1 ISL Specification

ISL code is a set of *moves* over a canvas.

We start with a description of ISL grammar.

1.1 ISL Grammar

```
<move> | <move> <newline> <program>
cprogram>
               ::=
                       <pcut-move> | <lcut-move> | <color-move> |
<move>
               ::=
<swap-move> | <join-move>
                       "cut" <block> <position>
<pcut-move>
               ::=
<ld><lcut-move>
                       "cut" <block> <orientation> <line>
               ::=
                       "color" <block> <color>
<color-move>
               ::=
                      "swap" <block> <block>
<swap-move>
               ::=
                       "join" <block> <block>
<join-move>
               ::=
                       "x" | "y"
<orientation>
               ::=
                       "[" <block-id> "]"
<blook>
               ::=
                       "[" <x> "," <y> "]"
<position>
               ::=
                       "[" <r> "," <g> "," <b> "]"
<color>
               ::=
                       <id> | <id> "." <block-id>
<blook-id>
               ::=
                       "0", "1", "2"...
<x> | <y>
               ::=
                       "0", "1", "2"...
<id> |  ::=
                       "0", "1", "2"..."255"
<r> | <g> | <b> ::=
                       "\n"
<newline>
               ::=
```