

+ Color

A data type that represents an RGB color color oliveGreen = color(85, 107, 47);

Functions that return a color component

red() color c = color(20, 20, 140);

green()

float r = red(c);

float g = green(c);

float b = blue(c);

fill(r, g, b);

fill(color(r, g, b));

fill(c);

http://cs.brynmawr.edu/csl10dc/colors.html

+ Example: BallDrop Array

Functions Informally (reminder)

- A function A function is like a subprogram, a small program inside of a program.
- ■The basic idea we write a sequence of statements and then give that sequence a name. We can then execute this sequence at any time by referring to the name.
- Function definition: this is where you create a function and define exactly what it does
- ■Function call: when a function is used in a program, we say the function is *called*.
- A function can only be defined once, but can be called many times.

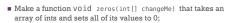
Variable Scope

The part of the program from which a variable can be accessed.

Rules*

- 1. Variables declared in a block are only accessible within the block.
- 2. Variables declared in an outer block are accessible from an inner block.
- Variables declared outside of any function are considered global (available to all functions).
- 4. Arrays and classes are passed by reference instead of copied

+ array functions



■ Make a function float[] zeros(int size) that creates a float array of length Size, sets all of the values to 0.0, and returns the array.

^TPlots

- Bar graphsPie Charts
- Line Charts





