# **Other systems**



### Fancade: a 3D data-flow game building language

**Data-flow computation** 

Typed links (Number, Boolean, Position, Rotation, Object, ...)

NO text!

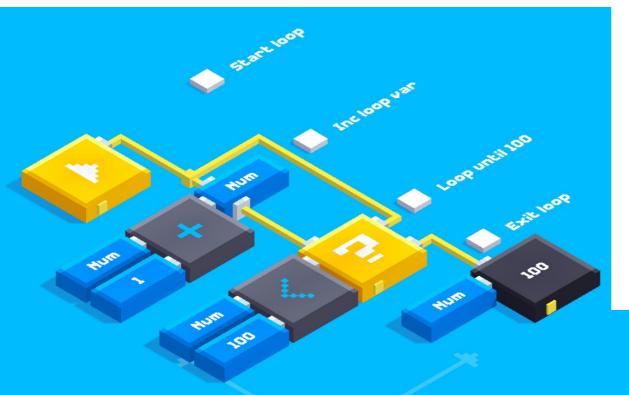
Executed 60 times for second (implicit forever loop)

**Execution order: left-right and top-down** 

Explicit Variables (used also to reduce wires and increase fan-out)

Code can read/write blocks properties

# **Explicit Control = before/after links**



Loops

do:
Num += 1
while num<100

If-then-else

if 5%2==0:

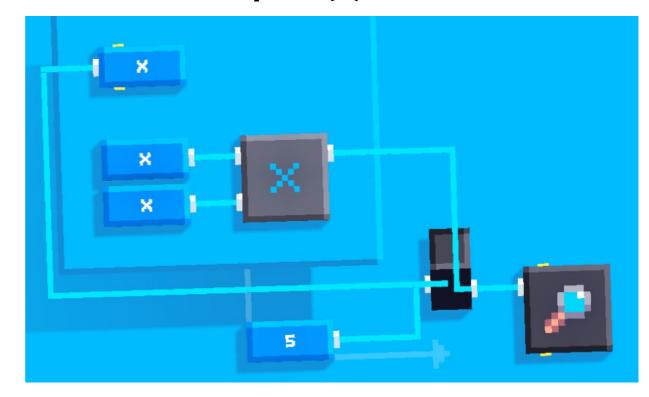
then: win else: lose

#### **Functions: custom blocks**

**Functions? YES** 

Just put "code" inside a block, with external connectors

def square(x): return x\*x



#### **Modularization:**

- custom blocks can be placed inside other blocks
- BUT: NO recursion is allowed (direct or indirect)

#### **DEMO**

# PlayOsmo: tangible interaction for kids

Your <u>iPad scan the table</u> (with an attached mirror)

You play with tiles (instructions or tangram pieces or letters or draw)

It recognizes your "code" or words in the game





# Loops and simple repetitions

Blocks represent action and direction

- modifier: number of repetitions

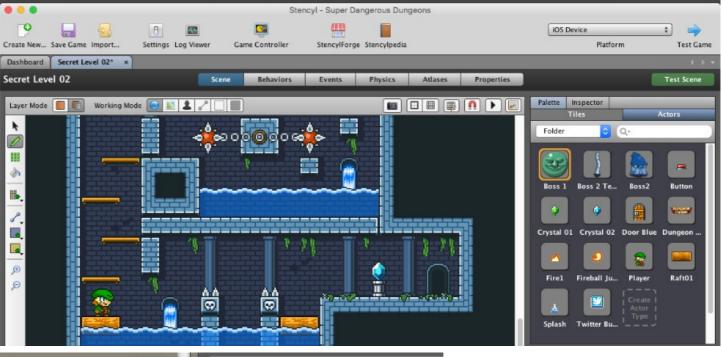
Loops

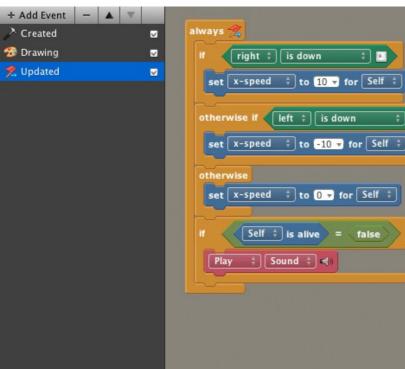
The instructions' meaning depends on the game

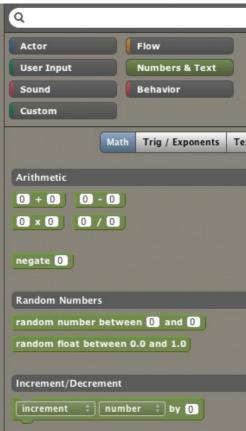
- Music playing game
- Monster in a labyrinth game



### **Stencyl**







AA 19-20 Others

### Alice 3





### Ren'Py

Dialogue-based adventures (Visual Novels)

Python-inspired simplified syntax (with indentation)

**Runs in Python** 



### **Others**

**Kodu:** Design 3D games on Xbox (and PC)

**Kodular**: game editor

**Construct:** HTML5 game editor

**Swift Playground:** by Apple

<u>MakeBlock</u>: robots/microcontrollers + Scratch

**Tynker: Scratch-inspired** 

... and many other game-editors