JAVASCRIPT CHEAT SHEET

using codeheart.js (http://codeheartjs.com)

Creating State (Nouns)

Examples

- Constant ("box that never changes") var HEIGHT = 50;
- Variable ("box") var score;

Values

- 3 Number
- Boolean true
- "Hello" Text Color makeColor(0.5, 0.0, 0.5, 1.0)
- loadSound("bounce.wav") Sound
- loadImage("face.png") Image
- Object (group of named boxes) new Object()
- Array (group of numbered boxes) [3, 6, 5, "Hello"]

Rules for Details (Verbs)

- Change the value in a variable
- Change a value in an array

- score = score + 1;
- name[2] = "Fred";

- Conditional rule
- Either-or conditional
- Repeated rule
- Use functions in equations

- if (______) { ______} if (______) { ______} else { _______ while (______) { _______}}
- cos(x)

Rules for Events

•	The game starts	function onSetup() {}
•	Every few milliseconds	function onTick() {}}

•	The mouse/screen is clicked	function onClick(x, y, button) {}
•	The mouse button is first pushed	function onTouchStart (x, y, id) {}
•	The mouse is dragged	function onTouchMove (x, y, id) {}
•	The mouse button is released	function onTouchEnd (x, y, id) {}
•	The mouse moves	function onMouseMove(x, y) {}}

•	A key is first pushed down	function onKeyStart (key) {}
•	A letter is typed	function onKeyPress(key) {}
•	A key is released	function onKeyEnd (key) {}

Funny Spellings for Logic

anny spennigs for Logic				
Are both A and B true?	A && B			
Is either A or B true?	A B			
Is A equal to B?	A == B			
 Is A not equal to B 	A != B			
 Is A greater than or equal to B? 	A >= B			
Is B is between A and C?	$(A \le B) \&\& (B \le C)$			

The Built-In Functions

Core: defineGame, console.log, alert, length, toUpperCase, toLowerCase, substring, indexOf, ...

Math: sqrt, sin, cos, tan, pow, min, max, floor, ceil, round, abs, log, log2, atan2, atan, exp, randomReal,

randomInteger

Drawing: fillCircle, strokeCircle, fillRectangle, strokeRectangle, drawImage, fillText,

strokeText, clearScreen, loadImage, makeColor, strokeLine

Sound: loadSound, playSound