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AVqaHDw5JTyD6G/KstXA8YMPKkkGxBQs48DREFRZCiREHiU0PjgmD4OluxqV/X1
////tZao6WI8D0DqlMOEY9HPFUup5r9J6r6WV9WnV5i4aNGarHi67Ld1btxVwyy
hOLPkTRPAoo4Emg1JFaADaKWOmB/bgsqTJS//NoxNkzI95ufvaQXRS8Bnt8HKU0
Y6HIhDgMBD8tuYEB4YCYCYCjspnHZa7SRNpTW2Yua/oOAizG7mAQGnWlnLLMAP3KZ
bWH+rzGFsGcOdcPINmVPud456VV/gN7+BPKxw4EQ/IaEMbxiZHicY40DLU9vJ8R
N7xWGyz5iwuyxpHK2PLWdhjoyHAhvlXFfoQStLNbYym+fZOGFCx8GicSVOiKr7a
hMqHvkLTjaeheB9m8VhLzgC/N44VtTp4+jyQtWk7nbXNgFDCSiMPvPbFZsoSSKm
kLTGI0pQ//OIxNc/A/5l3OPTPT6zNqygnPJylDc9S3fPxzfkqz+/4xxreqdk7IH
HTYz4rs1P1B3AK+Hhm7/bd2ISaKGrlQqVCS+mCmywoWTRTqE7lzBYnynhsFGxMo
YPUtj/URWoSVKqjn9GZGmr5ZYb+7s1ttkp2JUI9R2Q4ZUnJZT861A6OpVUlVm5h
DCpq0VgsiEqOChYESOAknkjP7vP/bzMbTMR/oK0jVrQI7KhzaSurV65puTFSwpI
kmRZJ3x6258kZJet5GcbamWS3e1O2N8lyJ1pESM4pKNpP4U2x8d37+dl1NJn14h
HAro6cSCjjtxHhPLAPeURZ++stuwTMfqISTEXYdRkkIHEcTCXIvoGTg9Fx2ZoWs
PnJ7WBdCewEMDp//NYxO4v8+p2fnsNLe3ZnEMdVB82uxD3KS27drDoyEpglG659
1UYwPitItOoolBaB5IGq8Tyyvn6cFqy2Z/NM9UegkUa3NOCnOSk4jn3pFzWS5ps
Ysk1PyJmnoI3szV7t1OVvx28+n7U3lvD55+MzbmfzkbaPe8qX/dqqkqdne3/8wX
vc3D3ueJNy12iDEmoMtVALT7f+yNay/DLSRQUmLHRnce7MExGiJR6XEZ8wBBGVH
R4//NoxNUsi+5mfnsMnYFxeJRZlg2egEkq1aH4mrHkKidCi0pIeBIWcGtoap5Jr
WMD4qGLERY0MFRr05bQHlWsCa7KFiWogerxEsT7FFcpudnG81A7i7H2nULFTz1t
Esvp71rCrxd3HdNWOmiY7iai8vXghX1guRx6wxV9aS9urx7TVqOu+7h6iBEamdS
g/U8WMFspmJuoKVR2QgBNYeYfeufXD7kCIixR6DSUIXTuAgEag0aJ5PWpS2kJKe
hxRCJorFy5cYkvV6Q9iEPOLWRBsliB42SZq0dg//NYxO0rrBZGXMMQXIoMLScmo
ogSrlM1Dkj1HOcKNKZJ4tVyml1kkZ2vrdGU+UHaEMJct4u4OKum+tKexc7qWhRs
JZitnKbuW+4W1WtGm1vOVs2h77aVrJtPzX3ZnIfH2pK24zLXP1e5rzP3Z93cvME
p10zDWKsvbKa/LMX1swArf//82laiCZ6JJbcsiCXiSU9pVGabzqg/virToVJi6I
JscqoCQQjo6UpoystPC3E4UFzi//NYxOUsBAZGfMMWYHt5UdGSukC4T4fO6h7S
tHwRHoCypKmHtktvAVEs4JdPjB8SrJK55rxj8lJqBW9l2qtlsrlb8aIqDpZ0ujD
PMQx3k4ra2lEos2b2zZ/725uP8p5xjZ7tsd/T7Dd5Sq3nJ6cEf6duiVFF2/rP7U
22l8Ze0jpRaOvRmjxspdSIO3doZ/bbJJFKqVMnhvEuSJ0xAiCSMlRLiUs0qKVDR
JrTlALB9ar/DMz//NYxNwsc+46XMMMfTZ0WKocNN5vaaa4KrWmk2HKaVU2Ba+V
QOjpVWaRUVNpvwWDrUoPh7fBR01lHcMzMNFnrJN9fZttYXla+Vyha12mlppNg6+V
WlqGZVpV5WlqGuvqYOmiroqmmLJFebVZVVFVnmmaCjv/a9WklVFRzRvGm5VMQU1
FMy45OS41VVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVV
VV//NYxNEnK+4+4fnpQTVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVV
VVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVV
VVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVV
VVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVV//MYxNsAAA
P8AAAAAFVVVVVVVVVVVVVVVVVVVVVVVVVVVV" id="142"/>
    </item>
  </list>
</sounds>

```xml
<blocks/>
<variables/>
<scripts>
  <script x="131.00000000000006" y="10">
    <block s="receiveKey">
      <l>
        <option>space</option>
      </l>
    </block>
    <block s="doSetVar">
      <l>D</l>
      <block s="reportNewList">
        <list>
          <block s="reportNewList">
            <list>
              <l>2</l>
              <l>3</l>
              <l>1</l>
            </list>
          </block>
          <block s="reportNewList">
            <list>
              <l>1</l>
              <l>2</l>
              <l>3</l>
            </list>
          </block>
          <block s="reportNewList">
            <list>
              <l>3</l>
              <l>1</l>
              <l>2</l>
            </list>
          </block>
        </list>
      </block>
    </block>
    <block s="doSetVar">
      <l>winner</l>
      <block s="reportNewList">
        <list>
          <l>humain</l>
          <l>personne</l>
          <l>robot</l>
        </list>
      </block>
    </block>
    <block s="doSetVar">
      <l>position</l>
      <block s="reportNewList">
        <list>
          <l>pierre</l>
          <l>feuille</l>
          <l>ciseaux</l>
        </list>
      </block>
    </block>
  </script>
  <script x="332.9999999999998" y="219.0000000000001">
    <block s="doSetVar">
      <l>choix_R</l>
```

```xml
        <block s="reportListItem">
          <block var="robot"/>
          <block var="position"/>
        </block>
    </block>
</script>
<script x="157.00000000000006" y="246.0000000000001">
  <block s="receiveMessage">
    <l>combat</l>
  </block>
  <block s="doSetVar">
    <l>gain</l>
    <block s="reportListItem">
      <block var="robot"/>
      <block s="reportListItem">
        <block var="humain"/>
        <block var="D"/>
      </block>
    </block>
  </block>
  <block s="doSayFor">
    <block s="reportJoinWords">
      <list>
        <l>vainqueur : </l>
        <block s="reportListItem">
          <block var="gain"/>
          <block var="winner"/>
        </block>
      </list>
    </block>
    <l>2</l>
  </block>
  <block s="doIf">
    <block s="reportEquals">
      <block var="gain"/>
      <l>1</l>
    </block>
    <script>
      <block s="doBroadcast">
        <l>humainWins</l>
      </block>
    </script>
  </block>
  <block s="doIf">
    <block s="reportEquals">
      <block var="gain"/>
      <l>3</l>
    </block>
    <script>
      <block s="doBroadcast">
        <l>robotWins</l>
      </block>
    </script>
  </block>
  <block s="doIf">
    <block s="reportEquals">
      <block var="gain"/>
      <l>2</l>
    </block>
    <script>
      <block s="doPlaySoundUntilDone">
```

```xml
          <l>playagain</l>
        </block>
        <custom-block s="initialisation"/>
      </script>
    </block>
  </script>
  </scripts>
</sprite>
<sprite name="Sprite" idx="1" x="-160.56521739130426"
y="-91.695652173913" heading="217" scale="1" volume="100" pan="0"
rotation="1" draggable="true" costume="0"
color="145.35,43.605000000000004,0,1" pen="tip" id="249">
  <costumes>
    <list struct="atomic" id="250"/>
  </costumes>
  <sounds>
    <list struct="atomic" id="251"/>
  </sounds>
  <blocks/>
  <variables/>
  <scripts>
    <script x="10" y="10">
      <custom-block s="set $robot host to %s">
        <l>lily.local</l>
      </custom-block>
    </script>
    <script x="221.53333282470714" y="15.000002000000023">
      <custom-block s="$robot test connection"/>
    </script>
    <script x="383.0000000000001" y="13.000000000000028">
      <custom-block s="Leap $flag"/>
    </script>
    <script x="135.0000000000001" y="70.83333933333336">
      <custom-block s="$robot set motor(s) %s %txt">
        <l>m5</l>
        <l>compliant</l>
      </custom-block>
    </script>
    <script x="27" y="128.0000000000001">
      <block s="receiveKey">
        <l>
          <option>space</option>
        </l>
      </block>
      <custom-block s="$robot set motor(s) %s %txt">
        <custom-block s="$robot all motors"/>
        <l>stiff</l>
      </custom-block>
      <custom-block s="initialisation"/>
    </script>
    <script x="467.3505879375001" y="21.833339333333356">
      <custom-block s="Detection extension doigt %n">
        <l>1</l>
      </custom-block>
    </script>
    <script x="295.0000000000001" y="114.00000000000006">
      <block s="receiveMessage">
        <l>listen</l>
      </block>
      <block s="doSetVar">
        <l>choix</l>
```

```xml
      <l>0</l>
    </block>
    <block s="doUntil">
      <block s="reportNot">
        <block s="reportEquals">
          <block var="choix"/>
          <l>0</l>
        </block>
      </block>
      <script>
        <block s="doIf">
          <block s="reportAnd">
            <custom-block s="Detection extension doigt %n">
              <l>2</l>
            </custom-block>
            <block s="reportAnd">
              <custom-block s="Detection extension doigt %n">
                <l>3</l>
              </custom-block>
              <block s="reportNot">
                <custom-block s="Detection extension doigt %n">
                  <l>5</l>
                </custom-block>
              </block>
            </block>
          </block>
          <script>
            <block s="doSetVar">
              <l>humain</l>
              <l>3</l>
            </block>
            <block s="doSetVar">
              <l>choix</l>
              <block s="reportListItem">
                <block var="humain"/>
                <block var="position"/>
              </block>
            </block>
          </script>
        </block>
        <block s="doIf">
          <block s="reportAnd">
            <custom-block s="Detection extension doigt %n">
              <l>4</l>
            </custom-block>
            <custom-block s="Detection extension doigt %n">
              <l>5</l>
            </custom-block>
          </block>
          <script>
            <block s="doSetVar">
              <l>humain</l>
              <l>2</l>
            </block>
            <block s="doSetVar">
              <l>choix</l>
              <block s="reportListItem">
                <block var="humain"/>
                <block var="position"/>
              </block>
            </block>
          </block>
```

```xml
              </script>
            </block>
            <block s="doIf">
              <block s="reportAnd">
                <block s="reportGreaterThan">
                  <custom-block s="Leap number of hands"/>
                  <l>0</l>
                </block>
                <block s="reportAnd">
                  <block s="reportNot">
                    <custom-block s="Detection extension doigt %n">
                      <l>2</l>
                    </custom-block>
                  </block>
                  <block s="reportNot">
                    <custom-block s="Detection extension doigt %n">
                      <l>5</l>
                    </custom-block>
                  </block>
                </block>
              </block>
              <script>
                <block s="doSetVar">
                  <l>humain</l>
                  <l>1</l>
                </block>
                <block s="doSetVar">
                  <l>choix</l>
                  <block s="reportListItem">
                    <block var="humain"/>
                    <block var="position"/>
                  </block>
                </block>
              </script>
            </block>
          </script>
        </block>
        <block s="doBroadcast">
          <l>combat</l>
        </block>
      </script>
      <script x="29" y="275">
        <custom-block s="$robot set motor(s) %s %txt">
          <custom-block s="$robot all motors"/>
          <l>compliant</l>
        </custom-block>
      </script>
    </scripts>
  </sprite>
</sprites>
</stage>
<hidden/>
<headers/>
<code>
  <delim/>
  <string><#1></string>
  <parms_list>Context >> a CommandBlockMorph ("script variables
  %scriptVars...") a VariableFrame {}</parms_list>
  <tempvars_delim>Context >> a CommandBlockMorph ("script variables
  %scriptVars...") a VariableFrame {}</tempvars_delim>
```

```
    <doSetVar>Context >> a CommandBlockMorph ("script variables
    %scriptVars...") a VariableFrame {}</doSetVar>
</code>
<blocks>
  <block-definition s="$robot motors in group %'alias'" type="reporter"
  category="sensing">
    <comment x="0" y="0" w="302" collapsed="false">Return a list of motors
    which are grouped in the input alias</comment>
    <header/>
    <code/>
    <translations/>
    <inputs>
      <input type="%txt">group_name</input>
    </inputs>
    <script>
      <block s="doDeclareVariables">
        <list>
          <l>output</l>
        </list>
      </block>
      <block s="doSetVar">
        <l>output</l>
        <block s="reportURL">
          <block s="reportJoinWords">
            <list>
              <custom-block s="$robot robot URL"/>
              <l>/motors/</l>
              <block var="alias"/>
            </list>
          </block>
        </block>
      </block>
      <block s="doIfElse">
        <block s="reportEquals">
          <block var="output"/>
          <l/>
        </block>
        <script>
          <custom-block s="$robot popup %txt">
            <block s="reportJoinWords">
              <list>
                <l>Group < </l>
                <block var="alias"/>
                <l> > is not in the aivaible groups of your robot : </l>
                <custom-block s="combine with %repRing items of %l">
                  <block s="reifyReporter">
                    <autolambda>
                      <custom-block s="join words %mult%txt">
                        <list>
                          <l/>
                          <l/>
                        </list>
                      </custom-block>
                    </autolambda>
                    <list/>
                  </block>
                  <custom-block s="$robot all motors groups"/>
                </custom-block>
              </list>
            </block>
          </custom-block>
```

```xml
        <block s="doReport">
          <l/>
        </block>
      </script>
      <script>
        <block s="doReport">
          <block s="reportTextSplit">
            <block var="output"/>
            <l>/</l>
          </block>
        </block>
      </script>
    </block>
  </script>
</block-definition>
<block-definition s="$robot all motors" type="reporter"
category="sensing">
  <comment x="0" y="0" w="90" collapsed="false">Return a list of all
  available motors</comment>
  <header/>
  <code/>
  <translations/>
  <inputs/>
  <script>
    <block s="doReport">
      <custom-block s="$robot motors in group %txt">
        <l>motors</l>
      </custom-block>
    </block>
  </script>
</block-definition>
<block-definition s="$robot get all motors positions" type="reporter"
category="sensing">
  <comment x="0" y="0" w="170" collapsed="false">Return a list of all
  motors present positions, in the order of "$robot all motors" block
  list. Usefull for some advanced programs.</comment>
  <header/>
  <code/>
  <translations/>
  <inputs/>
  <script>
    <block s="doReport">
      <block s="reportTextSplit">
        <block s="reportURL">
          <block s="reportJoinWords">
            <list>
              <custom-block s="$robot robot URL"/>
              <l>/motors/get/positions</l>
            </list>
          </block>
        </block>
        <l>;</l>
      </block>
    </block>
  </script>
</block-definition>
<block-definition s="if %'test' then %'true' else %'false'"
type="reporter" category="control">
  <header/>
  <code/>
  <translations/>
```

```
<inputs>
  <input type="%b"/>
  <input type="%anyUE"/>
  <input type="%anyUE"/>
</inputs>
<script>
  <block s="doIfElse">
    <block var="test"/>
    <script>
      <block s="doReport">
        <block s="evaluate">
          <block var="true"/>
          <list/>
        </block>
      </block>
    </script>
    <script>
      <block s="doReport">
        <block s="evaluate">
          <block var="false"/>
          <list/>
        </block>
      </block>
    </script>
  </block>
</script>
</block-definition>
<block-definition s="for %'i' = %'start' to %'end' %'action'"
type="command" category="control">
  <header/>
  <code/>
  <translations/>
  <inputs>
    <input type="%upvar"/>
    <input type="%n">1</input>
    <input type="%n">10</input>
    <input type="%cs"/>
  </inputs>
  <script>
    <block s="doDeclareVariables">
      <list>
        <l>step</l>
        <l>tester</l>
      </list>
    </block>
    <block s="doIfElse">
      <block s="reportGreaterThan">
        <block var="start"/>
        <block var="end"/>
      </block>
      <script>
        <block s="doSetVar">
          <l>step</l>
          <l>-1</l>
        </block>
        <block s="doSetVar">
          <l>tester</l>
          <block s="reifyReporter">
            <autolambda>
              <block s="reportLessThan">
                <block var="i"/>
```

```
                        <block var="end"/>
                    </block>
                </autolambda>
                <list/>
            </block>
        </block>
    </script>
    <script>
        <block s="doSetVar">
            <l>step</l>
            <l>1</l>
        </block>
        <block s="doSetVar">
            <l>tester</l>
            <block s="reifyReporter">
                <autolambda>
                    <block s="reportGreaterThan">
                        <block var="i"/>
                        <block var="end"/>
                    </block>
                </autolambda>
                <list/>
            </block>
        </block>
    </script>
</block>
<block s="doSetVar">
    <l>i</l>
    <block var="start"/>
</block>
<block s="doUntil">
    <block s="evaluate">
        <block var="tester"/>
        <list/>
    </block>
    <script>
        <block s="doRun">
            <block var="action"/>
            <list/>
        </block>
        <block s="doChangeVar">
            <l>i</l>
            <block var="step"/>
        </block>
    </script>
</block>
    </script>
</block-definition>
<block-definition s="$robot get %'register' of motor(s) %'motors'"
type="reporter" category="sensing">
    <comment x="0" y="0" w="230.00000099999988" collapsed="false">Get a
    defined <register> <value> of one motor. Example of some registers :
    torque_limit, angle_limit, present_temperature, present_position...
    For more informations about registers, look at the online
    documentation : http://$robot-project.github.io/pypot/ </comment>
    <header/>
    <code/>
    <translations/>
    <inputs>
        <input type="%s">
            present_position
```

```xml
      <options>position=present_position speed=present_speed load
      (force)=present_load temperature=present_temperature
      voltage=present_voltage</options>
    </input>
    <input type="%s">motor_name</input>
  </inputs>
  <script>
    <block s="doDeclareVariables">
      <list>
        <l>output</l>
        <l>complete motor list</l>
      </list>
    </block>
    <block s="doSetVar">
      <l>complete motor list</l>
      <custom-block s="$robot all motors"/>
    </block>
    <block s="doIf">
      <block s="reportNot">
        <block s="reportIsA">
          <block var="motors"/>
          <l>
            <option>list</option>
          </l>
        </block>
      </block>
      <script>
        <block s="doIfElse">
          <block s="reportOr">
            <block s="reportIsIdentical">
              <block var="motors"/>
              <l>all</l>
            </block>
            <block s="reportIsIdentical">
              <block var="motors"/>
              <l/>
            </block>
          </block>
          <script>
            <block s="doSetVar">
              <l>motors</l>
              <custom-block s="$robot all motors"/>
            </block>
          </script>
          <script>
            <block s="doSetVar">
              <l>motors</l>
              <block s="reportTextSplit">
                <block var="motors"/>
                <l>
                  <option>whitespace</option>
                </l>
              </block>
            </block>
          </script>
        </block>
      </script>
    </block>
    <custom-block s="for each %upvar of %l %cs">
      <l>m</l>
      <block var="motors"/>
```

```xml
<script>
  <block s="doIf">
    <block s="reportNot">
      <block s="reportListContainsItem">
        <block var="complete motor list"/>
        <block var="m"/>
      </block>
    </block>
    <script>
      <custom-block s="$robot popup %txt">
        <block s="reportJoinWords">
          <list>
            <l>Motor < </l>
            <block var="m"/>
            <l> > is not in the available motors of your robot : </l>
            <custom-block s="combine with %repRing items of %l">
              <block s="reifyReporter">
                <autolambda>
                  <custom-block s="join words %mult%txt">
                    <list>
                      <l/>
                      <l/>
                    </list>
                  </custom-block>
                </autolambda>
                <list/>
              </block>
              <block var="complete motor list"/>
            </custom-block>
          </list>
        </block>
      </custom-block>
      <block s="doReport">
        <l/>
      </block>
    </script>
  </block>
</script>
</custom-block>
<block s="doIfElse">
  <block s="reportEquals">
    <block s="reportListLength">
      <block var="motors"/>
    </block>
    <l>1</l>
  </block>
  <script>
    <block s="doReport">
      <block s="reportURL">
        <block s="reportJoinWords">
          <list>
            <custom-block s="$robot robot URL"/>
            <l>/motors/</l>
            <custom-block s="combine with %repRing items of %l">
              <block s="reifyReporter">
                <autolambda>
                  <block s="reportJoinWords">
                    <list>
                      <block var="#1"/>
                      <l>;</l>
                      <block var="#2"/>
```

```
                </list>
              </block>
            </autolambda>
            <list>
              <l>#1</l>
              <l>#2</l>
            </list>
          </block>
          <block var="motors"/>
        </custom-block>
        <l>/get/</l>
        <block var="register"/>
      </list>
    </block>
  </block>
</block>
      </script>
      <script>
        <block s="doReport">
          <block s="reportTextSplit">
            <block s="reportURL">
              <block s="reportJoinWords">
                <list>
                  <custom-block s="$robot robot URL"/>
                  <l>/motors/</l>
                  <custom-block s="combine with %repRing items of %l">
                    <block s="reifyReporter">
                      <autolambda>
                        <block s="reportJoinWords">
                          <list>
                            <block var="#1"/>
                            <l>;</l>
                            <block var="#2"/>
                          </list>
                        </block>
                      </autolambda>
                      <list>
                        <l>#1</l>
                        <l>#2</l>
                      </list>
                    </block>
                    <block var="motors"/>
                  </custom-block>
                  <l>/get/</l>
                  <block var="register"/>
                </list>
              </block>
            </block>
            <l>;</l>
          </block>
        </block>
      </script>
    </block>
  </script>
</block-definition>
<block-definition s="$robot index of motor %'motor'" type="reporter"
category="sensing">
  <comment x="0" y="0" w="109" collapsed="false">Return the index of a
  motor name in the "$robot all motors" block list</comment>
  <header/>
  <code/>
```

```xml
<translations/>
<inputs>
  <input type="%txt">motor_name</input>
</inputs>
<script>
  <block s="doDeclareVariables">
    <list>
      <l>i</l>
      <l>complete motor list</l>
    </list>
  </block>
  <block s="doSetVar">
    <l>complete motor list</l>
    <custom-block s="$robot all motors"/>
  </block>
  <block s="doSetVar">
    <l>i</l>
    <l>1</l>
  </block>
  <custom-block s="for each %upvar of %l %cs">
    <l>m</l>
    <block var="complete motor list"/>
    <script>
      <block s="doIf">
        <block s="reportEquals">
          <block var="m"/>
          <block var="motor"/>
        </block>
        <script>
          <block s="doReport">
            <block var="i"/>
          </block>
        </script>
      </block>
      <block s="doChangeVar">
        <l>i</l>
        <l>1</l>
      </block>
    </script>
  </custom-block>
  <custom-block s="$robot popup %txt">
    <block s="reportJoinWords">
      <list>
        <l>Motor < </l>
        <block var="motor"/>
        <l>> is not in the aivaible motors of your robot : </l>
        <custom-block s="combine with %repRing items of %l">
          <block s="reifyReporter">
            <autolambda>
              <custom-block s="join words %mult%txt">
                <list>
                  <l/>
                  <l/>
                </list>
              </custom-block>
            </autolambda>
            <list/>
          </block>
          <block var="complete motor list"/>
        </custom-block>
      </list>
```

```
        </block>
      </custom-block>
      <block s="doReport">
        <l/>
      </block>
    </script>
  </block-definition>
  <block-definition s="$robot robot URL" type="reporter"
category="sensing">
    <comment x="0" y="0" w="117" collapsed="false">For internal use
    only</comment>
    <header/>
    <code/>
    <translations/>
    <inputs/>
    <script>
      <block s="doReport">
        <block s="reportJoinWords">
          <list>
            <block var="host"/>
            <l>:</l>
            <block var="port"/>
          </list>
        </block>
      </block>
    </script>
  </block-definition>
  <block-definition s="$robot set motor(s) %'motor' %'compliant'"
type="command" category="control">
    <comment x="0" y="0" w="230.00000099999988"
    collapsed="false">Compliance property make motors activly become soft
    and movable. You need to activate the compliance if you want to record
    a movement by demonstration. The motor(s) input can accept : - string
    of a motor name - string of many motors separed with spaces - a Snap!
    list of motors like the reporter block "$robot all motors"</comment>
    <header/>
    <code/>
    <translations/>
    <inputs>
      <input type="%s">motor_name</input>
      <input type="%txt" readonly="true">
        compliant
        <options>compliant stiff</options>
      </input>
    </inputs>
    <script>
      <block s="doDeclareVariables">
        <list>
          <l>comp</l>
        </list>
      </block>
      <block s="doSetVar">
        <l>comp</l>
        <custom-block s="if %b then %anyUE else %anyUE">
          <block s="reportOr">
            <block s="reportEquals">
              <block var="compliant"/>
              <l>compliant</l>
            </block>
            <block var="compliant"/>
          </block>
```

```xml
        <l>1</l>
        <l>0</l>
      </custom-block>
    </block>
    <custom-block s="$robot set %txt of motor(s) %s to %s">
      <l>compliant</l>
      <block var="motor"/>
      <block var="comp"/>
    </custom-block>
  </script>
</block-definition>
<block-definition s="$robot set position(s) %'position' of motor(s)
%'motors' in %'duration' seconds | wait ? %'wait'" type="command"
category="control">
  <comment x="0" y="0" w="230.00000099999988" collapsed="false">set
  motor to the desired position (angle) in the desired time. The
  motor(s) input can accept : - string of a motor name - string of many
  motors separed with spaces - a Snap! list of motors like the reporter
  block "$robot all motors"</comment>
  <header/>
  <code/>
  <translations/>
  <inputs>
    <input type="%n">0</input>
    <input type="%s">motor_name</input>
    <input type="%n">2</input>
    <input type="%boolUE"/>
  </inputs>
  <script>
    <block s="doDeclareVariables">
      <list>
        <l>output</l>
        <l>complete motor list</l>
        <l>i</l>
        <l>mot_pos</l>
        <l>querry_URL</l>
      </list>
    </block>
    <block s="doSetVar">
      <l>mot_pos</l>
      <block s="reportNewList">
        <list/>
      </block>
    </block>
    <block s="doSetVar">
      <l>i</l>
      <l>1</l>
    </block>
    <block s="doSetVar">
      <l>complete motor list</l>
      <custom-block s="$robot all motors"/>
    </block>
    <block s="doIf">
      <block s="reportNot">
        <block s="reportIsA">
          <block var="motors"/>
          <l>
            <option>list</option>
          </l>
        </block>
      </block>
    </block>
```

```
<script>
  <block s="doIfElse">
    <block s="reportIsIdentical">
      <block var="motors"/>
      <l/>
    </block>
    <script>
      <block s="doSetVar">
        <l>motors</l>
        <custom-block s="$robot all motors"/>
      </block>
    </script>
    <script>
      <block s="doSetVar">
        <l>motors</l>
        <block s="reportTextSplit">
          <block var="motors"/>
          <l>
            <option>whitespace</option>
          </l>
        </block>
      </block>
    </script>
  </block>
</script>
</block>
<custom-block s="for each %upvar of %l %cs">
  <l>m</l>
  <block var="motors"/>
  <script>
    <block s="doIfElse">
      <block s="reportNot">
        <block s="reportListContainsItem">
          <block var="complete motor list"/>
          <block var="m"/>
        </block>
      </block>
      <script>
        <custom-block s="$robot popup %txt">
          <block s="reportJoinWords">
            <list>
              <l>Motor </l>
              <block var="m"/>
              <l> is not in the aivaible motors of your robot : </l>
              <custom-block s="combine with %repRing items of %l">
                <block s="reifyReporter">
                  <autolambda>
                    <custom-block s="join words %mult%txt">
                      <list>
                        <l/>
                        <l/>
                      </list>
                    </custom-block>
                  </autolambda>
                  <list/>
                </block>
                <block var="complete motor list"/>
              </custom-block>
            </list>
          </block>
        </custom-block>
```

```
            <block s="doReport">
              <l/>
            </block>
          </script>
          <script>
            <block s="doIfElse">
              <block s="reportIsA">
                <block var="position"/>
                <l>
                  <option>list</option>
                </l>
              </block>
              <script>
                <block s="doAddToList">
                  <block s="reportJoinWords">
                    <list>
                      <block var="m"/>
                      <l>:</l>
                      <block s="reportListItem">
                        <block var="i"/>
                        <block var="position"/>
                      </block>
                    </list>
                  </block>
                  <block var="mot_pos"/>
                </block>
              </script>
              <script>
                <block s="doAddToList">
                  <block s="reportJoinWords">
                    <list>
                      <block var="m"/>
                      <l>:</l>
                      <block var="position"/>
                    </list>
                  </block>
                  <block var="mot_pos"/>
                </block>
              </script>
            </block>
          </script>
        </block>
        <block s="doChangeVar">
          <l>i</l>
          <l>1</l>
        </block>
      </script>
    </custom-block>
    <block s="doSetVar">
      <l>querry_URL</l>
      <block s="reportURL">
        <block s="reportJoinWords">
          <list>
            <custom-block s="$robot robot URL"/>
            <l>/motors/set/goto/</l>
            <block s="reportJoinWords">
              <list>
                <custom-block s="combine with %repRing items of %l">
                  <block s="reifyReporter">
                    <autolambda>
                      <block s="reportJoinWords">
```

```xml
                              <list>
                                <block var="#1"/>
                                <l>:</l>
                                <block var="duration"/>
                                <l>;</l>
                                <block var="#2"/>
                              </list>
                            </block>
                          </autolambda>
                          <list>
                            <l>#1</l>
                            <l>#2</l>
                          </list>
                        </block>
                        <block var="mot_pos"/>
                      </custom-block>
                      <l>:</l>
                      <block var="duration"/>
                    </list>
                  </block>
                </list>
              </block>
            </block>
          </block>
          <block s="doIfElse">
            <block s="evaluate">
              <block var="wait"/>
              <list/>
            </block>
            <script>
              <block s="doRun">
                <block s="reifyReporter">
                  <autolambda>
                    <block var="querry_URL"/>
                  </autolambda>
                  <list/>
                </block>
                <list/>
              </block>
              <block s="doWait">
                <block var="duration"/>
              </block>
            </script>
            <script>
              <block s="doReport">
                <block var="querry_URL"/>
              </block>
            </script>
          </block>
        </script>
</block-definition>
<block-definition s="$robot reset %'simulation'" type="command"
category="control">
  <comment x="0" y="0" w="182" collapsed="false">Reset the simulation in
  V-rep. It is usefull if you have connection issues with V-rep.
  </comment>
  <header/>
  <code/>
  <translations/>
  <inputs>
    <input type="%s" readonly="true">
```

```
        robot
      <options>robot simulation</options>
    </input>
  </inputs>
  <script>
    <block s="doIfElse">
      <block s="reportEquals">
        <block var="simulation"/>
        <l>robot</l>
      </block>
      <script>
        <block s="fork">
          <block s="reifyReporter">
            <autolambda>
              <block s="evaluate">
                <block s="reifyReporter">
                  <autolambda>
                    <block s="reportURL">
                      <block s="reportJoinWords">
                        <list>
                          <block var="host"/>
                          <l>/services.php?python=restart</l>
                        </list>
                      </block>
                    </block>
                  </autolambda>
                  <list/>
                </block>
                <list/>
              </block>
            </autolambda>
            <list/>
          </block>
          <list/>
        </block>
        <block s="fork">
          <block s="reifyReporter">
            <autolambda>
              <block s="evaluate">
                <block s="reifyReporter">
                  <autolambda>
                    <block s="reportURL">
                      <block s="reportJoinWords">
                        <list>
                          <block var="host"/>
                          <l>/reset</l>
                        </list>
                      </block>
                    </block>
                  </autolambda>
                  <list/>
                </block>
                <list/>
              </block>
            </autolambda>
            <list/>
          </block>
          <list/>
        </block>
      </script>
      <script>
```

```
              <block s="doReport">
                <block s="reportURL">
                  <block s="reportJoinWords">
                    <list>
                      <custom-block s="$robot robot URL"/>
                      <l>/reset-simulation</l>
                    </list>
                  </block>
                </block>
              </block>
            </script>
          </block>
        </script>
      </block-definition>
      <block-definition s="$robot all recorded moves" type="reporter"
      category="sensing">
        <comment x="0" y="0" w="164" collapsed="false">Return a list of all
        previous records filename.</comment>
        <header/>
        <code/>
        <translations/>
        <inputs/>
        <script>
          <block s="doReport">
            <block s="reportTextSplit">
              <block s="reportURL">
                <block s="reportJoinWords">
                  <list>
                    <custom-block s="$robot robot URL"/>
                    <l>/primitive/MovePlayer</l>
                  </list>
                </block>
              </block>
              <l>/</l>
            </block>
          </block>
        </script>
      </block-definition>
      <block-definition s="append %'lists'" type="reporter" category="lists">
        <comment x="0" y="0" w="287" collapsed="false">Take any number of
        input lists, and create a new list containing the items of the input
        lists. So APPEND [A B] [C D] where the [,,,] are lists reports the
        list [A B C D] not [[A B] [C D]].</comment>
        <header/>
        <code/>
        <translations/>
        <inputs>
          <input type="%mult%l"/>
        </inputs>
        <script>
          <block s="doWarp">
            <script>
              <block s="doIf">
                <block s="reportEquals">
                  <block var="lists"/>
                  <block s="reportNewList">
                    <list/>
                  </block>
                </block>
                <script>
                  <block s="doReport">
```

```xml
          <block s="reportNewList">
            <list/>
          </block>
        </block>
      </block>
    </script>
  </block>
  <block s="doIf">
    <block s="reportEquals">
      <block s="reportListLength">
        <block var="lists"/>
      </block>
      <l>1</l>
    </block>
    <script>
      <block s="doReport">
        <block s="reportListItem">
          <l>1</l>
          <block var="lists"/>
        </block>
      </block>
    </script>
  </block>
  <block s="doIf">
    <block s="reportEquals">
      <block s="reportListItem">
        <l>1</l>
        <block var="lists"/>
      </block>
      <block s="reportNewList">
        <list/>
      </block>
    </block>
    <script>
      <block s="doReport">
        <custom-block s="append %mult%l">
          <block s="reportCDR">
            <block var="lists"/>
          </block>
        </custom-block>
      </block>
    </script>
  </block>
  <block s="doReport">
    <block s="reportCONS">
      <block s="reportListItem">
        <l>1</l>
        <block s="reportListItem">
          <l>1</l>
          <block var="lists"/>
        </block>
      </block>
      <custom-block s="append %mult%l">
        <block s="reportCONS">
          <block s="reportCDR">
            <block s="reportListItem">
              <l>1</l>
              <block var="lists"/>
            </block>
          </block>
          <block s="reportCDR">
            <block var="lists"/>
```

```xml
            </block>
          </block>
        </custom-block>
      </block>
    </block>
  </script>
</block>
</script>
</block-definition>
<block-definition s="reverse %'data'" type="reporter" category="lists">
<comment x="0" y="0" w="223" collapsed="false">Reports a new list
containing the items of the input list, but in the opposite order.
</comment>
<header/>
<code/>
<translations/>
<inputs>
  <input type="%l"/>
</inputs>
<script>
  <block s="doDeclareVariables">
    <list>
      <l>helper</l>
    </list>
  </block>
  <block s="doSetVar">
    <l>helper</l>
    <block s="reifyScript">
      <script>
        <block s="doIf">
          <block s="reportEquals">
            <block var="input"/>
            <block s="reportNewList">
              <list/>
            </block>
          </block>
          <script>
            <block s="doReport">
              <block var="result"/>
            </block>
          </script>
        </block>
        <block s="doReport">
          <block s="evaluate">
            <block var="helper"/>
            <list>
              <block s="reportCDR">
                <block var="input"/>
              </block>
              <block s="reportCONS">
                <block s="reportListItem">
                  <l>1</l>
                  <block var="input"/>
                </block>
                <block var="result"/>
              </block>
            </list>
          </block>
        </block>
      </script>
      <list>
```

```xml
          <l>input</l>
          <l>result</l>
        </list>
      </block>
    </block>
    <block s="doWarp">
      <script>
        <block s="doReport">
          <block s="evaluate">
            <block var="helper"/>
            <list>
              <block var="data"/>
              <block s="reportNewList">
                <list/>
              </block>
            </list>
          </block>
        </block>
      </script>
    </block>
  </script>
</block-definition>
<block-definition s="remove duplicates from %'data'" type="reporter"
category="lists">
  <comment x="0" y="0" w="209" collapsed="false">Reports a new list
  whose items are the same as in the input list, except that if two or
  more equal items appear in the input list, only the last one is kept
  in the result.</comment>
  <header/>
  <code/>
  <translations/>
  <inputs>
    <input type="%l"/>
  </inputs>
  <script>
    <block s="doWarp">
      <script>
        <block s="doIf">
          <block s="reportEquals">
            <block var="data"/>
            <block s="reportNewList">
              <list/>
            </block>
          </block>
          <script>
            <block s="doReport">
              <block s="reportNewList">
                <list/>
              </block>
            </block>
          </script>
        </block>
        <block s="doIfElse">
          <block s="reportListContainsItem">
            <block s="reportCDR">
              <block var="data"/>
            </block>
            <block s="reportListItem">
              <l>1</l>
              <block var="data"/>
            </block>
```

```
          </block>
          <script>
            <block s="doReport">
              <custom-block s="remove duplicates from %l">
                <block s="reportCDR">
                  <block var="data"/>
                </block>
              </custom-block>
            </block>
          </script>
          <script>
            <block s="doReport">
              <block s="reportCONS">
                <block s="reportListItem">
                  <l>1</l>
                  <block var="data"/>
                </block>
                <custom-block s="remove duplicates from %l">
                  <block s="reportCDR">
                    <block var="data"/>
                  </block>
                </custom-block>
              </block>
            </block>
          </script>
        </block>
      </script>
    </block>
  </script>
</block-definition>
<block-definition s="sort %'data' ordering with %'function'"
type="reporter" category="lists">
  <comment x="0" y="0" w="204" collapsed="false">Reports a sorted
  version of the list in its first input slot, using the comparison
  function in the second input slot. For a list of numbers, using < as
  the comparison function will sort from low to high; using > will sort
  from high to low.</comment>
  <header/>
  <code/>
  <translations/>
  <inputs>
    <input type="%l"/>
    <input type="%predRing"/>
  </inputs>
  <script>
    <block s="doDeclareVariables">
      <list>
        <l>even items</l>
        <l>odd items</l>
        <l>merge</l>
      </list>
    </block>
    <block s="doSetVar">
      <l>odd items</l>
      <block s="reifyScript">
        <script>
          <block s="doIf">
            <block s="reportEquals">
              <l/>
              <block s="reportNewList">
                <list/>
```

```
          </block>
        </block>
        <script>
          <block s="doReport">
            <block s="reportNewList">
              <list/>
            </block>
          </block>
        </script>
      </block>
      <block s="doReport">
        <block s="reportCONS">
          <block s="reportListItem">
            <l>1</l>
            <l/>
          </block>
          <block s="evaluate">
            <block var="even items"/>
            <list>
              <block s="reportCDR">
                <l/>
              </block>
            </list>
          </block>
        </block>
      </block>
    </script>
    <list/>
  </block>
</block>
<block s="doSetVar">
  <l>even items</l>
  <block s="reifyScript">
    <script>
      <block s="doIf">
        <block s="reportEquals">
          <l/>
          <block s="reportNewList">
            <list/>
          </block>
        </block>
        <script>
          <block s="doReport">
            <block s="reportNewList">
              <list/>
            </block>
          </block>
        </script>
      </block>
      <block s="doReport">
        <block s="evaluate">
          <block var="odd items"/>
          <list>
            <block s="reportCDR">
              <l/>
            </block>
          </list>
        </block>
      </block>
    </script>
    <list/>
```

```
        </block>
      </block>
      <block s="doSetVar">
        <l>merge</l>
        <block s="reifyScript">
          <script>
            <block s="doIf">
              <block s="reportEquals">
                <block var="#1"/>
                <block s="reportNewList">
                  <list/>
                </block>
              </block>
              <script>
                <block s="doReport">
                  <block var="#2"/>
                </block>
              </script>
            </block>
            <block s="doIf">
              <block s="reportEquals">
                <block var="#2"/>
                <block s="reportNewList">
                  <list/>
                </block>
              </block>
              <script>
                <block s="doReport">
                  <block var="#1"/>
                </block>
              </script>
            </block>
            <block s="doIfElse">
              <block s="evaluate">
                <block var="function"/>
                <list>
                  <block s="reportListItem">
                    <l>1</l>
                    <block var="#1"/>
                  </block>
                  <block s="reportListItem">
                    <l>1</l>
                    <block var="#2"/>
                  </block>
                </list>
              </block>
              <script>
                <block s="doReport">
                  <block s="reportCONS">
                    <block s="reportListItem">
                      <l>1</l>
                      <block var="#1"/>
                    </block>
                    <block s="evaluate">
                      <block var="merge"/>
                      <list>
                        <block s="reportCDR">
                          <block var="#1"/>
                        </block>
                        <block var="#2"/>
                      </list>
```

```
              </block>
            </block>
          </block>
        </script>
        <script>
          <block s="doReport">
            <block s="reportCONS">
              <block s="reportListItem">
                <l>1</l>
                <block var="#2"/>
              </block>
              <block s="evaluate">
                <block var="merge"/>
                <list>
                  <block var="#1"/>
                  <block s="reportCDR">
                    <block var="#2"/>
                  </block>
                </list>
              </block>
            </block>
          </block>
        </script>
      </block>
    </script>
    <list>
      <l>#1</l>
      <l>#2</l>
    </list>
  </block>
</block>
<block s="doIf">
  <block s="reportEquals">
    <block var="data"/>
    <block s="reportNewList">
      <list/>
    </block>
  </block>
  <script>
    <block s="doReport">
      <block s="reportNewList">
        <list/>
      </block>
    </block>
  </script>
</block>
<block s="doIf">
  <block s="reportEquals">
    <block s="reportCDR">
      <block var="data"/>
    </block>
    <block s="reportNewList">
      <list/>
    </block>
  </block>
  <script>
    <block s="doReport">
      <block var="data"/>
    </block>
  </script>
</block>
```

```xml
        <block s="doReport">
          <block s="evaluate">
            <block var="merge"/>
            <list>
              <custom-block s="sort %l ordering with %predRing">
                <block s="evaluate">
                  <block var="odd items"/>
                  <list>
                    <block var="data"/>
                  </list>
                </block>
                <block var="function"/>
              </custom-block>
              <custom-block s="sort %l ordering with %predRing">
                <block s="evaluate">
                  <block var="even items"/>
                  <list>
                    <block var="data"/>
                  </list>
                </block>
                <block var="function"/>
              </custom-block>
            </list>
          </block>
        </block>
      </script>
    </block-definition>
    <block-definition s="$robot set %'register' of motor(s) %'motors' to
    %'value'" type="command" category="control">
      <comment x="0" y="0" w="230.00000099999988" collapsed="false">Set a
      defined <value> to a defined <register> of one or many motors. Example
      of some registers : torque_limit, angle_limit, safe_compliant,
      compliant... For more informations about registers, look at the online
      documentation : http://$robot-project.github.io/pypot/ The motor(s)
      input can accept : - string of a motor name - string of many motors
      separed with spaces - a Snap! list of motors like the reporter block
      "$robot all motors"</comment>
      <header/>
      <code/>
      <translations/>
      <inputs>
        <input type="%txt">
          <options>position=goal_position speed=moving_speed max
          torque(%)=torque_limit compliancy(True or
          False)=compliant</options>
        </input>
        <input type="%s">motor_name</input>
        <input type="%s">value(s)</input>
      </inputs>
      <script>
        <block s="doDeclareVariables">
          <list>
            <l>output</l>
            <l>complete motor list</l>
          </list>
        </block>
        <block s="doSetVar">
          <l>complete motor list</l>
          <custom-block s="$robot all motors"/>
        </block>
        <block s="doIf">
```

```xml
<block s="reportNot">
  <block s="reportIsA">
    <block var="motors"/>
    <l>
      <option>list</option>
    </l>
  </block>
</block>
<script>
  <block s="doIfElse">
    <block s="reportIsIdentical">
      <block var="motors"/>
      <l>all</l>
    </block>
    <script>
      <block s="doSetVar">
        <l>motors</l>
        <custom-block s="$robot all motors"/>
      </block>
    </script>
    <script>
      <block s="doSetVar">
        <l>motors</l>
        <block s="reportTextSplit">
          <block var="motors"/>
          <l>
            <option>whitespace</option>
          </l>
        </block>
      </block>
    </script>
  </block>
</script>
</block>
<custom-block s="for each %upvar of %l %cs">
  <l>m</l>
  <block var="motors"/>
  <script>
    <block s="doIf">
      <block s="reportNot">
        <block s="reportListContainsItem">
          <block var="complete motor list"/>
          <block var="m"/>
        </block>
      </block>
      <script>
        <custom-block s="$robot popup %txt">
          <block s="reportJoinWords">
            <list>
              <l>Motor < </l>
              <block var="m"/>
              <l> > is not in the aivaible motors of your robot : </l>
              <custom-block s="combine with %repRing items of %l">
                <block s="reifyReporter">
                  <autolambda>
                    <custom-block s="join words %mult%txt">
                      <list>
                        <l/>
                        <l/>
                      </list>
                    </custom-block>
```

```
              </autolambda>
              <list/>
            </block>
            <block var="complete motor list"/>
          </custom-block>
        </list>
      </block>
    </custom-block>
    <block s="doReport">
      <l/>
    </block>
  </script>
</block>
</script>
</custom-block>
<block s="doReport">
  <block s="reportURL">
    <block s="reportJoinWords">
      <list>
        <custom-block s="$robot robot URL"/>
        <l>/motors/set/registers/</l>
        <block s="reportJoinWords">
          <list>
            <custom-block s="combine with %repRing items of %l">
              <block s="reifyReporter">
                <autolambda>
                  <block s="reportJoinWords">
                    <list>
                      <block var="#1"/>
                      <l>:</l>
                      <block var="register"/>
                      <l>:</l>
                      <block var="value"/>
                      <l>;</l>
                      <block var="#2"/>
                    </list>
                  </block>
                </autolambda>
                <list>
                  <l>#1</l>
                  <l>#2</l>
                </list>
              </block>
              <block var="motors"/>
            </custom-block>
            <l>:</l>
            <block var="register"/>
            <l>:</l>
            <block var="value"/>
          </list>
        </block>
      </list>
    </block>
  </block>
</block>
</script>
</block-definition>
<block-definition s="$robot get %'running' behaviours" type="reporter"
category="sensing">
  <header/>
  <code/>
```

```xml
    <translations/>
    <inputs>
      <input type="%s" readonly="true">
        all
        <options>all running</options>
      </input>
    </inputs>
    <script>
      <block s="doIfElse">
        <block s="reportIsIdentical">
          <block var="running"/>
          <l>running</l>
        </block>
        <script>
          <block s="doReport">
            <block s="reportTextSplit">
              <block s="reportURL">
                <block s="reportJoinWords">
                  <list>
                    <custom-block s="$robot robot URL"/>
                    <l>/primitives/</l>
                    <l>running</l>
                  </list>
                </block>
              </block>
              <l>/</l>
            </block>
          </block>
        </script>
        <script>
          <block s="doReport">
            <block s="reportTextSplit">
              <block s="reportURL">
                <block s="reportJoinWords">
                  <list>
                    <custom-block s="$robot robot URL"/>
                    <l>/primitives</l>
                    <l/>
                  </list>
                </block>
              </block>
              <l>/</l>
            </block>
          </block>
        </script>
      </block>
    </script>
</block-definition>
<block-definition s="$robot play move %'record_name' | speed x %'speed'"
type="reporter" category="control">
  <comment x="0" y="0" w="230.00000099999988" collapsed="false">Play the
  movement of a previous recorded move. The <record_name> input is the
  name of a .record filename which should be in the same directory where
  you started the web server (with the command "$robot-snap $robot-ergo"
  for example). You can change the play speed with the <speed> input.
  </comment>
  <header/>
  <code/>
  <translations/>
  <inputs>
    <input type="%txt">move_name</input>
```

```xml
        <input type="%n">1</input>
</inputs>
<script>
  <block s="doDeclareVariables">
    <list>
      <l>time</l>
    </list>
  </block>
  <block s="doDeclareVariables">
    <list>
      <l>wait</l>
    </list>
  </block>
  <block s="doSetVar">
    <l>wait</l>
    <block s="reportBoolean">
      <l>
        <bool>true</bool>
      </l>
    </block>
  </block>
  <block s="doIfElse">
    <block s="reportListContainsItem">
      <custom-block s="$robot all recorded moves"/>
      <block var="record_name"/>
    </block>
    <script>
      <block s="doSetVar">
        <l>time</l>
        <block s="reportURL">
          <block s="reportJoinWords">
            <list>
              <custom-block s="$robot robot URL"/>
              <l>/primitive/MovePlayer/</l>
              <block var="record_name"/>
              <l>/start/</l>
              <block var="speed"/>
            </list>
          </block>
        </block>
      </block>
      <block s="doIf">
        <block var="wait"/>
        <script>
          <block s="doWait">
            <block var="time"/>
          </block>
        </script>
        <comment w="90" collapsed="false">ugly wait to stop feature.
        TODO : change with a looking at running primitive</comment>
      </block>
    </script>
    <script>
      <custom-block s="$robot popup %txt">
        <block s="reportJoinWords">
          <list>
            <l>Error : <</l>
            <block var="record_name"/>
            <l>> is not is the avaible records (look at the block $robot
            all records to see all recorded moves) </l>
            <custom-block s="$robot all recorded moves"/>
```

```xml
          </list>
        </block>
      </custom-block>
    </script>
  </block>
  <block s="doReport">
    <block var="record_name"/>
  </block>
</script>
</block-definition>
<block-definition s="$robot sequence %'mov'" type="reporter"
category="control">
  <header/>
  <code/>
  <translations/>
  <inputs>
    <input type="%mult%repRing"/>
  </inputs>
  <script>
    <block s="doDeclareVariables">
      <list>
        <l>out</l>
      </list>
    </block>
    <block s="doSetVar">
      <l>out</l>
      <l/>
    </block>
    <custom-block s="for each %upvar of %l %cs">
      <l>item</l>
      <block var="mov"/>
      <script>
        <block s="doSetVar">
          <l>out</l>
          <block s="reportJoinWords">
            <list>
              <block s="reportCallCC">
                <block var="item"/>
              </block>
              <l>;</l>
              <block var="out"/>
            </list>
          </block>
        </block>
      </script>
    </custom-block>
    <block s="doReport">
      <block var="out"/>
    </block>
  </script>
</block-definition>
<block-definition s="$robot concurrent %'movements'" type="reporter"
category="control">
  <comment x="0" y="0" w="202" collapsed="false">All reports input are
  run concurently. You can use this block to play concurrently many
  recorded move</comment>
  <header/>
  <code/>
  <translations/>
  <inputs>
    <input type="%mult%repRing"/>
```

```
</inputs>
<script>
  <block s="doDeclareVariables">
    <list>
      <l>results</l>
      <l>iterator</l>
    </list>
  </block>
  <block s="doSetVar">
    <l>results</l>
    <block s="reportNewList">
      <list/>
    </block>
  </block>
  <block s="doSetVar">
    <l>iterator</l>
    <l>0</l>
  </block>
  <block s="doRepeat">
    <block s="reportListLength">
      <block var="movements"/>
    </block>
    <script>
      <block s="fork">
        <block s="reifyScript">
          <script>
            <block s="doAddToList">
              <block s="reportCallCC">
                <block s="reportListItem">
                  <block var="iterator"/>
                  <block var="movements"/>
                </block>
              </block>
              <block var="results"/>
            </block>
          </script>
          <list/>
        </block>
        <list/>
      </block>
      <block s="doChangeVar">
        <l>iterator</l>
        <l>1</l>
      </block>
      <custom-block s="yield"/>
    </script>
  </block>
  <block s="doWaitUntil">
    <block s="reportEquals">
      <block s="reportListLength">
        <block var="movements"/>
      </block>
      <block s="reportListLength">
        <block var="results"/>
      </block>
    </block>
  </block>
  <block s="doReport">
    <block var="results"/>
  </block>
</script>
```

```
</block-definition>
<block-definition s="map %'function' over %'lists'" type="reporter"
category="lists">
  <header/>
  <code/>
  <translations/>
  <inputs>
    <input type="%repRing"/>
    <input type="%mult%l"/>
  </inputs>
  <script>
    <block s="doWarp">
      <script>
        <block s="doDeclareVariables">
          <list>
            <l>mapone</l>
            <l>mapmany</l>
          </list>
        </block>
        <block s="doSetVar">
          <l>mapone</l>
          <block s="reifyScript">
            <script>
              <block s="doIf">
                <custom-block s="empty? %l">
                  <block var="data"/>
                </custom-block>
                <script>
                  <block s="doReport">
                    <block s="reportNewList">
                      <list/>
                    </block>
                  </block>
                </script>
              </block>
              <block s="doReport">
                <block s="reportCONS">
                  <block s="evaluate">
                    <block var="function"/>
                    <list>
                      <block s="reportListItem">
                        <l>1</l>
                        <block var="data"/>
                      </block>
                    </list>
                  </block>
                  <block s="evaluate">
                    <block var="mapone"/>
                    <list>
                      <block s="reportCDR">
                        <block var="data"/>
                      </block>
                    </list>
                  </block>
                </block>
              </block>
            </script>
            <list>
              <l>data</l>
            </list>
          </block>
```

```xml
        </block>
        <block s="doSetVar">
          <l>mapmany</l>
          <block s="reifyScript">
            <script>
              <block s="doIf">
                <custom-block s="empty? %l">
                  <block s="reportListItem">
                    <l>1</l>
                    <block var="data lists"/>
                  </block>
                </custom-block>
                <script>
                  <block s="doReport">
                    <block s="reportNewList">
                      <list/>
                    </block>
                  </block>
                </script>
              </block>
              <block s="doReport">
                <block s="reportCONS">
                  <block s="evaluate">
                    <block var="function"/>
                    <custom-block s="map %repRing over %mult%l">
                      <block s="reifyReporter">
                        <autolambda>
                          <block s="reportListItem">
                            <l>1</l>
                            <l/>
                          </block>
                        </autolambda>
                        <list/>
                      </block>
                      <list>
                        <block var="data lists"/>
                      </list>
                    </custom-block>
                  </block>
                  <block s="evaluate">
                    <block var="mapmany"/>
                    <list>
                      <custom-block s="map %repRing over %mult%l">
                        <block s="reifyReporter">
                          <autolambda>
                            <block s="reportCDR">
                              <l/>
                            </block>
                          </autolambda>
                          <list/>
                        </block>
                        <list>
                          <block var="data lists"/>
                        </list>
                      </custom-block>
                    </list>
                  </block>
                </block>
              </block>
            </script>
            <list>
```

```
            <l>data lists</l>
          </list>
        </block>
      </block>
      <block s="doIfElse">
        <custom-block s="empty? %l">
          <block s="reportCDR">
            <block var="lists"/>
          </block>
        </custom-block>
        <script>
          <block s="doReport">
            <block s="evaluate">
              <block var="mapone"/>
              <list>
                <block s="reportListItem">
                  <l>1</l>
                  <block var="lists"/>
                </block>
              </list>
            </block>
          </block>
        </script>
        <script>
          <block s="doReport">
            <block s="evaluate">
              <block var="mapmany"/>
              <list>
                <block var="lists"/>
              </list>
            </block>
          </block>
        </script>
      </block>
    </script>
  </block>
  </script>
</block-definition>
<block-definition s="empty? %'data'" type="predicate" category="lists">
  <header/>
  <code/>
  <translations/>
  <inputs>
    <input type="%l"/>
  </inputs>
  <script>
    <block s="doReport">
      <block s="reportEquals">
        <block var="data"/>
        <block s="reportNewList">
          <list/>
        </block>
      </block>
    </block>
  </script>
</block-definition>
<block-definition s="keep items such that %'pred' from %'data'"
type="reporter" category="lists">
  <header/>
  <code/>
  <translations/>
```

```xml
    <inputs>
      <input type="%predRing"/>
      <input type="%l"/>
    </inputs>
    <script>
      <block s="doWarp">
        <script>
          <block s="doIf">
            <custom-block s="empty? %l">
              <block var="data"/>
            </custom-block>
            <script>
              <block s="doReport">
                <block s="reportNewList">
                  <list/>
                </block>
              </block>
            </script>
          </block>
          <block s="doIfElse">
            <block s="evaluate">
              <block var="pred"/>
              <list>
                <block s="reportListItem">
                  <l>1</l>
                  <block var="data"/>
                </block>
              </list>
            </block>
            <script>
              <block s="doReport">
                <block s="reportCONS">
                  <block s="reportListItem">
                    <l>1</l>
                    <block var="data"/>
                  </block>
                  <custom-block s="keep items such that %predRing from %l">
                    <block var="pred"/>
                    <block s="reportCDR">
                      <block var="data"/>
                    </block>
                  </custom-block>
                </block>
              </block>
            </script>
            <script>
              <block s="doReport">
                <custom-block s="keep items such that %predRing from %l">
                  <block var="pred"/>
                  <block s="reportCDR">
                    <block var="data"/>
                  </block>
                </custom-block>
              </block>
            </script>
          </block>
        </script>
      </block>
    </script>
  </block-definition>
```

```
<block-definition s="combine with %'function' items of %'data'"
type="reporter" category="lists">
  <header/>
  <code/>
  <translations/>
  <inputs>
    <input type="%repRing"/>
    <input type="%l"/>
  </inputs>
  <script>
    <block s="doWarp">
      <script>
        <block s="doIf">
          <custom-block s="empty? %l">
            <block s="reportCDR">
              <block var="data"/>
            </block>
          </custom-block>
          <script>
            <block s="doReport">
              <block s="reportListItem">
                <l>1</l>
                <block var="data"/>
              </block>
            </block>
          </script>
        </block>
        <block s="doReport">
          <block s="evaluate">
            <block var="function"/>
            <list>
              <block s="reportListItem">
                <l>1</l>
                <block var="data"/>
              </block>
              <custom-block s="combine with %repRing items of %l">
                <block var="function"/>
                <block s="reportCDR">
                  <block var="data"/>
                </block>
              </custom-block>
            </list>
          </block>
        </block>
      </script>
    </block>
  </script>
</block-definition>
<block-definition s="join words %'words'" type="reporter"
category="operators">
  <header/>
  <code/>
  <translations/>
  <inputs>
    <input type="%mult%txt"/>
  </inputs>
  <script>
    <block s="doWarp">
      <script>
        <block s="doIf">
          <custom-block s="empty? %l">
```

```xml
          <block s="reportCDR">
            <block var="words"/>
          </block>
        </custom-block>
        <script>
          <block s="doReport">
            <block s="reportListItem">
              <l>1</l>
              <block var="words"/>
            </block>
          </block>
        </script>
      </block>
      <block s="doReport">
        <block s="reportJoinWords">
          <list>
            <block s="reportListItem">
              <l>1</l>
              <block var="words"/>
            </block>
            <block s="reportJoinWords">
              <list>
                <l> </l>
                <block s="evaluate">
                  <block s="reifyReporter">
                    <autolambda>
                      <custom-block s="join words %mult%txt">
                        <block s="reportCDR">
                          <block var="words"/>
                        </block>
                      </custom-block>
                    </autolambda>
                    <list/>
                  </block>
                  <list/>
                </block>
              </list>
            </block>
          </list>
        </block>
      </block>
    </script>
  </block>
</script>
</block-definition>
<block-definition s="list $arrowRight sentence %'data'" type="reporter"
category="operators">
  <header/>
  <code/>
  <translations/>
  <inputs>
    <input type="%l"/>
  </inputs>
  <script>
    <block s="doWarp">
      <script>
        <block s="doReport">
          <custom-block s="combine with %repRing items of %l">
            <block s="reifyReporter">
              <autolambda>
                <custom-block s="join words %mult%txt">
```

```xml
              <list>
                <l/>
                <l/>
              </list>
            </custom-block>
          </autolambda>
          <list/>
        </block>
        <block var="data"/>
      </custom-block>
    </block>
  </script>
</block>
</script>
</block-definition>
<block-definition s="sentence $arrowRight list %'text'" type="reporter"
category="operators">
  <header/>
  <code/>
  <translations/>
  <inputs>
    <input type="%txt"/>
  </inputs>
  <script>
    <block s="doWarp">
      <script>
        <block s="doReport">
          <block s="reportTextSplit">
            <block var="text"/>
            <l>
              <option>whitespace</option>
            </l>
          </block>
        </block>
      </script>
    </block>
  </script>
</block-definition>
<block-definition s="for each %'item' of %'data' %'action'"
type="command" category="lists">
  <header/>
  <code/>
  <translations/>
  <inputs>
    <input type="%upvar"/>
    <input type="%l"/>
    <input type="%cs"/>
  </inputs>
  <script>
    <block s="doUntil">
      <custom-block s="empty? %l">
        <block var="data"/>
      </custom-block>
      <script>
        <block s="doSetVar">
          <l>item</l>
          <block s="reportListItem">
            <l>1</l>
            <block var="data"/>
          </block>
        </block>
```

```
        <block s="doRun">
          <block var="action"/>
          <list>
            <block s="reportListItem">
              <l>1</l>
              <block var="data"/>
            </block>
          </list>
        </block>
        <block s="doSetVar">
          <l>data</l>
          <block s="reportCDR">
            <block var="data"/>
          </block>
        </block>
      </block>
    </script>
  </block>
</script>
</block-definition>
<block-definition s="word $arrowRight list %'word'" type="reporter"
category="operators">
  <header/>
  <code/>
  <translations/>
  <inputs>
    <input type="%txt"/>
  </inputs>
  <script>
    <block s="doWarp">
      <script>
        <block s="doReport">
          <block s="reportTextSplit">
            <block var="word"/>
            <l>
              <option>letter</option>
            </l>
          </block>
        </block>
      </script>
    </block>
  </script>
</block-definition>
<block-definition s="sum %'nums'" type="reporter" category="operators">
  <comment x="0" y="0" w="202" collapsed="false">Takes any number of
  numbers as inputs (use the left and right arrowheads to adjust the
  number of input slots) and reports the result of adding them all, so
  ISUM (4) (100) (8)) reports 112.</comment>
  <header/>
  <code/>
  <translations/>
  <inputs>
    <input type="%mult%n"/>
  </inputs>
  <script>
    <block s="doIf">
      <block s="reportEquals">
        <block var="nums"/>
        <block s="reportNewList">
          <list/>
        </block>
      </block>
    </block>
```

```xml
        <script>
          <block s="doReport">
            <l>0</l>
          </block>
        </script>
      </block>
      <block s="doReport">
        <block s="reportSum">
          <block s="reportListItem">
            <l>1</l>
            <block var="nums"/>
          </block>
          <custom-block s="sum %mult%n">
            <block s="reportCDR">
              <block var="nums"/>
            </block>
          </custom-block>
        </block>
      </block>
    </script>
  </block-definition>
  <block-definition s="product %'nums'" type="reporter"
category="operators">
    <comment x="0" y="0" w="205" collapsed="false">Takes any number of
    numbers as inputs (use the left and right arrowheads to adjust the
    number of input slots) and reports the result of multiplying them all,
    so (PRODUCT (4) (100) (8)) reports 3200.</comment>
    <header/>
    <code/>
    <translations/>
    <inputs>
      <input type="%mult%n"/>
    </inputs>
    <script>
      <block s="doIf">
        <block s="reportEquals">
          <block var="nums"/>
          <block s="reportNewList">
            <list/>
          </block>
        </block>
        <script>
          <block s="doReport">
            <l>1</l>
          </block>
        </script>
      </block>
      <block s="doReport">
        <block s="reportProduct">
          <block s="reportListItem">
            <l>1</l>
            <block var="nums"/>
          </block>
          <custom-block s="product %mult%n">
            <block s="reportCDR">
              <block var="nums"/>
            </block>
          </custom-block>
        </block>
      </block>
    </script>
```

```
</block-definition>
<block-definition s="all of %'preds'" type="predicate"
category="operators">
  <comment x="0" y="0" w="247.99999999999997" collapsed="false">Takes
  any number of Boolean (true/false) inputs (use the left and right
  arrowheads to adjust the number of input slots) and reports TRUE only
  if all of the inputs are TRUE, otherwise FALSE. Like AND but for
  multiple inputs.</comment>
  <header/>
  <code/>
  <translations/>
  <inputs>
    <input type="%mult%boolUE"/>
  </inputs>
  <script>
    <block s="doIf">
      <block s="reportEquals">
        <block var="preds"/>
        <block s="reportNewList">
          <list/>
        </block>
      </block>
      <script>
        <block s="doReport">
          <block s="reportBoolean">
            <l>
              <bool>true</bool>
            </l>
          </block>
        </block>
      </script>
    </block>
    <block s="doReport">
      <block s="reportAnd">
        <block s="evaluate">
          <block s="reportListItem">
            <l>1</l>
            <block var="preds"/>
          </block>
          <list/>
        </block>
        <custom-block s="all of %mult%boolUE">
          <block s="reportCDR">
            <block var="preds"/>
          </block>
        </custom-block>
      </block>
    </block>
  </script>
</block-definition>
<block-definition s="any of %'preds'" type="predicate"
category="operators">
  <comment x="0" y="0" w="240" collapsed="false">Takes any number of
  Boolean (true/false) inputs (use the left and right arrowheads to
  adjust the number of input slots) and reports TRUE if at least one
  input is TRUE, otherwise FALSE.</comment>
  <header/>
  <code/>
  <translations/>
  <inputs>
    <input type="%mult%boolUE"/>
```

```
          </inputs>
          <script>
            <block s="doIf">
              <block s="reportEquals">
                <block var="preds"/>
                <block s="reportNewList">
                  <list/>
                </block>
              </block>
              <script>
                <block s="doReport">
                  <block s="reportBoolean">
                    <l>
                      <bool>false</bool>
                    </l>
                  </block>
                </block>
              </script>
            </block>
            <block s="doReport">
              <block s="reportOr">
                <block s="evaluate">
                  <block s="reportListItem">
                    <l>1</l>
                    <block var="preds"/>
                  </block>
                  <list/>
                </block>
                <custom-block s="any of %mult%boolUE">
                  <block s="reportCDR">
                    <block var="preds"/>
                  </block>
                </custom-block>
              </block>
            </block>
          </script>
        </block-definition>
        <block-definition s="yield" type="command" category="other">
          <header/>
          <code/>
          <translations/>
          <inputs/>
          <script>
            <block s="doWait">
              <l>0.00000000000001</l>
            </block>
          </script>
        </block-definition>
        <block-definition s="$robot create & start record move %'record_name'
with motor(s) %'motors input'" type="command" category="control">
          <comment x="0" y="0" w="230.00000099999988" collapsed="false">Create
          and start the record of a defininied move.. The <record_name> input is
          used to store the recorded move. The move is stored in the directory
          where you started the web server (with the command "$robot-snap
          $robot-ergo" for example), and can be replayed even if you close Snap!
          The motor(s) input can accept : - string of a motor name - string of
          many motors separed with spaces - a Snap! list of motors like the
          reporter block "$robot all motors" If the motor(s) input is empty, all
          motors will be recorded.</comment>
          <header/>
          <code/>
```

```
<translations/>
<inputs>
  <input type="%s">move_name</input>
  <input type="%s"/>
</inputs>
<script>
  <block s="doDeclareVariables">
    <list>
      <l>motors_list</l>
      <l>complete motor list</l>
      <l>complete aliases list</l>
    </list>
  </block>
  <block s="doSetVar">
    <l>motors_list</l>
    <block s="reportNewList">
      <list/>
    </block>
  </block>
  <block s="doSetVar">
    <l>complete motor list</l>
    <custom-block s="$robot all motors"/>
  </block>
  <block s="doIf">
    <block s="reportIsIdentical">
      <block var="record_name"/>
      <l/>
    </block>
    <script>
      <custom-block s="$robot popup %txt">
        <l>Input error, record name must not be empty</l>
      </custom-block>
      <block s="doReport">
        <l/>
      </block>
    </script>
  </block>
  <block s="doIfElse">
    <block s="reportEquals">
      <block var="motors input"/>
      <l/>
    </block>
    <script>
      <block s="doReport">
        <block s="reportURL">
          <block s="reportJoinWords">
            <list>
              <custom-block s="$robot robot URL"/>
              <l>/primitive/MoveRecorder/</l>
              <block var="record_name"/>
              <l>/start/</l>
              <custom-block s="combine with %repRing items of %l">
                <block s="reifyReporter">
                  <autolambda>
                    <block s="reportJoinWords">
                      <list>
                        <block var="#1"/>
                        <l>;</l>
                        <block var="#2"/>
                      </list>
                    </block>
```

```xml
        </autolambda>
        <list>
          <l>#1</l>
          <l>#2</l>
        </list>
      </block>
      <custom-block s="$robot all motors"/>
    </custom-block>
  </list>
  </block>
  </block>
  </block>
</script>
<script>
  <block s="doIfElse">
    <block s="reportIsA">
      <block var="motors input"/>
      <l>
        <option>list</option>
      </l>
    </block>
    <script>
      <block s="doSetVar">
        <l>motors_list</l>
        <custom-block s="append %mult%l">
          <list>
            <block var="motors_list"/>
            <block var="motors input"/>
          </list>
        </custom-block>
      </block>
    </script>
    <script>
      <block s="doIfElse">
        <block s="reportOr">
          <block s="reportIsA">
            <block var="motors input"/>
            <l>
              <option>number</option>
            </l>
          </block>
          <block s="reportIsA">
            <block var="motors input"/>
            <l>
              <option>text</option>
            </l>
          </block>
        </block>
        <script>
          <block s="doSetVar">
            <l>motors_list</l>
            <custom-block s="append %mult%l">
              <list>
                <block var="motors_list"/>
                <block s="reportTextSplit">
                  <block var="motors input"/>
                  <l>
                    <option>whitespace</option>
                  </l>
                </block>
              </list>
```

```
            </custom-block>
          </block>
        </script>
        <script>
          <custom-block s="$robot popup %txt">
            <l>Input error, you should look at help (right click on
            the bock)</l>
          </custom-block>
        </script>
      </block>
    </script>
  </block>
</script>
</block>
<custom-block s="for each %upvar of %l %cs">
  <l>m</l>
  <block var="motors_list"/>
  <script>
    <block s="doIf">
      <block s="reportNot">
        <block s="reportListContainsItem">
          <block var="complete motor list"/>
          <block var="m"/>
        </block>
      </block>
      <script>
        <block s="doIf">
          <block s="reportEquals">
            <block var="complete aliases list"/>
            <l>0</l>
            <comment w="90" collapsed="false">Set all aliases here for
            optimisation issues</comment>
          </block>
          <script>
            <block s="doSetVar">
              <l>complete aliases list</l>
              <custom-block s="$robot all motors groups"/>
            </block>
          </script>
        </block>
        <block s="doIfElse">
          <block s="reportListContainsItem">
            <block var="complete aliases list"/>
            <block var="m"/>
          </block>
          <script>
            <block s="doSetVar">
              <l>motors_list</l>
              <custom-block s="append %mult%l">
                <list>
                  <block var="motors_list"/>
                  <custom-block s="$robot motors in group %txt">
                    <block var="m"/>
                  </custom-block>
                </list>
              </custom-block>
            </block>
          </script>
          <script>
            <custom-block s="$robot popup %txt">
              <block s="reportJoinWords">
```

```
              <list>
                <l>Motor </l>
                <block var="m"/>
                <l>does not exist in your robot. </l>
              </list>
            </block>
          </custom-block>
          <block s="doReport">
            <l/>
          </block>
        </script>
      </block>
    </script>
  </block>
</script>
</custom-block>
<custom-block s="$robot set motor(s) %s %txt">
  <block var="motors_list"/>
  <l>compliant</l>
</custom-block>
<block s="doReport">
  <block s="reportURL">
    <block s="reportJoinWords">
      <list>
        <custom-block s="$robot robot URL"/>
        <l>/primitive/MoveRecorder/</l>
        <block var="record_name"/>
        <l>/start/</l>
        <custom-block s="combine with %repRing items of %l">
          <block s="reifyReporter">
            <autolambda>
              <block s="reportJoinWords">
                <list>
                  <block var="#1"/>
                  <l>;</l>
                  <block var="#2"/>
                </list>
              </block>
            </autolambda>
            <list>
              <l>#1</l>
              <l>#2</l>
            </list>
          </block>
          <block var="motors_list"/>
        </custom-block>
      </list>
    </block>
  </block>
</block>
</script>
</block-definition>
<block-definition s="$robot stop record & save move %'record_name'"
type="command" category="control">
  <comment x="0" y="0" w="489" collapsed="false">Stop recording the
  desired move record. Be careful, you must have previously defined a
  move record with the "create move ... with motor(s) ..."
  block</comment>
  <header/>
  <code/>
  <translations/>
```

```xml
      <inputs>
        <input type="%s">move_name</input>
      </inputs>
      <script>
        <block s="doDeclareVariables">
          <list>
            <l>motors</l>
          </list>
        </block>
        <block s="doSetVar">
          <l>motors</l>
          <block s="reportTextSplit">
            <block s="reportURL">
              <block s="reportJoinWords">
                <list>
                  <custom-block s="$robot robot URL"/>
                  <l>/primitive/MoveRecorder/</l>
                  <block var="record_name"/>
                  <l>/get_motors</l>
                </list>
              </block>
            </block>
            <l>/</l>
          </block>
        </block>
        <custom-block s="$robot set motor(s) %s %txt">
          <block var="motors"/>
          <block s="reportBoolean">
            <l>
              <bool>false</bool>
            </l>
          </block>
        </custom-block>
        <block s="doReport">
          <block s="reportURL">
            <block s="reportJoinWords">
              <list>
                <custom-block s="$robot robot URL"/>
                <l>/primitive/MoveRecorder/</l>
                <block var="record_name"/>
                <l>/stop</l>
              </list>
            </block>
          </block>
        </block>
      </script>
</block-definition>
<block-definition s="$robot stop move %'record_name'" type="command"
category="control">
  <header/>
  <code/>
  <translations/>
  <inputs>
    <input type="%s">move_name</input>
  </inputs>
  <script>
    <block s="doReport">
      <block s="reportURL">
        <block s="reportJoinWords">
          <list>
            <custom-block s="$robot robot URL"/>
```

```
          <l>/primitive/MovePlayer/</l>
          <block var="record_name"/>
          <l>/stop</l>
        </list>
      </block>
    </block>
  </block>
</script>
</block-definition>
<block-definition s="$robot popup %'message'" type="command"
category="other">
  <header/>
  <code/>
  <translations/>
  <inputs>
    <input type="%txt"/>
  </inputs>
  <script>
    <block s="doRun">
      <block s="reportJSFunction">
        <list>
          <l>message</l>
        </list>
        <l>alert(message);</l>
      </block>
      <list>
        <block var="message"/>
      </list>
    </block>
  </script>
</block-definition>
<block-definition s="pool map %'function' over %'lists'" type="reporter"
category="lists">
  <comment x="0" y="0" w="204" collapsed="false">Works as the map block
  (see map help), but it proceeds iterations concurently.</comment>
  <header/>
  <code/>
  <translations/>
  <inputs>
    <input type="%repRing"/>
    <input type="%mult%l"/>
  </inputs>
  <script>
    <block s="doDeclareVariables">
      <list>
        <l>results</l>
        <l>iterator</l>
        <l>input_list</l>
        <l>list</l>
      </list>
    </block>
    <block s="doSetVar">
      <l>results</l>
      <block s="reportNewList">
        <list/>
      </block>
    </block>
    <block s="doSetVar">
      <l>iterator</l>
      <l>0</l>
    </block>
```

```xml
<block s="doRepeat">
  <block s="reportListLength">
    <block s="reportListItem">
      <l>1</l>
      <block var="lists"/>
    </block>
  </block>
  <script>
    <block s="doChangeVar">
      <l>iterator</l>
      <l>1</l>
    </block>
    <block s="doSetVar">
      <l>input_list</l>
      <block s="reportNewList">
        <list/>
      </block>
    </block>
    <custom-block s="for each %upvar of %l %cs">
      <l>list</l>
      <block var="lists"/>
      <script>
        <block s="doAddToList">
          <block s="reportListItem">
            <block var="iterator"/>
            <block var="list"/>
          </block>
          <block var="input_list"/>
        </block>
      </script>
    </custom-block>
    <block s="fork">
      <block s="reifyScript">
        <script>
          <block s="doAddToList">
            <block s="evaluate">
              <block var="function"/>
              <block var="input_list"/>
            </block>
            <block var="results"/>
          </block>
        </script>
        <list/>
      </block>
      <list/>
    </block>
    <custom-block s="yield"/>
  </script>
</block>
<block s="doWaitUntil">
  <block s="reportEquals">
    <block s="reportListLength">
      <block var="results"/>
    </block>
    <block s="reportListLength">
      <block s="reportListItem">
        <l>1</l>
        <block var="lists"/>
      </block>
    </block>
  </block>
</block>
```

```
      </block>
      <block s="doReport">
        <block var="results"/>
      </block>
    </script>
  </block-definition>
  <block-definition s="$robot play concurently moves %'inputs'"
  type="reporter" category="control">
    <comment x="0" y="0" w="260" collapsed="false">Play previous recorded
    move concurently. Inputs can be : * move name (string) * many moves
    name separated by whitespace * any reporter block, like sequential or
    play sequentialy</comment>
    <header/>
    <code/>
    <translations/>
    <inputs>
      <input type="%mult%s"/>
    </inputs>
    <script>
      <block s="doDeclareVariables">
        <list>
          <l>move_names</l>
          <l>reporters</l>
          <l>tmp_string</l>
          <l>tmp_reporter</l>
        </list>
      </block>
      <block s="doSetVar">
        <l>move_names</l>
        <block s="reportNewList">
          <list/>
        </block>
      </block>
      <block s="doSetVar">
        <l>tmp_string</l>
        <block s="reportNewList">
          <list/>
        </block>
      </block>
      <block s="doSetVar">
        <l>reporters</l>
        <block s="reportNewList">
          <list/>
        </block>
      </block>
      <custom-block s="for each %upvar of %l %cs">
        <l>item</l>
        <block var="inputs"/>
        <script>
          <block s="doIfElse">
            <block s="reportOr">
              <block s="reportIsA">
                <block var="item"/>
                <l>
                  <option>text</option>
                </l>
              </block>
              <block s="reportIsA">
                <block var="item"/>
                <l>
                  <option>number</option>
```

```
          </l>
        </block>
      </block>
    <script>
      <block s="doSetVar">
        <l>move_names</l>
        <custom-block s="append %mult%l">
          <list>
            <block var="move_names"/>
            <block s="reportTextSplit">
              <block var="item"/>
              <l>;</l>
            </block>
          </list>
        </custom-block>
      </block>
    </script>
    <script>
      <block s="doIfElse">
        <block s="reportIsA">
          <block var="item"/>
          <l>
            <option>list</option>
          </l>
        </block>
        <script>
          <block s="doSetVar">
            <l>move_names</l>
            <custom-block s="append %mult%l">
              <list>
                <block var="move_names"/>
                <block var="item"/>
              </list>
            </custom-block>
          </block>
        </script>
        <script>
          <block s="doIfElse">
            <block s="reportIsA">
              <block var="item"/>
              <l>
                <option>reporter</option>
              </l>
            </block>
            <script>
              <block s="doAddToList">
                <block var="item"/>
                <block var="reporters"/>
              </block>
            </script>
            <script>
              <custom-block s="$robot popup %txt">
                <l>Input is not valid. See help (right click on the
                block)</l>
              </custom-block>
            </script>
          </block>
        </script>
      </block>
    </script>
  </block>
```

```xml
          </script>
        </custom-block>
        <custom-block s="for each %upvar of %l %cs">
          <l>item</l>
          <block var="move_names"/>
          <script>
            <block s="fork">
              <block s="reifyScript">
                <script>
                  <block s="doAddToList">
                    <block s="evaluate">
                      <block s="reifyReporter">
                        <autolambda>
                          <custom-block s="$robot play move %txt | speed x %n">
                            <l/>
                            <l>1</l>
                          </custom-block>
                        </autolambda>
                        <list/>
                      </block>
                      <list>
                        <block var="item"/>
                      </list>
                    </block>
                    <block var="tmp_string"/>
                  </block>
                </script>
                <list/>
              </block>
              <list/>
            </block>
            <custom-block s="yield"/>
          </script>
        </custom-block>
        <block s="doSetVar">
          <l>tmp_reporter</l>
          <custom-block s="$robot concurrent %mult%repRing">
            <list>
              <block s="reifyReporter">
                <script/>
                <list/>
              </block>
            </list>
          </custom-block>
        </block>
        <block s="doWaitUntil">
          <block s="reportEquals">
            <block s="reportListLength">
              <block var="tmp_string"/>
            </block>
            <block s="reportListLength">
              <block var="move_names"/>
            </block>
          </block>
        </block>
        <block s="doReport">
          <custom-block s="append %mult%l">
            <list>
              <block var="tmp_reporter"/>
              <block var="tmp_string"/>
            </list>
```

```xml
        </custom-block>
      </block>
    </script>
    <scripts>
      <comment x="131" y="660.2" w="265" collapsed="false">TODO :
      understand why a sequential input blocks return items on a list
      rather than separated with whitespace</comment>
    </scripts>
  </block-definition>
  <block-definition s="$robot play sequentially moves %'inputs'"
  type="reporter" category="control">
    <comment x="0" y="0" w="267" collapsed="false">Play previous recorded
    moves sequentialy. Inputs can be : * move name (string) * many moves
    name separated by whitespace * any reporter block like concurent or
    play concurently</comment>
    <header/>
    <code/>
    <translations/>
    <inputs>
      <input type="%mult%s"/>
    </inputs>
    <script>
      <block s="doDeclareVariables">
        <list>
          <l>move_names</l>
          <l>reporters</l>
          <l>out</l>
        </list>
      </block>
      <block s="doSetVar">
        <l>move_names</l>
        <block s="reportNewList">
          <list/>
        </block>
      </block>
      <block s="doSetVar">
        <l>reporters</l>
        <block s="reportNewList">
          <list/>
        </block>
      </block>
      <custom-block s="for each %upvar of %l %cs">
        <l>item</l>
        <block var="inputs"/>
        <script>
          <block s="doIfElse">
            <block s="reportOr">
              <block s="reportIsA">
                <block var="item"/>
                <l>
                  <option>text</option>
                </l>
              </block>
              <block s="reportIsA">
                <block var="item"/>
                <l>
                  <option>number</option>
                </l>
              </block>
            </block>
            <script>
```

```
            <block s="doSetVar">
              <l>move_names</l>
              <custom-block s="append %mult%l">
                <list>
                  <block var="move_names"/>
                  <block s="reportTextSplit">
                    <block var="item"/>
                    <l>;</l>
                  </block>
                </list>
              </custom-block>
            </block>
          </script>
          <script>
            <block s="doIfElse">
              <block s="reportIsA">
                <block var="item"/>
                <l>
                  <option>list</option>
                </l>
              </block>
              <script>
                <block s="doSetVar">
                  <l>move_names</l>
                  <custom-block s="append %mult%l">
                    <list>
                      <block var="move_names"/>
                      <block var="item"/>
                    </list>
                  </custom-block>
                </block>
              </script>
              <script>
                <block s="doIfElse">
                  <block s="reportIsA">
                    <block var="item"/>
                    <l>
                      <option>reporter</option>
                    </l>
                  </block>
                  <script>
                    <block s="doAddToList">
                      <block var="item"/>
                      <block var="reporters"/>
                    </block>
                  </script>
                  <script>
                    <custom-block s="$robot popup %txt">
                      <l>Input is not valid. See help (right click on the
                      block)</l>
                    </custom-block>
                  </script>
                </block>
              </script>
            </block>
          </script>
        </block>
      </script>
    </block>
  </script>
</custom-block>
<block s="doReport">
  <custom-block s="join words %mult%txt">
```

```xml
          <list>
            <custom-block s="combine with %repRing items of %l">
              <block s="reifyReporter">
                <autolambda>
                  <custom-block s="join words %mult%txt">
                    <list>
                      <l/>
                      <l/>
                    </list>
                  </custom-block>
                </autolambda>
                <list/>
              </block>
              <custom-block s="map %repRing over %mult%l">
                <block s="reifyReporter">
                  <autolambda>
                    <custom-block s="$robot play move %txt | speed x %n">
                      <l/>
                      <l>1</l>
                    </custom-block>
                  </autolambda>
                  <list/>
                </block>
                <list>
                  <block var="move_names"/>
                </list>
              </custom-block>
            </custom-block>
            <custom-block s="$robot sequence %mult%repRing">
              <list>
                <block s="reifyReporter">
                  <script/>
                  <list/>
                </block>
              </list>
            </custom-block>
          </list>
        </custom-block>
      </block>
    </script>
</block-definition>
<block-definition s="$robot all motors groups" type="reporter"
category="sensing">
  <comment x="0" y="0" w="171" collapsed="false">Return a list of all
  aliases. Alias is a keyword for representing many motors at once.
  </comment>
  <header/>
  <code/>
  <translations/>
  <inputs/>
  <script>
    <block s="doReport">
      <block s="reportTextSplit">
        <block s="reportURL">
          <block s="reportJoinWords">
            <list>
              <custom-block s="$robot robot URL"/>
              <l>/motors/</l>
              <l>alias</l>
            </list>
          </block>
```

```
        </block>
        <l>/</l>
      </block>
    </block>
  </script>
</block-definition>
<block-definition s="items %'i' to %'j' of %'list'" type="reporter"
category="lists">
  <comment x="0" y="0" w="146" collapsed="false">Return a sublist which
  contains items in the interval of 2 input numbers. Original list is
  not modified.</comment>
  <header/>
  <code/>
  <translations/>
  <inputs>
    <input type="%n"/>
    <input type="%n"/>
    <input type="%l"/>
  </inputs>
  <script>
    <block s="doDeclareVariables">
      <list>
        <l>result</l>
      </list>
    </block>
    <block s="doSetVar">
      <l>result</l>
      <block s="reportNewList">
        <list/>
      </block>
    </block>
    <block s="doIf">
      <block s="reportLessThan">
        <block var="i"/>
        <l>0</l>
      </block>
      <script>
        <block s="doSetVar">
          <l>i</l>
          <block s="reportSum">
            <block s="reportListLength">
              <block var="list"/>
            </block>
            <block var="i"/>
          </block>
        </block>
      </script>
    </block>
    <block s="doIf">
      <block s="reportLessThan">
        <block var="j"/>
        <l>0</l>
      </block>
      <script>
        <block s="doSetVar">
          <l>j</l>
          <block s="reportSum">
            <block s="reportListLength">
              <block var="list"/>
            </block>
            <block var="j"/>
```

```xml
          </block>
        </block>
      </script>
    </block>
    <custom-block s="for %upvar = %n to %n %cs">
      <l>elem</l>
      <custom-block s="if %b then %anyUE else %anyUE">
        <block var="i"/>
        <block var="i"/>
        <l>1</l>
      </custom-block>
      <custom-block s="if %b then %anyUE else %anyUE">
        <block var="j"/>
        <block var="j"/>
        <block s="reportListLength">
          <block var="list"/>
        </block>
      </custom-block>
      <script>
        <block s="doAddToList">
          <block s="reportListItem">
            <block var="elem"/>
            <block var="list"/>
          </block>
          <block var="result"/>
        </block>
      </script>
    </custom-block>
    <block s="doReport">
      <block var="result"/>
    </block>
  </script>
</block-definition>
<block-definition s="$robot play move %'record_name' in reverse | speed
x %'speed'" type="reporter" category="control">
  <comment x="0" y="0" w="230.00000099999988" collapsed="false">Play in
  reverse the movement of a previous recorded move. The <record_name>
  input is the name of a .record filename which should be in the same
  directory where you started the web server (with the command "$robot-
  snap $robot-ergo" for example). You can change the play speed with the
  <speed> input.</comment>
  <header/>
  <code/>
  <translations/>
  <inputs>
    <input type="%s">move_name</input>
    <input type="%n">1</input>
  </inputs>
  <script>
    <block s="doDeclareVariables">
      <list>
        <l>time</l>
      </list>
    </block>
    <block s="doDeclareVariables">
      <list>
        <l>wait</l>
      </list>
    </block>
    <block s="doSetVar">
      <l>wait</l>
```

```xml
            <block s="reportBoolean">
              <l>
                <bool>true</bool>
              </l>
            </block>
          </block>
          <block s="doIfElse">
            <block s="reportListContainsItem">
              <custom-block s="$robot all recorded moves"/>
              <block var="record_name"/>
            </block>
            <script>
              <block s="doSetVar">
                <l>time</l>
                <block s="reportURL">
                  <block s="reportJoinWords">
                    <list>
                      <custom-block s="$robot robot URL"/>
                      <l>/primitive/MovePlayer/</l>
                      <block var="record_name"/>
                      <l>/start/</l>
                      <block var="speed"/>
                      <l>/backwards</l>
                    </list>
                  </block>
                </block>
              </block>
              <block s="doIf">
                <block var="wait"/>
                <script>
                  <block s="doWait">
                    <block var="time"/>
                  </block>
                </script>
                <comment w="90" collapsed="false">ugly wait to stop feature.
                TODO : change with a looking at running primitive</comment>
              </block>
            </script>
            <script>
              <custom-block s="$robot popup %txt">
                <block s="reportJoinWords">
                  <list>
                    <l>Error : <</l>
                    <block var="record_name"/>
                    <l>> is not is the avaible records (look at the block $robot
                    all records to see all recorded moves) </l>
                    <custom-block s="$robot all recorded moves"/>
                  </list>
                </block>
              </custom-block>
            </script>
          </block>
          <block s="doReport">
            <block var="record_name"/>
          </block>
        </script>
      </block-definition>
      <block-definition s="$robot test connection" type="reporter"
category="sensing">
        <header/>
        <code/>
```

```
<translations/>
<inputs/>
<script>
  <block s="doIfElse">
    <custom-block s="ping http:// %s">
      <custom-block s="$robot robot URL"/>
    </custom-block>
    <script>
      <block s="doReport">
        <l>Connection ok!</l>
      </block>
    </script>
    <script>
      <block s="doReport">
        <l>You may have connection troubles. Check the host
        variable</l>
      </block>
    </script>
  </block>
</script>
</block-definition>
<block-definition s="index of %'var' in %'list'" type="reporter"
category="lists">
  <comment x="0" y="0" w="194" collapsed="false">Return the index of a
  item in a list</comment>
  <header/>
  <code/>
  <translations/>
  <inputs>
    <input type="%s"/>
    <input type="%l"/>
  </inputs>
  <script>
    <block s="doDeclareVariables">
      <list>
        <l>i</l>
      </list>
    </block>
    <block s="doSetVar">
      <l>i</l>
      <l>1</l>
    </block>
    <custom-block s="for each %upvar of %l %cs">
      <l>m</l>
      <block var="list"/>
      <script>
        <block s="doIf">
          <block s="reportEquals">
            <block var="m"/>
            <block var="var"/>
          </block>
          <script>
            <block s="doReport">
              <block var="i"/>
            </block>
          </script>
        </block>
        <block s="doChangeVar">
          <l>i</l>
          <l>1</l>
        </block>
```

```
        </script>
      </custom-block>
      <block s="doReport">
        <l>0</l>
      </block>
    </script>
  </block-definition>
  <block-definition s="$robot http:// %'input'" type="reporter"
category="other">
    <header/>
    <code/>
    <translations/>
    <inputs>
      <input type="%s"/>
    </inputs>
    <script>
      <block s="doDeclareVariables">
        <list>
          <l>output</l>
          <l>timer_init</l>
        </list>
      </block>
      <block s="doSetVar">
        <l>timer_init</l>
        <block s="getTimer"/>
      </block>
      <block s="doSetVar">
        <l>output</l>
        <block s="reportNewList">
          <list/>
        </block>
      </block>
      <block s="fork">
        <block s="reifyScript">
          <script>
            <block s="doAddToList">
              <block s="reportURL">
                <block var="input"/>
              </block>
              <block var="output"/>
            </block>
          </script>
          <list/>
        </block>
        <list/>
      </block>
      <block s="doWaitUntil">
        <block s="reportOr">
          <block s="reportGreaterThan">
            <block s="reportDifference">
              <block s="getTimer"/>
              <block var="timer_init"/>
            </block>
            <l>3.5</l>
          </block>
          <block s="reportGreaterThan">
            <block s="reportListLength">
              <block var="output"/>
            </block>
            <l>0</l>
          </block>
```

```
            </block>
          </block>
          <block s="doIf">
            <block s="reportGreaterThan">
              <block s="reportDifference">
                <block s="getTimer"/>
                <block var="timer_init"/>
              </block>
              <l>3</l>
            </block>
            <script>
              <custom-block s="$robot popup %txt">
                <block s="reportJoinWords">
                  <list>
                    <l>Robot is not connected to </l>
                    <block var="input"/>
                  </list>
                </block>
              </custom-block>
              <block s="doReport">
                <l>error</l>
              </block>
            </script>
          </block>
          <block s="doReport">
            <block s="reportListItem">
              <l>1</l>
              <block var="output"/>
            </block>
          </block>
        </script>
        <scripts>
          <script x="452.9853535625002" y="75.0000070000001">
            <custom-block s="$robot all motors"/>
          </script>
          <script x="539.8916025624999" y="95.00000100000011">
            <block s="reportURL">
              <block var="input"/>
            </block>
          </script>
          <script x="397.2265645" y="240.00000399999993">
            <block s="doSetVar">
              <l>output</l>
              <l>0</l>
            </block>
          </script>
          <script x="433" y="179.2">
            <block s="reportListLength">
              <l/>
            </block>
          </script>
          <script x="701.5517588124999" y="139.00000500000004">
            <block s="reportStringSize">
              <l>world</l>
            </block>
          </script>
        </scripts>
      </block-definition>
      <block-definition s="$robot %'action' behaviours %'primitive'"
type="command" category="control">
        <header/>
```

```
<code/>
<translations/>
<inputs>
  <input type="%txt" readonly="true">
    start
    <options>start stop pause resume</options>
  </input>
  <input type="%txt"/>
</inputs>
<script>
  <block s="doDeclareVariables">
    <list>
      <l>all primitives</l>
      <l>keyword list</l>
    </list>
  </block>
  <block s="doSetVar">
    <l>all primitives</l>
    <custom-block s="$robot get %s behaviours">
      <l>all</l>
    </custom-block>
  </block>
  <block s="doSetVar">
    <l>keyword list</l>
    <block s="reportNewList">
      <list>
        <l>start</l>
        <l>stop</l>
        <l>pause</l>
        <l>resume</l>
      </list>
    </block>
  </block>
  <block s="doIfElse">
    <block s="reportNot">
      <block s="reportListContainsItem">
        <block var="all primitives"/>
        <block var="primitive"/>
      </block>
    </block>
    <script>
      <custom-block s="$robot popup %txt">
        <block s="reportJoinWords">
          <list>
            <l>Primitive < </l>
            <block var="primitive"/>
            <l> > is not in the aivaible primitives of your robot : </l>
            <custom-block s="combine with %repRing items of %l">
              <block s="reifyReporter">
                <autolambda>
                  <custom-block s="join words %mult%txt">
                    <list>
                      <l/>
                      <l/>
                    </list>
                  </custom-block>
                </autolambda>
                <list/>
              </block>
              <block var="all primitives"/>
            </custom-block>
```

```xml
            </list>
          </block>
        </custom-block>
        <block s="doReport">
          <l/>
        </block>
      </script>
      <script>
        <block s="doIfElse">
          <block s="reportNot">
            <block s="reportListContainsItem">
              <block var="keyword list"/>
              <block var="action"/>
            </block>
          </block>
          <script>
            <custom-block s="$robot popup %txt">
              <block s="reportJoinWords">
                <list>
                  <l>Action < </l>
                  <block var="action"/>
                  <l> > is not valid : </l>
                  <custom-block s="combine with %repRing items of %l">
                    <block s="reifyReporter">
                      <autolambda>
                        <custom-block s="join words %mult%txt">
                          <list>
                            <l/>
                            <l/>
                          </list>
                        </custom-block>
                      </autolambda>
                      <list/>
                    </block>
                    <block var="keyword list"/>
                  </custom-block>
                </list>
              </block>
            </custom-block>
            <block s="doReport">
              <l/>
            </block>
          </script>
          <script>
            <block s="doReport">
              <block s="reportURL">
                <block s="reportJoinWords">
                  <list>
                    <custom-block s="$robot robot URL"/>
                    <l>/primitive/</l>
                    <block var="primitive"/>
                    <l>/</l>
                    <block var="action"/>
                  </list>
                </block>
              </block>
            </block>
          </script>
        </block>
      </script>
    </block>
  </script>
</block>
```

```xml
      </script>
  </block-definition>
  <block-definition s="$robot get %'input' of behaviour %'primitive'"
type="reporter" category="sensing">
    <header/>
    <code/>
    <translations/>
    <inputs>
      <input type="%s" readonly="true">
        methodes
        <options>methodes properties</options>
      </input>
      <input type="%txt"/>
    </inputs>
    <script>
      <block s="doDeclareVariables">
        <list>
          <l>all primitives</l>
          <l>keyword list</l>
        </list>
      </block>
      <block s="doSetVar">
        <l>all primitives</l>
        <custom-block s="$robot get %s behaviours">
          <l>all</l>
        </custom-block>
      </block>
      <block s="doSetVar">
        <l>keyword list</l>
        <block s="reportNewList">
          <list>
            <l>properties</l>
            <l>methodes</l>
          </list>
        </block>
      </block>
      <block s="doIfElse">
        <block s="reportNot">
          <block s="reportListContainsItem">
            <block var="all primitives"/>
            <block var="primitive"/>
          </block>
        </block>
        <script>
          <custom-block s="$robot popup %txt">
            <block s="reportJoinWords">
              <list>
                <l>Primitive </l>
                <block var="primitive"/>
                <l> is not in the aivaible primitives of your robot : </l>
                <custom-block s="combine with %repRing items of %l">
                  <block s="reifyReporter">
                    <autolambda>
                      <custom-block s="join words %mult%txt">
                        <list>
                          <l/>
                          <l/>
                        </list>
                      </custom-block>
                    </autolambda>
                    <list/>
```

```
            </block>
            <block var="all primitives"/>
          </custom-block>
        </list>
      </block>
    </custom-block>
    <block s="doReport">
      <l/>
    </block>
  </script>
  <script>
    <block s="doIfElse">
      <block s="reportNot">
        <block s="reportListContainsItem">
          <block var="keyword list"/>
          <block var="input"/>
        </block>
      </block>
      <script>
        <custom-block s="$robot popup %txt">
          <block s="reportJoinWords">
            <list>
              <l>Input </l>
              <block var="input"/>
              <l> is not valid : </l>
              <custom-block s="combine with %repRing items of %l">
                <block s="reifyReporter">
                  <autolambda>
                    <custom-block s="join words %mult%txt">
                      <list>
                        <l/>
                        <l/>
                      </list>
                    </custom-block>
                  </autolambda>
                  <list/>
                </block>
                <block var="keyword list"/>
              </custom-block>
            </list>
          </block>
        </custom-block>
        <block s="doReport">
          <l/>
        </block>
      </script>
      <script>
        <block s="doReport">
          <block s="reportTextSplit">
            <block s="reportURL">
              <block s="reportJoinWords">
                <list>
                  <custom-block s="$robot robot URL"/>
                  <l>/primitive/</l>
                  <block var="primitive"/>
                  <l>/</l>
                  <block var="input"/>
                </list>
              </block>
            </block>
            <l>/</l>
```

```xml
                </block>
              </block>
            </script>
          </block>
        </script>
      </block>
    </script>
  </block-definition>
  <block-definition s="set $robot host to %'hostname'" type="command"
category="variables">
    <header/>
    <code/>
    <translations/>
    <inputs>
      <input type="%s"/>
    </inputs>
    <script>
      <block s="doSetVar">
        <l>host</l>
        <block var="hostname"/>
      </block>
      <block s="doDeclareVariables">
        <list>
          <l>tmp_hostname</l>
        </list>
      </block>
      <block s="doResetTimer"/>
      <block s="doUntil">
        <block s="reportGreaterThan">
          <block s="getTimer"/>
          <l>10</l>
        </block>
        <script>
          <block s="doSetVar">
            <l>tmp_hostname</l>
            <block s="reportURL">
              <block s="reportJoinWords">
                <list>
                  <custom-block s="$robot robot URL"/>
                  <l>/ip/</l>
                </list>
              </block>
            </block>
          </block>
          <block s="doIf">
            <block s="reportGreaterThan">
              <block s="reportStringSize">
                <block var="tmp_hostname"/>
              </block>
              <l>1</l>
            </block>
            <script>
              <block s="doSetVar">
                <l>host</l>
                <block var="tmp_hostname"/>
              </block>
              <block s="bubble">
                <custom-block s="$robot test connection"/>
              </block>
              <block s="doReport">
                <l/>
```

```
            </block>
          </script>
        </block>
        <block s="doWait">
          <l>0.1</l>
        </block>
      </script>
    </block>
    <custom-block s="$robot popup %txt">
      <l>Your robot host is unreacheble</l>
    </custom-block>
  </script>
</block-definition>
<block-definition s="ping http:// %'url'" type="predicate"
category="operators">
  <header/>
  <code/>
  <translations/>
  <inputs>
    <input type="%s"/>
  </inputs>
  <script>
    <block s="doResetTimer"/>
    <block s="doWaitUntil">
      <block s="reportOr">
        <block s="reportGreaterThan">
          <block s="getTimer"/>
          <l>5</l>
        </block>
        <block s="reportGreaterThan">
          <block s="reportStringSize">
            <block s="reportURL">
              <block var="url"/>
            </block>
          </block>
          <l>1</l>
        </block>
      </block>
    </block>
    <block s="doIfElse">
      <block s="reportLessThan">
        <block s="getTimer"/>
        <l>5</l>
      </block>
      <script>
        <block s="doReport">
          <block s="reportBoolean">
            <l>
              <bool>true</bool>
            </l>
          </block>
        </block>
      </script>
      <script>
        <block s="doReport">
          <block s="reportBoolean">
            <l>
              <bool>false</bool>
            </l>
          </block>
        </block>
```

```xml
        </script>
      </block>
    </script>
  </block-definition>
  <block-definition s="play move %'record_name' | speed x %'speed'"
  type="command" category="control">
    <comment x="0" y="0" w="230.00000099999988" collapsed="false">Play the
    movement of a previous recorded move. The <record_name> input is the
    name of a .record filename which should be in the same directory where
    you started the web server (with the command "$robot-snap $robot-ergo"
    for example). You can change the play speed with the <speed> input.
    </comment>
    <header/>
    <code/>
    <translations/>
    <inputs>
      <input type="%txt">move_name</input>
      <input type="%n">1</input>
    </inputs>
    <script>
      <block s="doDeclareVariables">
        <list>
          <l>time</l>
        </list>
      </block>
      <block s="doDeclareVariables">
        <list>
          <l>wait</l>
        </list>
      </block>
      <block s="doSetVar">
        <l>wait</l>
        <block s="reportBoolean">
          <l>
            <bool>true</bool>
          </l>
        </block>
      </block>
      <block s="doIfElse">
        <block s="reportListContainsItem">
          <custom-block s="$robot all recorded moves"/>
          <block var="record_name"/>
        </block>
        <script>
          <block s="doSetVar">
            <l>time</l>
            <block s="reportURL">
              <block s="reportJoinWords">
                <list>
                  <custom-block s="$robot robot URL"/>
                  <l>/primitive/MovePlayer/</l>
                  <block var="record_name"/>
                  <l>/start/</l>
                  <block var="speed"/>
                </list>
              </block>
            </block>
          </block>
          <block s="doIf">
            <block var="wait"/>
            <script>
```

```xml
            <block s="doWait">
              <block var="time"/>
            </block>
          </script>
          <comment w="90" collapsed="false">ugly wait to stop feature.
          TODO : change with a looking at running primitive</comment>
        </block>
      </script>
      <script>
        <custom-block s="$robot popup %txt">
          <block s="reportJoinWords">
            <list>
              <l>Error : <</l>
              <block var="record_name"/>
              <l>> is not is the avaible records (look at the block $robot
              all records to see all recorded moves) </l>
              <custom-block s="$robot all recorded moves"/>
            </list>
          </block>
        </custom-block>
      </script>
    </block>
    <block s="doReport">
      <block var="record_name"/>
    </block>
  </script>
</block-definition>
<block-definition s="$robot set color leds of motor(s) %'motor_name' in
%'color'" type="command" category="control">
  <header/>
  <code/>
  <translations/>
  <inputs>
    <input type="%s">motor_name</input>
    <input type="%txt">
      off
      <options>off red green yellow blue pink cyan white</options>
    </input>
  </inputs>
  <script>
    <custom-block s="$robot set %txt of motor(s) %s to %s">
      <l>led</l>
      <block var="motor_name"/>
      <block var="color"/>
    </custom-block>
  </script>
</block-definition>
<block-definition s="$robot card %'card' is detected ?" type="predicate"
category="sensing">
  <header/>
  <code/>
  <translations/>
  <inputs>
    <input type="%txt">
      caribou
      <options>caribou tetris lapin</options>
    </input>
  </inputs>
  <script>
    <block s="doDeclareVariables">
      <list>
```

```
        <l>output</l>
      </list>
    </block>
    <block s="doSetVar">
      <l>output</l>
      <block s="reportURL">
        <block s="reportJoinWords">
          <list>
            <custom-block s="$robot robot URL"/>
            <l>/detect/</l>
            <block var="card"/>
          </list>
        </block>
      </block>
    </block>
    <block s="doIfElse">
      <block s="reportEquals">
        <block var="output"/>
        <l>True</l>
      </block>
      <script>
        <block s="doReport">
          <block s="reportBoolean">
            <l>
              <bool>true</bool>
            </l>
          </block>
        </block>
      </script>
      <script>
        <block s="doReport">
          <block s="reportBoolean">
            <l>
              <bool>false</bool>
            </l>
          </block>
        </block>
      </script>
    </block>
  </script>
</block-definition>
<block-definition s="Leap $flag" type="command" category="other">
  <header/>
  <code/>
  <translations/>
  <inputs/>
  <script>
    <block s="doRun">
      <block s="reportJSFunction">
        <list/>
        <block s="reportURL">
          <l>crossorigin.me/http://js.leapmotion.com/leap-
          0.6.4.min.js</l>
        </block>
      </block>
      <list/>
    </block>
    <block s="doRun">
      <block s="reportJSFunction">
        <list/>
```

```
          <l>window.controller = new Leap.Controller({enableGestures: true,
          background: true}); window.controller.connect();</l>
        </block>
        <list/>
      </block>
    </script>
  </block-definition>
  <block-definition s="Leap number of hands" type="reporter"
category="other">
    <header/>
    <code/>
    <translations/>
    <inputs/>
    <script>
      <block s="doReport">
        <block s="evaluate">
          <block s="reportJSFunction">
            <list/>
            <l>return window.controller.frame(0).hands.length;</l>
          </block>
          <list/>
        </block>
      </block>
    </script>
  </block-definition>
  <block-definition s="Leap %'pos' position of hand %'num'"
type="reporter" category="other">
    <header/>
    <code/>
    <translations/>
    <inputs>
      <input type="%txt">x</input>
      <input type="%n">1</input>
    </inputs>
    <script>
      <block s="doDeclareVariables">
        <list>
          <l>a</l>
        </list>
      </block>
      <block s="doIfElse">
        <block s="reportAnd">
          <block s="reportListContainsItem">
            <block s="reportNewList">
              <list>
                <l>x</l>
                <l>y</l>
                <l>z</l>
              </list>
            </block>
            <block var="pos"/>
          </block>
          <block s="reportNot">
            <block s="reportGreaterThan">
              <block var="num"/>
              <custom-block s="Leap number of hands"/>
            </block>
          </block>
        </block>
        <script>
          <block s="doReport">
```

```
          <block s="evaluate">
            <block s="reportJSFunction">
              <list>
                <l>pos</l>
                <l>num</l>
              </list>
              <l>var a = {x:0, y:1, z:2}[pos]; return
              window.controller.frame(0).hands[num-
              1].stabilizedPalmPosition[a];</l>
            </block>
            <list>
              <block var="pos"/>
              <block var="num"/>
            </list>
          </block>
        </block>
      </script>
      <script>
        <block s="doReport">
          <l>0</l>
        </block>
      </script>
    </block>
  </script>
</block-definition>
<block-definition s="Leap %'pos' rotation of hand %'num'"
type="reporter" category="other">
  <header/>
  <code/>
  <translations/>
  <inputs>
    <input type="%txt">yaw</input>
    <input type="%n">1</input>
  </inputs>
  <script>
    <block s="doIfElse">
      <block s="reportAnd">
        <block s="reportListContainsItem">
          <block s="reportNewList">
            <list>
              <l>yaw</l>
              <l>pitch</l>
              <l>roll</l>
            </list>
          </block>
          <block var="pos"/>
        </block>
        <block s="reportNot">
          <block s="reportGreaterThan">
            <block var="num"/>
            <custom-block s="Leap number of hands"/>
          </block>
        </block>
      </block>
      <script>
        <block s="doReport">
          <block s="evaluate">
            <block s="reportJSFunction">
              <list>
                <l>pos</l>
                <l>num</l>
```

```
          </list>
          <l>var f = window.controller.frame(0); switch (pos){ case
          "yaw": return f.hands[num-1].yaw(); case "pitch": return
          f.hands[num-1].pitch(); case "roll": return f.hands[num-
          1].roll(); }; </l>
        </block>
        <list>
          <block var="pos"/>
          <block var="num"/>
        </list>
      </block>
    </block>
  </script>
  <script>
    <block s="doReport">
      <l>0</l>
    </block>
  </script>
  </block>
  </script>
</block-definition>
<block-definition s="Leap %'pos' position of finger %'num'"
type="reporter" category="other">
  <header/>
  <code/>
  <translations/>
  <inputs>
    <input type="%txt">x</input>
    <input type="%n">1</input>
  </inputs>
  <script>
    <block s="doIfElse">
      <block s="reportAnd">
        <block s="reportListContainsItem">
          <block s="reportNewList">
            <list>
              <l>x</l>
              <l>y</l>
              <l>z</l>
            </list>
          </block>
          <block var="pos"/>
        </block>
        <block s="reportNot">
          <block s="reportGreaterThan">
            <block var="num"/>
            <block s="evaluate">
              <block s="reportJSFunction">
                <list/>
                <l>return window.controller.frame(0).fingers.length;</l>
              </block>
              <list/>
            </block>
          </block>
        </block>
      </block>
      <script>
        <block s="doReport">
          <block s="evaluate">
            <block s="reportJSFunction">
              <list>
```

```xml
        <l>pos</l>
        <l>num</l>
      </list>
      <l>var a = {x:0, y:1, z:2}[pos]; return
      window.controller.frame(0).fingers[num-
      1].stabilizedTipPosition[a];</l>
    </block>
    <list>
      <block var="pos"/>
      <block var="num"/>
    </list>
  </block>
</block>
    </script>
    <script>
      <block s="doReport">
        <l>0</l>
      </block>
    </script>
  </block>
</script>
</block-definition>
<block-definition s="Leap hand %'num' is pinching" type="predicate"
category="other">
  <header/>
  <code/>
  <translations/>
  <inputs>
    <input type="%s">1</input>
  </inputs>
  <script>
    <block s="doIfElse">
      <block s="reportNot">
        <block s="reportGreaterThan">
          <block var="num"/>
          <custom-block s="Leap number of hands"/>
        </block>
      </block>
      <script>
        <block s="doReport">
          <block s="reportGreaterThan">
            <block s="evaluate">
              <block s="reportJSFunction">
                <list>
                  <l>num</l>
                </list>
                <l>return window.controller.frame(0).hands[num-
                1].pinchStrength;</l>
              </block>
              <list>
                <block var="num"/>
              </list>
            </block>
            <l>0.75</l>
          </block>
        </block>
      </script>
      <script>
        <block s="doReport">
          <block s="reportBoolean">
            <l>
```

```
            <bool>false</bool>
          </l>
        </block>
      </block>
    </script>
  </block>
</script>
</block-definition>
<block-definition s="Leap pinch strength of hand %'num'" type="reporter"
category="other">
  <header/>
  <code/>
  <translations/>
  <inputs>
    <input type="%n">1</input>
  </inputs>
  <script>
    <block s="doIfElse">
      <block s="reportNot">
        <block s="reportGreaterThan">
          <block var="num"/>
          <custom-block s="Leap number of hands"/>
        </block>
      </block>
      <script>
        <block s="doReport">
          <block s="reportProduct">
            <block s="evaluate">
              <block s="reportJSFunction">
                <list>
                  <l>num</l>
                </list>
                <l>return window.controller.frame(0).hands[num-
                1].pinchStrength;</l>
              </block>
              <list>
                <block var="num"/>
              </list>
            </block>
            <l>100</l>
          </block>
        </block>
      </script>
      <script>
        <block s="doReport">
          <l>0</l>
        </block>
      </script>
    </block>
  </script>
</block-definition>
<block-definition s="nombre doigts tendus" type="reporter"
category="other">
  <header/>
  <code/>
  <translations/>
  <inputs/>
  <script>
    <block s="doIfElse">
      <block s="reportGreaterThan">
        <custom-block s="Leap number of hands"/>
```

```xml
      <l>0</l>
    </block>
    <script>
      <block s="doReport">
        <block s="evaluate">
          <block s="reportJSFunction">
            <list/>
            <l>var num = 0; for(var f = 0; f <
            window.controller.frame(0).hands[0].fingers.length; f++){var
            finger = window.controller.frame(0).hands[0].fingers[f];
            if(finger.extended) num++;} return num;</l>
          </block>
          <list/>
        </block>
      </block>
    </script>
    <script>
      <block s="doReport">
        <l>-1</l>
      </block>
    </script>
  </block>
</script>
</block-definition>
<block-definition s="Detection extension doigt %'num'" type="predicate"
category="other">
  <header/>
  <code/>
  <translations/>
  <inputs>
    <input type="%n"/>
  </inputs>
  <script>
    <block s="doIfElse">
      <block s="reportGreaterThan">
        <custom-block s="Leap number of hands"/>
        <l>0</l>
      </block>
      <script>
        <block s="doReport">
          <block s="evaluate">
            <block s="reportJSFunction">
              <list>
                <l>num</l>
              </list>
              <l>return window.controller.frame(0).hands[0].fingers[num-
              1].extended</l>
            </block>
            <list>
              <block var="num"/>
            </list>
          </block>
        </block>
      </script>
      <script>
        <block s="doReport">
          <block s="reportBoolean">
            <l>
              <bool>false</bool>
            </l>
          </block>
```

```
        </block>
      </script>
    </block>
  </script>
</block-definition>
<block-definition s="initialisation" type="command" category="control">
  <header/>
  <code/>
  <translations/>
  <inputs/>
  <script>
    <custom-block s="$robot set position(s) %n of motor(s) %s in %n
    seconds | wait ? %boolUE">
      <l>-70</l>
      <l>m5</l>
      <l>1</l>
      <block s="reportBoolean">
        <l>
          <bool>true</bool>
        </l>
      </block>
    </custom-block>
    <custom-block s="$robot set position(s) %n of motor(s) %s in %n
    seconds | wait ? %boolUE">
      <l>0</l>
      <l>m6</l>
      <l>1</l>
      <block s="reportBoolean">
        <l>
          <bool>true</bool>
        </l>
      </block>
    </custom-block>
    <custom-block s="$robot set position(s) %n of motor(s) %s in %n
    seconds | wait ? %boolUE">
      <l>50</l>
      <l>m3</l>
      <l>1</l>
      <block s="reportBoolean">
        <l>
          <bool>true</bool>
        </l>
      </block>
    </custom-block>
    <custom-block s="$robot set position(s) %n of motor(s) %s in %n
    seconds | wait ? %boolUE">
      <l>0</l>
      <l>m4</l>
      <l>2</l>
      <l/>
    </custom-block>
    <custom-block s="$robot set position(s) %n of motor(s) %s in %n
    seconds | wait ? %boolUE">
      <l>0</l>
      <l>m1</l>
      <l>2</l>
      <l/>
    </custom-block>
    <custom-block s="$robot set position(s) %n of motor(s) %s in %n
    seconds | wait ? %boolUE">
      <l>-50</l>
```

```xml
            <l>m2</l>
            <l>1</l>
            <block s="reportBoolean">
              <l>
                <bool>true</bool>
              </l>
            </block>
          </custom-block>
          <custom-block s="$robot set color leds of motor(s) %s in %txt">
            <custom-block s="$robot all motors"/>
            <l>off</l>
          </custom-block>
          <block s="doWait">
            <l>1</l>
          </block>
          <block s="doBroadcast">
            <l>moveRobot</l>
          </block>
        </script>
      </block-definition>
    </blocks>
    <variables>
      <variable name="host">
        <l>192.168.0.33</l>
      </variable>
      <variable name="port">
        <l>6969</l>
      </variable>
      <variable name="nbdoigts">
        <l>-1</l>
      </variable>
      <variable name="choix">
        <l>0</l>
      </variable>
      <variable name="humain">
        <l>2</l>
      </variable>
      <variable name="robot">
        <l>2</l>
      </variable>
      <variable name="D">
        <list id="3817">
          <item>
            <list struct="atomic" id="3818">2,3,1</list>
          </item>
          <item>
            <list struct="atomic" id="3819">1,2,3</list>
          </item>
          <item>
            <list struct="atomic" id="3820">3,1,2</list>
          </item>
        </list>
      </variable>
      <variable name="gain">
        <l>1</l>
      </variable>
      <variable name="winner">
        <list struct="atomic" id="3821">humain,personne,robot</list>
      </variable>
      <variable name="position">
        <list struct="atomic" id="3822">pierre,feuille,ciseaux</list>
```

```xml
    </variable>
    <variable name="choix_R">
      <l>feuille</l>
    </variable>
    <variable name="ang">
      <list struct="atomic" id="3823">110,50,-30</list>
    </variable>
  </variables>
</project>
```