

GETTING STARTED

JAVASCRIPT DEVELOPMENT

GORDON KRISTAN

- ▶ Studied CS and math at UIUC
- ▶ Currently a software engineer at Sprout Social
- ▶ Working with Javascript for about 3.5 years
- ▶ Teaching this class to learn more about Javascript
- ▶ Programming is my favorite hobby
- ▶ Also enjoy snowboarding, watching the Cubs and Hawks, going to concerts, craft beer

CLASS INTRODUCTIONS

- ▶ Your name (obviously)
- ▶ What career or profession did you come from?
- ▶ Why did you decide to learn about Javascript and web development?
- ▶ What do you do in your free time (besides school)?

GETTING STARTED

ABOUT THIS COURSE

**THE GOAL OF THIS COURSE IS TO
GIVE YOU THE TOOLS TO WORK WITH
JAVASCRIPT IN THE REAL WORLD**

Gordo

COURSE MATERIAL

- ▶ Lessons 0 - 4: The basics of Javascript
- ▶ Project 1: Slackbot
- ▶ Lessons 5 - 11: More basics of Javascript, the DOM, AJAX, and APIs
- ▶ Project 2: A personalized newsfeed reader
- ▶ Lessons 12 - 18: The final bits of Javascript and the basics of building web applications
- ▶ Project 3: A single-page web application

TODAY'S OBJECTIVES

- ▶ Understand the course structure and goals
- ▶ Install and set up Slack, our main communication tool
- ▶ Install all of the the necessary development tools
- ▶ Pseudocode exercise (time permitting)
- ▶ Exit tickets

BEFORE WE GET STARTED...

- ▶ Is everybody connected to the WiFi?
- ▶ Is anybody using a Windows or Linux laptop?
- ▶ Are you using a recent version of your operating system?
- ▶ Is everybody familiar with HTML and CSS?
- ▶ Does everybody know what the command line is?

GETTING STARTED

SLACK

Featured


Top Charts

Categories

Purchased

Updates

Q slack



Slack

4+

All your team communication in one place. A new way to get more done, spend less time in meetings, and reduce email. That's Slack.

• Real time messaging and file sharing for one-to-one and group conversations...

...More

What's New in Version 2.0.1

- Fixed: Sometimes you'd download a file and '.txt' would be added to the end of the file name for no apparent reason. This was a case of the OS trying to be helpful. It was not help of the kind we, or...

...More

Install

All your team's messages, files and services in one place.

Acme Sites

Matthew Kump

STARRED

#api

#bugs

#cats

#features

#general

#marketing

#mobile

#ui

CHANNELS

#billing

#engineering

#ops

#sales

#support

#web

Create a channel...

DIRECT MESSAGES

slackbot

Carl Bentley

JR Rodriguez

Suzie McGeuze

+12 More...

PRIVATE GROUPS

#general

18

Search

Suzie McGeuze 2:50 PM

hey everyone, our all-hands will be starting in 10 minutes. If you have any questions in advance, please let me know!

github BOT 2:50 PM

[AcmeStandard:master] 1 new commit by Bort Calort

3gh1d7c: don't apply function lints to /acme_support.php

Amy Grunt 3:15 PM

If anyone has any questions about the new additions, give me a shout!


Carl Bentley 3:23 PM

Question 1: Can they juggle work? I mean literally. Like paper and staplers.

Lauren Ortiz 4:10 PM

https://static-s3.businessinsider.com/image/54dc4ee369bedd4775ef2753/slack-1year-feb12-2015-dau.gif (2MB)

Daily Active User Growth



Channel Info

About This Channel

The #general channel is for team-wide communication and announcements. Your mom is in this channel.

Invite more people to this channel

Find files shared in this channel

Leave #general

2 Pinned Items

Suzie McGeuze March 2nd, 3:10 PM

thank's everyone, that was a great meeting. Here are the minutes: http://www.website.com/minutes

Some Long Named PDF Filename...

13MB PDF File

7/18 Members

Aaron Straup Cope

Information

Category: Business

Updated: Mar 24, 2016

Version: 2.0.1

Price: Free

Size: 23.6 MB

Family Sharing: Yes

Language: English

Seller: Slack Technologies, Inc.

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Rated 4+

Compatibility:

OS X 10.9 or later, 64-bit processor

GETTING STARTED

HOMEBREW

Homebrew

The missing package manager for OS X

English

Install Homebrew

```
/usr/bin/ruby -e "$(curl -fsSL https://raw.githubusercontent.com/Homebrew/install/master)
```

Paste that at a Terminal prompt.

The script explains what it will do and then pauses before it does it. There are more installation options [here](#) (needed on 10.5).

What Does Homebrew Do?

Homebrew installs **the stuff you need** that Apple didn't.

```
$ brew install wget
```

GETTING STARTED

GIT

OSX

```
brew install git
```

WINDOWS

<https://git-scm.com/download/win>

LINUX

```
sudo apt-get install build-essential git-core curl
```

```
git config --global user.name "Some Body"
```

```
git config --global user.email "email@web.com"
```

GETTING STARTED

NODE.JS

OSX

```
brew install node
```

WINDOWS

<https://nodejs.org/en>

LINUX

<https://nodejs.org/en/download/package-manager/>

npm i -g npm

GETTING STARTED

SUBLIME TEXT 3

<https://www.sublimetext.com/>

<https://packagecontrol.io/installation>



Simple

The simplest method of installation is through the Sublime Text console. The console is accessed via the `ctrl+`` shortcut or the `View > Show Console` menu. Once open, paste the appropriate Python code for your version of Sublime Text into the console.

SUBLIME TEXT 3

SUBLIME TEXT 2

```
import urllib.request,os,hashlib; h =
'2915d1851351e5ee549c20394736b442' +
'8bc59f460fa1548d1514676163dafc88'; pf =
'Package Control.sublime-package'; ipp =
sublime.installed_packages_path();
urllib.request.install_opener(
urllib.request.build_opener(
urllib.request.ProxyHandler()) ); by =
urllib.request.urlopen(
'http://packagecontrol.io/' + pf.replace(' ',
'%20')).read(); dh =
hashlib.sha256(by).hexdigest(); print('Error
validating download (got %s instead of %s),
please try manual install' % (dh, h)) if dh
!= h else open(os.path.join( ipp, pf), 'wb'
).write(by)
```

This code creates the Installed Packages folder for you (if

Manual

If for some reason the console installation instructions do not work for you (such as having a proxy on your network), perform the following steps to manually install Package Control:

1. Click the `Preferences > Browse Packages...` menu
2. Browse up a folder and then into the `Installed Packages/` folder
3. Download `Package Control.sublime-package` and copy it into the `Installed Packages/` directory
4. Restart Sublime Text

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SUPPORTED VIA 





1

```
validating download (got %s instead of %s), please try manual install' % (dh, h)) if dh != h else open(os.path.join(ipp, pf), 'wb').write(by_
```

Line 1, Column 1

0 misspelled words

Tab Size: 4

Plain Text

GETTING STARTED

PSEUDOCODE

WHAT IS PSEUDOCODE?

- ▶ A description of code in plain English
- ▶ Often structured in a similar manner to code
- ▶ Contains all of the logic contained within a particular piece of code, but none of the actual syntax
- ▶ Used to convey ideas without the distraction of actual code

PSEUDOCODE SOLUTION #1

if the button is pressed:

 if the light is on, turn it off

 if the light is off, turn it on

PSEUDOCODE EXERCISE #2

Write the pseudocode for a program for that controls a light that can change color based on user input. Imagine that we have 3 different colored buttons (red, blue and yellow) and if a user taps one of the colored buttons the light changes to the selected color. If the selected color is tapped again, the light turns off.

if the red button is pressed:

- if the light is red, turn the light off

- if the light isn't red, change the light to red and turn it on

if the yellow button is pressed:

- if the light is yellow, turn the light off

- if the light isn't yellow, change the light to yellow and turn it on

if the blue button is pressed:

- if the light is blue, turn the light off

- if the light isn't blue, change the light to blue and turn it on

QUESTIONS?

NEXT MONDAY

- ▶ Finishing up anything we didn't finish today (if applicable)
- ▶ An introduction to the internet
- ▶ An introduction to Javascript and other web technology
- ▶ Getting started with Git and GitHub
- ▶ Working with Javascript in the terminal