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VariableFrame {}</parms_list><tempvars_delim>Context &gt;&gt; a
CommandBlockMorph (&quot;script variables %scriptVars...&quot;) a
VariableFrame {}</tempvars_delim><doSetVar>Context &gt;&gt; a
CommandBlockMorph (&quot;script variables %scriptVars...&quot;) a
VariableFrame {}</doSetVar></code><blocks><block-definition
s="$robot motors in group %&apos;alias&apos;" 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></header><code></code><translations></
```

```

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="$robot robot URL"></custom-block><l>/motors/</l><block
var="alias"/></list></block></block></block><block
s="doIfElse"><block s="reportEquals"><block var="output"/><l></l></
block><script><custom-block s="$robot popup %txt"><block
s="reportJoinWords"><list><l>Group &lt; </l><block var="alias"/><l>
&gt; 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><l></l></list></custom-block></
autolambda><list></list></block><custom-block s="$robot all motors
groups"></custom-block></custom-block></list></block></custom-
block><block s="doReport"><l></l></block></script><script><block
s="doReport"><block s="reportTextSplit"><block var="output"/><l></
l></block></block></script></block></script></block-
definition><block-definition s="$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></header><code></code><translations></
translations><inputs></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 &quot;$robot all motors&quot;
block list.&#xD;&#xD;Usefull for some advanced programs.</
comment><header></header><code></code><translations></
translations><inputs></inputs><script><block s="doReport"><block
s="reportTextSplit"><block s="reportURL"><block
s="reportJoinWords"><list><custom-block s="$robot robot URL"></
custom-block><l>/motors/get/positions</l></list></block></
block><l>;</l></block></block></script></block-definition><block-
definition s="$robot get &apos;register&apos; of motor(s)
&apos;motors&apos;" type="reporter" category="sensing"><comment
x="0" y="0" w="230.0000009999999" collapsed="false">Get a defined
&lt;register&gt; &lt;value&gt; of one motor.&#xD;Example of some
registers : torque_limit, angle_limit, present_temperature,
present_position...&#xD;For more informations about registers, look
at the online documentation : http://\$robot-project.github.io/pypot/
&#xD;</comment><header></header><code></code><translations></
translations><inputs><input
type="%s">present_position<options>position=present_position
speed=present_speed
load (force)=present_load
temperature=present_temperature
voltage=present_voltage</options></input><input
type="%s">motor_name</input></inputs><script><block
s="doDeclareVariables"><list><l>output</l><l>complete motor list</
l></list></block><block s="doSetVar"><l>complete motor list</
l><custom-block s="$robot all motors"></custom-block></block><block
s="doIf"><block s="reportNot"><block s="reportIsA"><block

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var="motors"/><l><option>list</option></l></block></
block><script><block s="doIfElse"><block s="report0r"><block
s="reportIsIdentical"><block var="motors"/><l>all</l></block><block
s="reportIsIdentical"><block var="motors"/><l></l></block></
block><script><block s="doSetVar"><l>motors</l><custom-block
s="$robot all motors"></custom-block></block></script><script><block
s="doSetVar"><l>motors</l><block s="reportTextSplit"><block
var="motors"/><l><option>whitespace</option></l></block></block></
script></block></script></block><custom-block s="for each %upvar of
%l %cs"><l>m</l><block var="motors"/><script><block s="doIf"><block
s="reportNot"><block s="reportListContainsItem"><block var="complete
motor list"/><block var="m"/></block></block><script><custom-block
s="$robot popup %txt"><block s="reportJoinWords"><list><l>Motor &lt;
</l><block var="m"/><l> &gt; 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><l></l></list></custom-block></
autolambda><list></list></block><block var="complete motor list"/></
custom-block></list></block></custom-block><block s="doReport"><l></
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="$robot robot URL"></
custom-block><l>/motors/</l><custom-block s="combine with %repRing
items of %l"><block s="reifyReporter"><autolambda><block
s="reportJoinWords"><list><block var="#1"/><l>;</l><block var="#2"/
></list></block></autolambda><list><l>#1</l><l>#2</l></list></
block><block var="motors"/></custom-block><l>/get/</l><block
var="register"/></list></block></block></block></
script><script><block s="doReport"><block s="reportTextSplit"><block
s="reportURL"><block s="reportJoinWords"><list><custom-block
s="$robot robot URL"></custom-block><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 %&apos;motor&apos;" type="reporter"
category="sensing"><comment x="0" y="0" w="109"
collapsed="false">Return the index of a motor name in the &quot;
$robot all motors&quot;; block list</comment><header></
header><code></code><translations></translations><inputs><input
type="%txt">motor_name</input></inputs><script><block
s="doDeclareVariables"><list><l>i</l><l>complete motor list</l></
list></block><block s="doSetVar"><l>complete motor list</l><custom-
block s="$robot all motors"></custom-block></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="$robot
popup %txt"><block s="reportJoinWords"><list><l>Motor &lt; /
l><block var="motor"/><l>&gt; is not in the aivaible motors of your
robot : </l><custom-block s="combine with %repRing items of
%l"><block s="reifyReporter"><autolambda><custom-block s="join words
%mult%txt"><list><l></l><l></l></list></custom-block></
autolambda><list></list></block><block var="complete motor list"/></
custom-block></list></block></custom-block><block s="doReport"><l></
l></block></script></block-definition><block-definition s="$robot
robot URL" type="reporter" category="sensing"><comment x="0" y="0"
w="117.00000000000001" collapsed="false">For internal use only</
comment><header></header><code></code><translations></
translations><inputs></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="$robot set motor(s)
%&apos;motor&apos; ; %&apos;compliant&apos;" type="command"
category="control"><comment x="0" y="0" w="230.0000009999999"
collapsed="false">Compliance property make motors activly become
soft and movable.&#xD;You need to activate the compliance if you
want to record a movement by demonstration.&#xD;&#xD;The motor(s)
input can accept :&#xD;- string of a motor name&#xD;- string of many
motors separed with spaces&#xD;- a Snap! list of motors like the
reporter block &quot;$robot all motors&quot;</comment><header></
header><code></code><translations></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="report0r"><block s="reportEquals"><block
var="compliant"/><l>compliant</l></block><block var="compliant"/></
block><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)
%&apos;position&apos; of motor(s) %&apos;motors&apos; in
%&apos;duration&apos; seconds | wait ? %&apos;wait&apos;"
type="command" category="control"><comment x="0" y="0"
w="230.0000009999999" collapsed="false">set motor to the desired
position (angle) in the desired time.&#xD;&#xD;The motor(s) input
can accept :&#xD;- string of a motor name&#xD;- string of many
motors separed with spaces&#xD;- a Snap! list of motors like the
reporter block &quot;$robot all motors&quot;</comment><header></
header><code></code><translations></translations><inputs><input
type="%n">0</input><input type="%s">motor_name</input><input
type="%n">2</input><input type="%boolUE"></input></
inputs><script><block s="doDeclareVariables"><list><l>output</
l><l>complete motor list</l><l>i</l><l>mot_pos</l><l>query_URL</
l></list></block><block s="doSetVar"><l>mot_pos</l><block
s="reportNewList"><list></list></block></block><block
s="doSetVar"><l>i</l><l>1</l></block><block s="doSetVar"><l>complete
motor list</l><custom-block s="$robot all motors"></custom-block></
block><block s="doIf"><block s="reportNot"><block

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s="reportIsA"><block var="motors"/><l><option>list</option></l></
block></block><script><block s="doIfElse"><block
s="reportIsIdentical"><block var="motors"/><l></l></
block><script><block s="doSetVar"><l>motors</l><custom-block
s="$robot all motors"></custom-block></block></script><script><block
s="doSetVar"><l>motors</l><block s="reportTextSplit"><block
var="motors"/><l><option>whitespace</option></l></block></block></
script></block></script></block><custom-block s="for each %upvar of
%l %cs"><l>m</l><block var="motors"/><script><block
s="doIfElse"><block s="reportNot"><block
s="reportListContainsItem"><block var="complete motor list"/><block
var="m"/></block></block><script><custom-block s="$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><l></l></list></custom-block></
autolambda><list></list></block><block var="complete motor list"/></
custom-block></list></block></custom-block><block s="doReport"><l></
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>query_URL</l><block
s="reportURL"><block s="reportJoinWords"><list><custom-block
s="$robot robot URL"></custom-block><l>/motors/set/goto/</l><block
s="reportJoinWords"><list><custom-block s="combine with %repRing
items of %l"><block s="reifyReporter"><autolambda><block
s="reportJoinWords"><list><block var="#1"/><l>:</l><block
var="duration"/><l>;</l><block var="#2"/></list></block></
autolambda><list><l>#1</l><l>#2</l></list></block><block
var="mot_pos"/></custom-block><l>:</l><block var="duration"/></
list></block></list></block></block></block></block><block
s="doIfElse"><block s="evaluate"><block var="wait"/><list></list></
block><script><block s="doRun"><block
s="reifyReporter"><autolambda><block var="query_URL"/></
autolambda><list></list></block><list></list></block><block
s="doWait"><block var="duration"/></block></script><script><block
s="doReport"><block var="query_URL"/></block></script></block></
script></block-definition><block-definition s="$robot reset
'simulation'" type="command" category="control"><comment
x="0" y="0" w="182" collapsed="false">Reset the simulation in V-
rep.&#xD;It is usefull if you have connection issues with V-rep.</
comment><header></header><code></code><translations></
translations><inputs><input type="%s"
readonly="true">robot<options>robot
simulation</options></input></inputs><script><block
s="doIfElse"><block s="reportEquals"><block var="simulation"/

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```
><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></
list></block><list></list></block></autolambda><list></list></
block><list></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></list></block><list></list></
block></autolambda><list></list></block><list></list></block></
script><script><block s="doReport"><block s="reportURL"><block
s="reportJoinWords"><list><custom-block s="$robot robot URL"></
custom-block><l>/reset-simulation</l></list></block></block></
block></script></block></script></block-definition><block-definition
s="$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></header><code></code><translations></
translations><inputs></inputs><script><block s="doReport"><block
s="reportTextSplit"><block s="reportURL"><block
s="reportJoinWords"><list><custom-block s="$robot robot URL"></
custom-block><l>/primitive/MovePlayer</l></list></block></block><l>/
</l></block></block></script></block-definition><block-definition
s="append %&apos;lists&apos;" 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&#xD; APPEND [A B] [C
D]&#xD;where the [, , ,] are lists reports the list&#xD;
[A B C D]&#xD;not [[A B] [C D]].</comment><header></header><code></
code><translations></translations><inputs><input type="%mult%l"></
input></inputs><script><block s="doWarp"><script><block
s="doIf"><block s="reportEquals"><block var="lists"/><block
s="reportNewList"><list></list></block></block><script><block
s="doReport"><block s="reportNewList"><list></list></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></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"/></block></block></custom-block></block></block></
script></block></script></block-definition><block-definition
s="reverse %&apos;data&apos;" type="reporter"
category="lists"><comment x="0" y="0" w="223.00000000000003"
```

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collapsed="false">Reports a new list containing the items of the
input list, but in the opposite order.</comment><header></
header><code></code><translations></translations><inputs><input
type="%l"></input></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></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><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></list></block></list></block></block></
script></block></script></block-definition><block-definition
s="remove duplicates from %&apos;data&apos;" type="reporter"
category="lists"><comment x="0" y="0" w="209.00000000000003"
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></header><code></code><translations></
translations><inputs><input type="%l"></input></
inputs><script><block s="doWarp"><script><block s="doIf"><block
s="reportEquals"><block var="data"/><block
s="reportNewList"><list></list></block></block><script><block
s="doReport"><block s="reportNewList"><list></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 %&apos;data&apos;
ordering with %&apos;function&apos;" type="reporter"
category="lists"><comment x="0" y="0" w="204.00000000000003"
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 &lt; as the comparison function will
sort from low to high; using &gt; will sort from high to low.</
comment><header></header><code></code><translations></
translations><inputs><input type="%l"></input><input
type="%predRing"></input></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></l><block s="reportNewList"><list></list></
block></block><script><block s="doReport"><block

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s="reportNewList"><list></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></list></block></block><block
s="doSetVar"><l>even items</l><block s="reifyScript"><script><block
s="doIf"><block s="reportEquals"><l></l><block
s="reportNewList"><list></list></block></block><script><block
s="doReport"><block s="reportNewList"><list></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></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></
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></
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></list></block></
block><script><block s="doReport"><block s="reportNewList"><list></
list></block></block></script></block><block s="doIf"><block
s="reportEquals"><block s="reportCDR"><block var="data"/></
block><block s="reportNewList"><list></list></block></
block><script><block s="doReport"><block var="data"/></block></
script></block><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="$robot set
%&apos;register&apos; of motor(s) %&apos;motors&apos; to
%&apos;value&apos;" type="command" category="control"><comment x="0"
y="0" w="230.0000009999999" collapsed="false">Set a defined
<value> to a defined <register> of one or many
motors.&#xD;Example of some registers : torque_limit, angle_limit,
safe_compliant, compliant...&#xD;For more informations about
registers, look at the online documentation : http://$robot-

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project.github.io/pypot/&#xD;&#xD;The motor(s) input can
accept :&#xD;- string of a motor name&#xD;- string of many motors
separed with spaces&#xD;- a Snap! list of motors like the reporter
block &quot;$robot all motors&quot;</comment><header></
header><code></code><translations></translations><inputs><input
type="%txt"><options>position=goal_position
speed=moving_speed
max torque(%)=torque_limit
compliance(True or False)=compliant</options></input><input
type="%s">motor_name</input><input type="%s">value(s)</input></
inputs><script><block s="doDeclareVariables"><list><l>output</
l><l>complete motor list</l></list></block><block
s="doSetVar"><l>complete motor list</l><custom-block s="$robot all
motors"></custom-block></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="reportIsIdentical"><block var="motors"/
><l>all</l></block><script><block s="doSetVar"><l>motors</l><custom-
block s="$robot all motors"></custom-block></block></
script><script><block s="doSetVar"><l>motors</l><block
s="reportTextSplit"><block var="motors"/><l><option>whitespace</
option></l></block></block></script></block></script></
block><custom-block s="for each %upvar of %l %cs"><l>m</l><block
var="motors"/><script><block s="doIf"><block s="reportNot"><block
s="reportListContainsItem"><block var="complete motor list"/><block
var="m"/></block></block><script><custom-block s="$robot popup
%txt"><block s="reportJoinWords"><list><l>Motor &lt; </l><block
var="m"/><l> &gt; 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><l></l></list></custom-block></
autolambda><list></list></block><block var="complete motor list"/></
custom-block></list></block></custom-block><block s="doReport"><l></
l></block></script></block></script></custom-block><block
s="doReport"><block s="reportURL"><block
s="reportJoinWords"><list><custom-block s="$robot robot URL"></
custom-block><l>/motors/set/registers/</l><block
s="reportJoinWords"><list><custom-block s="combine with %repRing
items of %l"><block s="reifyReporter"><autolambda><block
s="reportJoinWords"><list><block var="#1"/><l>:</l><block
var="register"/><l>:</l><block var="value"/><l>;</l><block var="#2"/
></list></block></autolambda><list><l>#1</l><l>#2</l></list></
block><block var="motors"/></custom-block><l>:</l><block
var="register"/><l>:</l><block var="value"/></list></block></list></
block></block></block></script></block-definition><block-definition
s="$robot get &apos;running&apos; behaviours" type="reporter"
category="sensing"><header></header><code></code><translations></
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"></custom-block><l>/primitives/</l><l>running</

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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="$robot robot URL"></custom-block><l>/primitives</l><l></l></
list></block></block><l>/</l></block></block></script></block></
script></block-definition><block-definition s="$robot play move
%&apos;record_name&apos; | speed x %&apos;speed&apos;"
type="reporter" category="control"><comment x="0" y="0"
w="230.0000009999999" collapsed="false">Play the movement of a
previous recorded move. &#xD;&#xD;The &lt;record_name&gt; input is
the name of a .record filename which should be in the same directory
where you started the web server (with the command &quot;$robot-snap
$robot-ergo&quot; for example).&#xD;&#xD;You can change the play
speed with the &lt;speed&gt; input.</comment><header></
header><code></code><translations></translations><inputs><input
type="%txt">move_name</input><input type="%n">1</input></
inputs><script><block s="doDeclareVariables"><list><l>time</l></
list></block><block s="doDeclareVariables"><list><l>wait</l></
list></block><block s="doSetVar"><l>wait</l><block
s="reportBoolean"><l><bool>>true</bool></l></block></block><block
s="doIfElse"><block s="reportListContainsItem"><custom-block
s="$robot all recorded moves"></custom-block><block
var="record_name"/></block><script><block s="doSetVar"><l>time</
l><block s="reportURL"><block s="reportJoinWords"><list><custom-
block s="$robot robot URL"></custom-block><l>/primitive/MovePlayer/
</l><block var="record_name"/><l>/start</l><block var="speed"/></
list></block></block></block><block s="doIf"><block var="wait"/
><script><block s="doWait"><block var="time"/></block></
script><comment w="90" collapsed="false">ugly wait to stop
feature.&#xD;TODO : change with a looking at running primitive</
comment></block></script><script><custom-block s="$robot popup
%txt"><block s="reportJoinWords"><list><l>Error : &lt;</l><block
var="record_name"/><l>&gt; is not is the available records (look at
the block $robot all records to see all recorded moves) </l><custom-
block s="$robot all recorded moves"></custom-block></list></block></
custom-block></script></block><block s="doReport"><block
var="record_name"/></block></script></block-definition><block-
definition s="$robot sequence %&apos;mov&apos;" type="reporter"
category="control"><header></header><code></code><translations></
translations><inputs><input type="%mult%repRing"></input></
inputs><script><block s="doDeclareVariables"><list><l>out</l></
list></block><block s="doSetVar"><l>out</l><l></l></block><custom-
block s="for each %upvar of %l %cs"><l>item</l><block var="mov"/
><script><block s="doSetVar"><l>out</l><block
s="reportJoinWords"><list><block s="reportCallCC"><block var="item"/
></block><l></l><block var="out"/></list></block></block></
script></custom-block><block s="doReport"><block var="out"/></
block></script></block-definition><block-definition s="$robot
concurrent %&apos;movements&apos;" type="reporter"
category="control"><comment x="0" y="0" w="202"
collapsed="false">All reports input are run concurently.&#xD;You can
use this block to play concurently many recorded move</
comment><header></header><code></code><translations></
translations><inputs><input type="%mult%repRing"></input></

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inputs><script><block s="doDeclareVariables"><list><l>results</l><l>iterator</l></list></block><block s="doSetVar"><l>results</l><l><block s="reportNewList"><list></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></list></block><list></list></block><block s="doChangeVar"><l>iterator</l><l>1</l></block><custom-block s="yield"></custom-block></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="sum %&apos;nums&apos;"; 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&#xD;ISUM (4) (100) (8))&#xD;reports 112.</comment><header></header><code></code><translations></translations><inputs><input type="%mult%n"></input></inputs><script><block s="doIf"><block s="reportEquals"><block var="nums"/><block s="reportNewList"><list></list></block></block><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></script></block-definition><block-definition s="product %&apos;nums&apos;"; 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&#xD;(PRODUCT (4) (100) (8))&#xD;reports 3200.</comment><header></header><code></code><translations></translations><inputs><input type="%mult%n"></input></inputs><script><block s="doIf"><block s="reportEquals"><block var="nums"/><block s="reportNewList"><list></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></script></block-definition><block-definition s="all of %&apos;preds&apos;"; type="predicate" category="operators"><comment x="0" y="0" w="248" 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></header><code></code><translations></translations><inputs><input type="%mult%boolUE"></input></inputs><script><block s="doIf"><block s="reportEquals"><block var="preds"/><block s="reportNewList"><list></list></block></

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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></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 %&apos;preds&apos;" type="predicate"
category="operators"><comment x="0" y="0" w="240.00000000000003"
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></header><code></code><translations></
translations><inputs><input type="%mult%boolUE"></input></
inputs><script><block s="doIf"><block s="reportEquals"><block
var="preds"/><block s="reportNewList"><list></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></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></
header><code></code><translations></translations><inputs></
inputs><script><block s="doWait"><l>0.000000000000001</l></block></
script></block-definition><block-definition s="$robot create &
start record move %&apos;record_name&apos; with motor(s)
%&apos;motors input&apos;" type="command"
category="control"><comment x="0" y="0" w="230.00000099999999"
collapsed="false">Create and start the record of a definined
move..&#xD;&#xD;The &lt;record_name&gt; input is used to store the
recorded move. The move is stored in the directory where you started
the web server (with the command &quot;$robot-snap $robot-ergo&quot;
for example), and can be replayed even if you close Snap! &#xD;
&#xD;The motor(s) input can accept :&#xD;- string of a motor
name&#xD;- string of many motors separed with spaces&#xD;- a Snap!
list of motors like the reporter block &quot;$robot all
motors&quot;&#xD;&#xD;If the motor(s) input is empty, all motors
will be recorded.</comment><header></header><code></
code><translations></translations><inputs><input
type="%s">move_name</input><input type="%s"></input></
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></list></block></block><block
s="doSetVar"><l>complete motor list</l><custom-block s="$robot all
motors"></custom-block></block><block s="doIf"><block
s="reportIsIdentical"><block var="record_name"/><l></l></
block><script><custom-block s="$robot popup %txt"><l>Input error,
record name must not be empty</l></custom-block><block
s="doReport"><l></l></block></script></block><block
s="doIfElse"><block s="reportEquals"><block var="motors input"/
><l></l></block><script><block s="doReport"><block

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s="reportURL"><block s="reportJoinWords"><list><custom-block
s="$robot robot URL"></custom-block><l>/primitive/MoveRecorder/</
l><block var="record_name"/><l>/start/</l><custom-block s="combine
with %repRing items of %l"><block
s="reifyReporter"><autolambda><block
s="reportJoinWords"><list><block var="#1"/><l>;</l><block var="#2"/
></list></block></autolambda><list><l>#1</l><l>#2</l></list></
block><custom-block s="$robot all motors"></custom-block></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"></custom-block></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></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"></
custom-block><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 %&apos;record_name&apos;";"

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type="command" category="control"><comment x="0" y="0" w="489"
collapsed="false">Stop recording the desired move record. &#xD;Be
careful, you must have previously defined a move record with the
'create move ... with motor(s) ...' block</
comment><header></header><code></code><translations></
translations><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="$robot robot URL"></
custom-block><l>/primitive/MoveRecorder/</l><block
var="record_name"/><l>/get_motors</l></list></block></block><l></
l></block></block><custom-block s="$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="$robot robot URL"></custom-block><l>/primitive/MoveRecorder/</
l><block var="record_name"/><l>/stop</l></list></block></block></
block></script></block-definition><block-definition s="$robot stop
move %&apos;record_name&apos;" type="command"
category="control"><header></header><code></code><translations></
translations><inputs><input type="%s">move_name</input></
inputs><script><block s="doReport"><block s="reportURL"><block
s="reportJoinWords"><list><custom-block s="$robot robot URL"></
custom-block><l>/primitive/MovePlayer/</l><block var="record_name"/
><l>/stop</l></list></block></block></block></script></block-
definition><block-definition s="$robot popup %&apos;message&apos;"
type="command" category="other"><header></header><code></
code><translations></translations><inputs><input type="%txt"></
input></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 %&apos;function&apos;
over %&apos;lists&apos;" type="reporter" category="lists"><comment
x="0" y="0" w="204.00000000000003" collapsed="false">Works as the
map block (see map help), but it proceeds iterations concurrently.</
comment><header></header><code></code><translations></
translations><inputs><input type="%repRing"></input><input
type="%mult%l"></input></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></list></
block></block><block s="doSetVar"><l>iterator</l><l>0</l></
block><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></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"/></

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block><block var="results"/></block></script><list></list></
block><list></list></block><custom-block s="yield"></custom-block></
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
s="doReport"><block var="results"/></block></script></block-
definition><block-definition s="$robot play concurrently moves
'inputs'" type="reporter" category="control"><comment
x="0" y="0" w="260" collapsed="false">Play previous recorded move
concurrently. Inputs can be : &#xD;* move name (string)&#xD;* many
moves name separated by whitespace&#xD;* any reporter block, like
sequential or play sequentially</comment><header></header><code></
code><translations></translations><inputs><input type="%mult%s"></
input></inputs><script><block
s="doDeclareVariables"><list><l>move_names</l><l>reporters</
l><l>tmp_string</l><l>tmp_reporter</l></list></block><block
s="doSetVar"><l>move_names</l><block s="reportNewList"><list></
list></block></block><block s="doSetVar"><l>tmp_string</l><block
s="reportNewList"><list></list></block></block><block
s="doSetVar"><l>reporters</l><block s="reportNewList"><list></
list></block></block><custom-block s="for each %upvar of %l
%cs"><l>item</l><block var="inputs"/><script><block
s="doIfElse"><block s="report0"><block s="reportIsA"><block
var="item"/><l><option>text</option></l></block><block
s="reportIsA"><block var="item"/><l><option>number</option></l></
block></block><script><block s="doSetVar"><l>move_names</l><custom-
block s="append %mult%l"><list><block var="move_names"/><block
s="reportTextSplit"><block var="item"/><l>;</l></block></list></
custom-block></block></script><script><block s="doIfElse"><block
s="reportIsA"><block var="item"/><l><option>list</option></l></
block><script><block s="doSetVar"><l>move_names</l><custom-block
s="append %mult%l"><list><block var="move_names"/><block var="item"/
></list></custom-block></block></script><script><block
s="doIfElse"><block s="reportIsA"><block var="item"/
><l><option>reporter</option></l></block><script><block
s="doAddToList"><block var="item"/><block var="reporters"/></
block></script><script><custom-block s="$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></
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="$robot play move %txt | speed x %n"><l></l><l>1</l></custom-
block></autolambda><list></list></block><list><block var="item"/></
list></block><block var="tmp_string"/></block></script><list></
list></block><list></list></block><custom-block s="yield"></custom-
block></script></custom-block><block s="doSetVar"><l>tmp_reporter</
l><custom-block s="$robot concurrent %mult%repRing"><list><block
s="reifyReporter"><script></script><list></list></block></list></
custom-block></block><block s="doWaitUntil"><block
s="reportEquals"><block s="reportListLength"><block
var="tmp_string"/></block><block s="reportListLength"><block

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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></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="$robot
play sequentially moves %&apos;inputs&apos;" type="reporter"
category="control"><comment x="0" y="0" w="267"
collapsed="false">Play previous recorded moves sequentially. Inputs
can be : &#xD;* move name (string)&#xD;* many moves name separated
by whitespace&#xD;* any reporter block like concurrent or play
concurrently</comment><header></header><code></code><translations></
translations><inputs><input type="%mult%s"></input></
inputs><script><block s="doDeclareVariables"><list><l>move_names</
l><l>reporters</l><l>out</l></list></block><block
s="doSetVar"><l>move_names</l><block s="reportNewList"><list></
list></block></block><block s="doSetVar"><l>reporters</l><block
s="reportNewList"><list></list></block></block><custom-block s="for
each %upvar of %l %cs"><l>item</l><block var="inputs"/
><script><block s="doIfElse"><block s="report0r"><block
s="reportIsA"><block var="item"/><l><option>text</option></l></
block><block s="reportIsA"><block var="item"/><l><option>number</
option></l></block></block><script><block
s="doSetVar"><l>move_names</l><custom-block s="append
%mult%l"><list><block var="move_names"/><block
s="reportTextSplit"><block var="item"/><l>;</l></block></list></
custom-block></block></script><script><block s="doIfElse"><block
s="reportIsA"><block var="item"/><l><option>list</option></l></
block><script><block s="doSetVar"><l>move_names</l><custom-block
s="append %mult%l"><list><block var="move_names"/><block var="item"/
></list></custom-block></block></script><script><block
s="doIfElse"><block s="reportIsA"><block var="item"/
><l><option>reporter</option></l></block><script><block
s="doAddToList"><block var="item"/><block var="reporters"/></
block></script><script><custom-block s="$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></
custom-block><block s="doReport"><custom-block s="join words
%mult%txt"><list><custom-block s="combine with %repRing items of
%l"><block s="reifyReporter"><autolambda><custom-block s="join words
%mult%txt"><list><l></l><l></l></list></custom-block></
autolambda><list></list></block><custom-block s="map %repRing over
%mult%l"><block s="reifyReporter"><autolambda><custom-block
s="$robot play move %txt | speed x %n"><l></l><l>1</l></custom-
block></autolambda><list></list></block><list><block
var="move_names"/></list></custom-block></custom-block><custom-block
s="$robot sequence %mult%repRing"><list><block
s="reifyReporter"><script></script><list></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.&#xD;Alias is a
keyword for representing many motors at once. </comment><header></

```

```

header><code></code><translations></translations><inputs></
inputs><script><block s="doReport"><block s="reportTextSplit"><block
s="reportURL"><block s="reportJoinWords"><list><custom-block
s="$robot robot URL"></custom-block><l>/motors/</l><l>alias</l></
list></block></block><l></l></block></block></script></block-
definition><block-definition s="items %&apos;i&apos; to
%&apos;j&apos; of %&apos;list&apos;" type="reporter"
category="lists"><comment x="0" y="0" w="146"
collapsed="false">Return a sublist which contains items in the
interval of 2 input numbers.&#xD;&#xD;Original list is not modified.</
comment><header></header><code></code><translations></
translations><inputs><input type="%n"></input><input type="%n"></
input><input type="%l"></input></inputs><script><block
s="doDeclareVariables"><list><l>result</l></list></block><block
s="doSetVar"><l>result</l><block s="reportNewList"><list></list></
block></block><block s="doIf"><block s="reportLessThan"><block
var="i"/><l>0</l></block><script><block s="doSetVar"><l>i</l><block
s="reportSum"><block s="reportListLength"><block var="list"/></
block><block var="i"/></block></block></script></block><block
s="doIf"><block s="reportLessThan"><block var="j"/><l>0</l></
block><script><block s="doSetVar"><l>j</l><block
s="reportSum"><block s="reportListLength"><block var="list"/></
block><block var="j"/></block></block></script></block><custom-block
s="for %upvar = %n to %n %cs"><l>elem</l><custom-block s="if %b then
%anyUE else %anyUE"><block var="i"/><block var="i"/><l>1</l></
custom-block><custom-block s="if %b then %anyUE else %anyUE"><block
var="j"/><block var="j"/><block s="reportListLength"><block
var="list"/></block></custom-block><script><block
s="doAddToList"><block s="reportListItem"><block var="elem"/><block
var="list"/></block><block var="result"/></block></script></custom-
block><block s="doReport"><block var="result"/></block></script></
block-definition><block-definition s="$robot play move
%&apos;record_name&apos; in reverse | speed x %&apos;speed&apos;"
type="reporter" category="control"><comment x="0" y="0"
w="230.00000099999999" collapsed="false">Play in reverse the movement
of a previous recorded move. &#xD;&#xD;The &lt;record_name&gt; input
is the name of a .record filename which should be in the same
directory where you started the web server (with the command &quot;
$robot-snap $robot-ergo&quot; for example).&#xD;&#xD;You can change
the play speed with the &lt;speed&gt; input.</comment><header></
header><code></code><translations></translations><inputs><input
type="%s">move_name</input><input type="%n">1</input></
inputs><script><block s="doDeclareVariables"><list><l>time</l></
list></block><block s="doDeclareVariables"><list><l>wait</l></
list></block><block s="doSetVar"><l>wait</l><block
s="reportBoolean"><l><bool>>true</bool></l></block></block><block
s="doIfElse"><block s="reportListContainsItem"><custom-block
s="$robot all recorded moves"></custom-block><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"></custom-block><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.&#xD;TODO : change with a looking at running primitive</
comment></block></script><script><custom-block s="$robot popup
%txt"><block s="reportJoinWords"><list><l>Error : &lt;/l><block
var="record_name"/><l>&gt; 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"></custom-block></list></block></
custom-block></script></block><block s="doReport"><block
var="record_name"/></block></script></block-definition><block-
definition s="$robot test connection" type="reporter"
category="sensing"><header></header><code></code><translations></
translations><inputs></inputs><script><block s="doIfElse"><custom-
block s="ping http:// %s"><custom-block s="$robot robot URL"></
custom-block></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 %&apos;var&apos; in
%&apos;list&apos;" type="reporter" category="lists"><comment x="0"
y="0" w="194" collapsed="false">Return the index of a item in a
list</comment><header></header><code></code><translations></
translations><inputs><input type="%s"></input><input type="%l"></
input></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="$robot http:// %&apos;input&apos;"
type="reporter" category="other"><header></header><code></
code><translations></translations><inputs><input type="%s"></
input></inputs><script><block
s="doDeclareVariables"><list><l>output</l><l>timer_init</l></list></
block><block s="doSetVar"><l>timer_init</l><block s="getTimer"></
block></block><block s="doSetVar"><l>output</l><block
s="reportNewList"><list></list></block></block><block
s="fork"><block s="reifyScript"><script><block
s="doAddToList"><block s="reportURL"><block var="input"/></
block><block var="output"/></block></script><list></list></
block><list></list></block><block s="doWaitUntil"><block
s="report0r"><block s="reportGreaterThan"><block
s="reportDifference"><block s="getTimer"></block><block
var="timer_init"/></block><l>3.5</l></block><block
s="reportGreaterThan"><block s="reportListLength"><block
var="output"/></block><l>0</l></block></block></block><block
s="doIf"><block s="reportGreaterThan"><block
s="reportDifference"><block s="getTimer"></block><block
var="timer_init"/></block><l>3</l></block><script><custom-block
s="$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="$robot
all motors"></custom-block></script><script x="539.8916025624999"
y="95.00000100000014"><block s="reportURL"><block var="input"/></
block></script><script x="397.22656450000005"
y="240.00000399999993"><block s="doSetVar"><l>output</l><l>0</l></
block></script><script x="433.00000000000006" y="179.2"><block
s="reportListLength"><l/></block></script><script
x="701.5517588124999" y="139.00000500000004"><block
s="reportStringSize"><l>world</l></block></script></scripts></block-
definition><block-definition s="$robot '&#x27;action&#x27;
behaviours '&#x27;primitive&#x27;"; type="command"
category="control"><header></header><code></code><translations></
translations><inputs><input type="%txt"
readonly="true">start<options>start
stop
pause
resume</options></input><input type="%txt"></input></
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 &#x26;#x27; </l><block
var="primitive"/><l> &#x26;#x27; 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><l></l></list></custom-block></
autolambda><list></list></block><block var="all primitives"/></
custom-block></list></block></custom-block><block s="doReport"><l></
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="$robot popup %txt"><block s="reportJoinWords"><list><l>Action
&#x26;#x27; </l><block var="action"/><l> &#x26;#x27; is not valid : </l><custom-
block s="combine with %repRing items of %l"><block
s="reifyReporter"><autolambda><custom-block s="join words
%mult%txt"><list><l></l><l></l></list></custom-block></
autolambda><list></list></block><block var="keyword list"/></custom-
block></list></block></custom-block><block s="doReport"><l></l></
block></script><script><block s="doReport"><block
s="reportURL"><block s="reportJoinWords"><list><custom-block
s="$robot robot URL"></custom-block><l>/primitive/</l><block
var="primitive"/><l>/</l><block var="action"/></list></block></
block></block></script></block></script></block></script></block-
definition><block-definition s="$robot get '&#x27;input&#x27; of
behaviour '&#x27;primitive&#x27;"; type="reporter"
category="sensing"><header></header><code></code><translations></
translations><inputs><input type="%s"
```



```

readonly="true">methodes<options>methodes
properties</options></input><input type="%txt"></input></
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><l></l></list></custom-block></
autolambda><list></list></block><block var="all primitives"/></
custom-block></list></block></custom-block><block s="doReport"><l></
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="$robot popup %txt"><block s="reportJoinWords"><list><l>Input </
l><block var="input"/><l> is not valid : </l><custom-block
s="combine with %repRing items of %l"><block
s="reifyReporter"><autolambda><custom-block s="join words
%mult%txt"><list><l></l><l></l></list></custom-block></
autolambda><list></list></block><block var="keyword list"/></custom-
block></list></block></custom-block><block s="doReport"><l></l></
block></script><script><block s="doReport"><block
s="reportTextSplit"><block s="reportURL"><block
s="reportJoinWords"><list><custom-block s="$robot robot URL"></
custom-block><l>/primitive/</l><block var="primitive"/><l>/</
l><block var="input"/></list></block></block><l>/</l></block></
block></script></block></script></block></script></block-
definition><block-definition s="set $robot host to
%&apos;hostname&apos;" type="command"
category="variables"><header></header><code></code><translations></
translations><inputs><input type="%s"></input></
inputs><script><block s="doSetVar"><l>host</l><block var="hostname"/
></block><block s="doDeclareVariables"><list><l>tmp_hostname</l></
list></block><block s="doResetTimer"></block><block
s="doUntil"><block s="reportGreaterThan"><block s="getTimer"></
block><l>10</l></block><script><block s="doSetVar"><l>tmp_hostname</
l><block s="reportURL"><block s="reportJoinWords"><list><custom-
block s="$robot robot URL"></custom-block><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="$robot test connection"></custom-
block></block><block s="doReport"><l></l></block></script></
block><block s="doWait"><l>0.1</l></block></script></block><custom-
block s="$robot popup %txt"><l>Your robot host is unreacheble</l></
custom-block></script></block-definition><block-definition s="ping

```

```

http:// %&apos;url&apos;" type="predicate"
category="operators"><header></header><code></code><translations></
translations><inputs><input type="%s"></input></
inputs><script><block s="doResetTimer"></block><block
s="doWaitUntil"><block s="report0r"><block
s="reportGreaterThan"><block s="getTimer"></block><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"></
block><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></
script></block></script></block-definition><block-definition s="play
move %&apos;record_name&apos; | speed x %&apos;speed&apos;"
type="command" category="control"><comment x="0" y="0"
w="230.00000099999999" collapsed="false">Play the movement of a
previous recorded move. &#xD;&#xD;The &lt;record_name&gt; input is
the name of a .record filename which should be in the same directory
where you started the web server (with the command &quot;$robot-snap
$robot-ergo&quot; for example).&#xD;&#xD;You can change the play
speed with the &lt;speed&gt; input.</comment><header></
header><code></code><translations></translations><inputs><input
type="%txt">move_name</input><input type="%n">1</input></
inputs><script><block s="doDeclareVariables"><list><l>time</l></
list></block><block s="doDeclareVariables"><list><l>wait</l></
list></block><block s="doSetVar"><l>wait</l><block
s="reportBoolean"><l><bool>true</bool></l></block></block><block
s="doIfElse"><block s="reportListContainsItem"><custom-block
s="$robot all recorded moves"></custom-block><block
var="record_name"/></block><script><block s="doSetVar"><l>time</
l><block s="reportURL"><block s="reportJoinWords"><list><custom-
block s="$robot robot URL"></custom-block><l>/primitive/MovePlayer/
</l><block var="record_name"/><l>/start/</l><block var="speed"/></
list></block></block></block><block s="doIf"><block var="wait"/
><script><block s="doWait"><block var="time"/></block></
script><comment w="90" collapsed="false">ugly wait to stop
feature.&#xD;TODO : change with a looking at running primitive</
comment></block></script><script><custom-block s="$robot popup
%txt"><block s="reportJoinWords"><list><l>Error : &lt;/l><block
var="record_name"/><l>&gt; is not is the available records (look at
the block $robot all records to see all recorded moves) </l><custom-
block s="$robot all recorded moves"></custom-block></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)
%&apos;motor_name&apos; in %&apos;color&apos;" type="command"
category="control"><header></header><code></code><translations></
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 %&apos;card&apos; is detected ?"
type="predicate" category="sensing"><header></header><code></
code><translations></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"></
custom-block><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="label %&apos;text&apos; of size %&apos;size&apos;" type="command"
category="pen"><comment x="0" y="0" w="90" collapsed="false">LABEL
will stamp text on the stage at the given font size. The direction
of the text is the direction the sprite is facing, and color will
match the pen color.</comment><header></header><code></
code><translations></translations><inputs><input type="%txt">Hello!
</input><input type="%n">12</input></inputs><script><block
s="doRun"><block s="reportJSFunction"><list><l>text</l><l>size</l></
list><l>var stage = this.parentThatIsA(StageMorph),&#xD; context
= stage.penTrails().getContext(&apos;2d&apos;),&#xD; rotation =
radians(this.direction() - 90),&#xD; trans = new Point(&#xD;
this.center().x - stage.left(),&#xD; this.center().y -
stage.top(),&#xD; ),&#xD; isWarped = this.Warped,&#xD;
len,&#xD; pos;&#xD;&#xD;if (isWarped) {endWarp(); }
&#xD;context.save();&#xD;context.font = size + &apos;px
monospace&apos;;&#xD;context.textAlign =
&apos;left&apos;;&#xD;context.textBaseline =
&apos;alphabetic&apos;;&#xD;context.fillStyle =
this.color.toString();&#xD;len =
context.measureText(text).width;&#xD;trans = trans.multiplyBy(1 /
stage.scale);&#xD;context.translate(trans.x,
trans.y);&#xD;context.rotate(rotation);&#xD;context.fillText(text,
0, 0);&#xD;context.translate(-trans.x, -
trans.y);&#xD;context.restore();&#xD;pos = new Point(&#xD; len *
Math.sin(radians(this.direction())),&#xD; len *
Math.cos(radians(this.direction())));&#xD;pos = pos.add(new
Point(this.xPosition(), this.yPosition()));&#xD;this.gotoXY(pos.x,
pos.y, false);&#xD;this.changed();&#xD;if (isWarped)
{this.startWarp(); }&#xD;stage.changed();</l></block><list><block
var="text"/><block var="size"/></list></block></script></block-
definition><block-definition s="map %&apos;function&apos; over
%&apos;lists&apos;" type="reporter" category="lists"><header></

```

```
header><code></code><translations></translations><inputs><input
type="%repRing"></input><input type="%mult%l"></input></
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></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></
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></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></></block></autolambda><list></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"></></block></
autolambda><list></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? %&apos;data&apos;"
type="predicate" category="lists"><header></header><code></
code><translations></translations><inputs><input type="%l"></
input></inputs><script><block s="doReport"><block
s="reportEquals"><block var="data"/><block
s="reportNewList"><list></list></block></block></block></script></
block-definition><block-definition s="keep items such that
%&apos;pred&apos; from %&apos;data&apos;" type="reporter"
category="lists"><header></header><code></code><translations></
translations><inputs><input type="%predRing"></input><input
type="%l"></input></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></
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 %&apos;function&apos;; items of
%&apos;data&apos;," type="reporter" category="lists"><header></
header><code></code><translations></translations><inputs><input
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block></block></script><script><block s="doReport"><block
s="evaluate"><block var="false"/><list></list></block></block></
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%&apos;i&apos;; = %&apos;start&apos;; to %&apos;end&apos;;
%&apos;action&apos;," type="command" category="control"><header></
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wait ? %boolUE"><l>-60</l><l>m2</l><l>0.5</l><l></l></custom-
block><custom-block s="$robot set position(s) %n of motor(s) %s in
%n seconds | wait ? %boolUE"><l>90</l><l>m4</l><l>0.5</l><l></l></pre>
```



```
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%s in %n seconds | wait ? %boolUE"><l>-43</l><l>m5</l><l>0.5</l><l/
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motor(s) %s in %n seconds | wait ? %boolUE"><l>-71</l><l>m6</
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%n of motor(s) %s in %n seconds | wait ? %boolUE"><l>-150</l><l>m2</
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s="$robot all motors"></custom-block><l>compliant</l></custom-
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motors"></custom-block><l>stiff</l></custom-block><custom-block
s="$robot set position(s) %n of motor(s) %s in %n seconds | wait ?
%boolUE"><l>150</l><l>m4</l><l>0.5</l><l/></custom-block><custom-
block s="$robot set position(s) %n of motor(s) %s in %n seconds |
wait ? %boolUE"><l>-90</l><l>m5</l><l>0.5</l><l/></custom-
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%n seconds | wait ? %boolUE"><l>-90</l><l>m2</l><l>0.5</l><l/></
custom-block><custom-block s="$robot set position(s) %n of motor(s)
%s in %n seconds | wait ? %boolUE"><l>0</l><block
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%s in %txt"><custom-block s="$robot all motors"></custom-
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motors"></custom-block><l>blue</l></custom-block><custom-block
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%txt"><custom-block s="$robot all motors"></custom-
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s="$robot set position(s) %n of motor(s) %s in %n seconds | wait ?
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wait ? %boolUE"><l>0</l><l>m1</l><l>2</l><l></l></custom-block><block
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l><l>2</l><l></l></custom-block><custom-block s="$robot set position(s)
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