

Active Sketches: Interaction vs Animation

In *interaction*, the changes over time are driven by user actions.

mouse or keyboard actions

CPSC 120: Principles of Computer Science • Fall 2024

In *animation*, the changes over time are driven (only) by the passage of time.

A sketch can include both interaction and animation at the same time.













(Non-System) Variables	type name; // description
Four steps –	variable stores – int – whole numbers – float – numbers with decimal points
 declare – "hey computer, this name is going to mean something!" variable must be declared before initialization initialize – give it a starting 	 boolean - true or false name should be brief but descriptive convention is to start with lowercase letter and separate words with capital or case-sensitive description provides info not
 value variable must be initialized before use or undate 	name = value;
 use – to draw (or whatever) update – change its value 	 value can be a literal or an expression as an expression, it can reference the variable name the value of value is computed and they discriminate the value of value is computed and they discriminate the value of value is computed and they discriminate the value of value is computed and they discriminate the value of value is computed and they discriminate the value of value is computed and they discriminate the value of value is computed and they discriminate the value of value is computed and they discriminate the value of value is computed and they discriminate the value of value is computed and they discriminate the value of value is computed and they discriminate the value of value is computed and they discriminate the value of value is computed and they discriminate the value of value is computed and they discriminate the value of value is computed and they discriminate the value of value is computed and they discriminate the value of value is computed and they discriminate the value of value is computed and they discriminate the value of value is computed and they discriminate the value of value is computed and they discriminate the value of value is computed and they discriminate the value of value is computed and they discriminate the value of value is computed and they discriminate the value of value is computed and they discriminate the value of value is computed and they discriminate the value of value is computed and they discriminate the value of value is computed and they discriminate the value of value is computed and they discriminate the value of value is computed and they discriminate the value of value is computed and they discriminate the value of value is computed and they discriminate the value of value is computed and they discriminate the value of value is computed and they discriminate the value of value is computed and they discriminate the value of value is computed and they discriminate they discriminate they discriminate
CPSC 120: Principles of Computer Science • Fall 2024	value already there

Structural Pattern – Animation

Where does stuff go?

Animation variables are usually -

- declared at the very beginning of the sketch, before setup() and draw()
- initialized in setup()

CPSC 120: Principles of Computer Science • Fall 2024

used and updated in draw()



