Technologies

Ruby – handles logic and allows you to hand off tasks to the computer; is a generic programming language; very human; makes it cheaper to hire Ruby programmers

-built from hardware, machine language (010101—binary), assembly language, high-level language, FORTRAN, C, and Pascal

8 binary digits makes a byte; each digit is a bit

High level language

Ruby is a language written in C (also Lisp, Python, Java, Objective-C)

Rails (a framework) is written in Ruby; and is specific to websites

Git and Github (Github is a repository you can push to; will save your code in the Cloud); Git will track the versions of your code as you move along; it’s a software and a social media place; takes snapshots of your code as you progress

HTML handles web content

CSS is website formatting (how you see your HTML)

Twitter Bootstrap is a CSS framework, mostly used for prototyping

Schema design is how you structure a database

SQL (sequel) is the language in which you write a database (language of relational databases)

JavaScript – logic for your browser

AngularJS is a JavaScript framework (we’re using Angular 1 for this class)

Frameworks lend speed and power to coding

-Open Source

-Agile (allows you to produce quickly)

-Test-driven development

-APIs (application development interface)

Coding in the real world

-Pragmatism

-Getting things done

-Making tradeoffs

-Working with other peoples’ code

-Working with non-technical people

Legacy code—a.k.a trash bin

Traits and skills for this class (GWYPI = get what you put in)

-Taking initiative (play around with code outside class)

-Tinkering

-Always be learning

Commitment and respect

-Collarboration

-Professionalism

-Keep up with class (lessons are recorded, and will be uploaded to Slack about a day after class)

-Attendance (you get 3 absences total during the program; the 4th gets you kicked out)

\*\*\*Github info:

-user emilyjf

-pass usual + 1

-Videos will be posted under Resources on Slack

Terminal shortcuts

Command K clears terminal history

ls –l shows list

ls –a

ls –al (or ls –la)

ls will list things on desktop (or whatever drive you log into)

cd .. takes you one folder up

pwd shows you the path

only need to type cd then the first few letters of your folder, plus tab (to get the folder name without typing)

cd ../.. takes you two levels

cd ~ takes you to the home folder

cd / takes you to the root folder

How to make a file from the terminal: touch [name of file].txt

echo = terminal talk for “print”

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Local variables are all underscores and lowercase (aka snakecase)

-Control b will build out the code in the terminal and show you the code right there

-Interpolation is another way of concatenating (only works with double quotes); Ruby developers prefer interpolation

-Comment out copy by highlighting it and doing command /

-Without highlighting, command C, command V will copy

-Command D will highlight all instances of a word, hitting command D again will highlight the second, third instance of it, creating multiple instances of it and multiple cursors, allowing you to change it in one fell swoop; esc will get rid of multiple cursors

-Classes can have behavior along with objects (what an object does (methods) in addition to what an object is)

-Class instances have to be upper camel case (each word starts with a capital)

-Instance variables in a class are where you store attributes

-Last line that runs in Ruby is the implicit return

-A method will only return one value

-There are reader and writer methods for classes

-An argument is something you pass into a parameter

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-command-shift-V will copy and paste code and keep the indentation

-dry coding (don’t repeat yourself)

-wet coding (write everything twice)

-class names always have to be singular (since the class creates multiple instances of a class)

-two things that make up a class: attributes and behavior

-command-control-up/down arrows will move text around

-can run a method on an instance made from a class

-@@ starts a class variable

-use self. with a class method

-modules is a concept that other things can use