

Rule Syntax

Jason Fletcher
Maxine Major

April 8, 2013

1 Format

1.1 Starting Piece

Possible starting piece(s) (that is, pieces that can be placed in empty space) must be declared at the beginning of the rules file. This will be treated as special rule.

1.2 Rules

Each rule thereafter will be of the form:

<name> <piece1> <piece2> <locations>

Where

name => unique identifying name

piece1 => piece to be placed

piece2 => piece to be placed on

locations => locations to allow placement on. Current, the valid locations are "top", "side", and "corner".

"top" refers to a location where all of the sockets of the piece being placed are filled;

"side" refers to a location where at least two sockets, but not all, are filled;

"corner" refers to a location where only one socket is filled.

2 Example Rules File

2x4 2x2

stacking_rule 2x2 2x2 top

general_rule 2x2 2x4 top side corner

3 Formal Grammar Syntax

S: start rules | λ
start: piece | piece piece
rules: rule rules | rule
rule: name rule1
rule1: piece rule2
rule2: piece rule3
rule3: loc rule3 | loc
name: IDENT
piece: 2x2 | 2x4
loc: TOP | SIDE | CORNER