

# Game Time: Project Week

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The Coding Bootcamp |

# ***Project Week Overview***

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**Yay!**

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***You made it!!!***

# Project Week! (This Week)

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## Today's Class:

- Divide into groups
- Begin researching APIs
- Outline project ideas
- Submit Project Proposal for Approval
- Initial Design work

## Rest of the Week:

- Hardcore Development

# Project Week

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## Today

- Planning and API Research

## This Week

- Hardcore Development

## Next Week:

- Presentations!

# The Great Push

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- ***Be serious about project week!***
- Use this as an opportunity to push yourself and prove what you know.

# *Teams*

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# Groups

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## **Team #1**

John Liscar, Mubin Akhawala,  
Scott Hunter, Taylor Hampton

## **Team #2**

Julie Shockley, Ogheneovie  
Omene, Peter Fullen, Janessa  
Hanna

## **Team #3**

Shaheena Qureshi, Peter  
Perreiah, Andre Jarboe, Taly  
Huang

## **Team #4**

Leaveil Armstrong, Mara Greco,  
Brad Whitcomb, Dan Nop

## **Team #5**

Miki Collins, Lisa Ewart, Steven  
Sammon

## **Team #6**

Yetnayet Aberra, Austin  
Branham, Stashaun Ashmore

## **Team #7**

Keli Chau, Summiyah Siddeeq,  
Michelle Johnson, Juanita  
Pinkney-Barrier

## **Team #8**

Brian Peace, Mitch Vassar,  
Corey Sullivan, Gregory Brown



# *Task*

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# Coding Requirements

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- Must use at least two APIs
- Must use AJAX to pull data
- Must utilize at least one new library or technology that we haven't discussed
- Must have a polished frontend / UI
- Must meet good quality coding standards (indentation, scoping, naming)
- Must NOT use alerts, confirms, or prompts (look into *modals!*)
- Must have some sort of repeating element (table, columns, etc)
- Must use Bootstrap or Alternative CSS Framework
- Must be Deployed (GitHub Pages or Pages)
- Must have User Input Validation

# Coding – Nice To Haves

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- Utilize some means of Persistent Data Storage
- Mobile Responsive
- Use an alternative CSS framework like Materialize

# Presentation Requirement

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- You will also be responsible for preparing a 10 minute presentation.
- This will be a formal presentation.
- One in which you explain in detail:
  - Your overall application's concept
  - The motivation for its development
  - Your design process
  - The technologies you used (and briefly how they work)
  - A demonstration of its functionality
  - Directions for future development
- Treat the presentation seriously!
- Talking intelligently about tech > doing tech sometimes.

# Be Glam for the Camera

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- All presentations will be recorded...
- So treat it seriously!
- These can be great portfolio pieces if you invest the time.

# ***Metrics***

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# Metrics

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- **Concept**
- **Design**
- **Functionality**
- **Collaboration**
- **Presentation**

# Awards Yay!

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- **Most Awe-Inspiring**
- **Most Useful**
- **Most Creative**
- **Best Use of Tech**
- **Best UI/UX**
- **Most Hilarious**
- **Most Disruptive**
- **Most Socially Conscious**



# ***API Suggestions***

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# API Suggestions

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Stick to APIs that do all of the following:

- Allows CORS
- Simple or no authentication
- JSON response returned
- Well documented

# API Suggestions

## API List

Name	Allows CORS	Authentication Method	Authentication Required
<a href="#">Spotify Web API</a>	yes	oauth	yes/no
<a href="#">reddit API</a>	yes	auth	yes
<a href="#">Youtube API</a>	yes	API key	yes/no
<a href="#">Linkedin</a>	yes	API key	yes
<a href="#">Soundcloud</a>	yes	API key	yes
<a href="#">Wikipedia</a>	yes	n/a	n/a
<a href="#">Rotten Tomatoes</a>	yes	API key	yes
<a href="#">flickr</a>	yes	oauth	yes
<a href="#">Pinterest API</a>	yes	oauth	yes
<a href="#">Google Custom Search API</a>	yes	API key	yes
<a href="#">Tumblr API</a>	yes	outh	yes
<a href="#">Marvel API</a>	yes	API key	yes
<a href="#">GeoNames API</a>	yes	username	yes
<a href="#">OMDB</a>	yes	n/a	n/a
<a href="#">Zillow</a>	no	ID	yes

<a href="#">Open Street Maps</a>	yes	n/a	no
<a href="#">GovTrack.us</a>	yes	n/a	no
<a href="#">Sqoot</a>	yes	API key	yes
<a href="#">Google Maps</a>	yes	API key	yes
<a href="#">Giphy</a>	yes	API key	yes
<a href="#">JSFiddle</a>	yes	n/a	n/a
<a href="#">Bitcoin Charts</a>	yes	n/a	n/a
<a href="#">StackExchange API</a>	yes	oauth	yes
<a href="#">ProPublica NonProfit API</a>	Yes?	n/a	no
<a href="#">U.S. City &amp; County Web Data API</a>	Yes	n/a	no
<a href="#">UN Data API</a>	Yes	API key	yes
<a href="#">Face++ API</a>	Yes	API Key	Yes
<a href="#">MusiXMatch</a>	Yes	API Key	Yes
<a href="#">Words API</a>	Yes	Token	No

# *Tools*

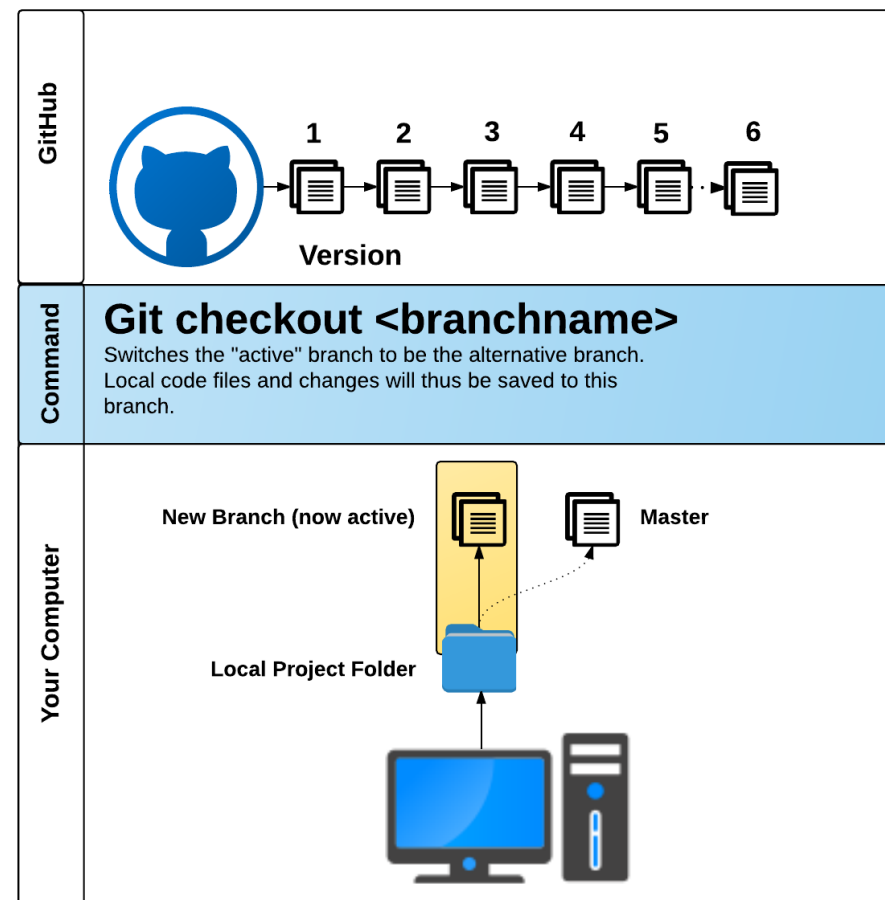
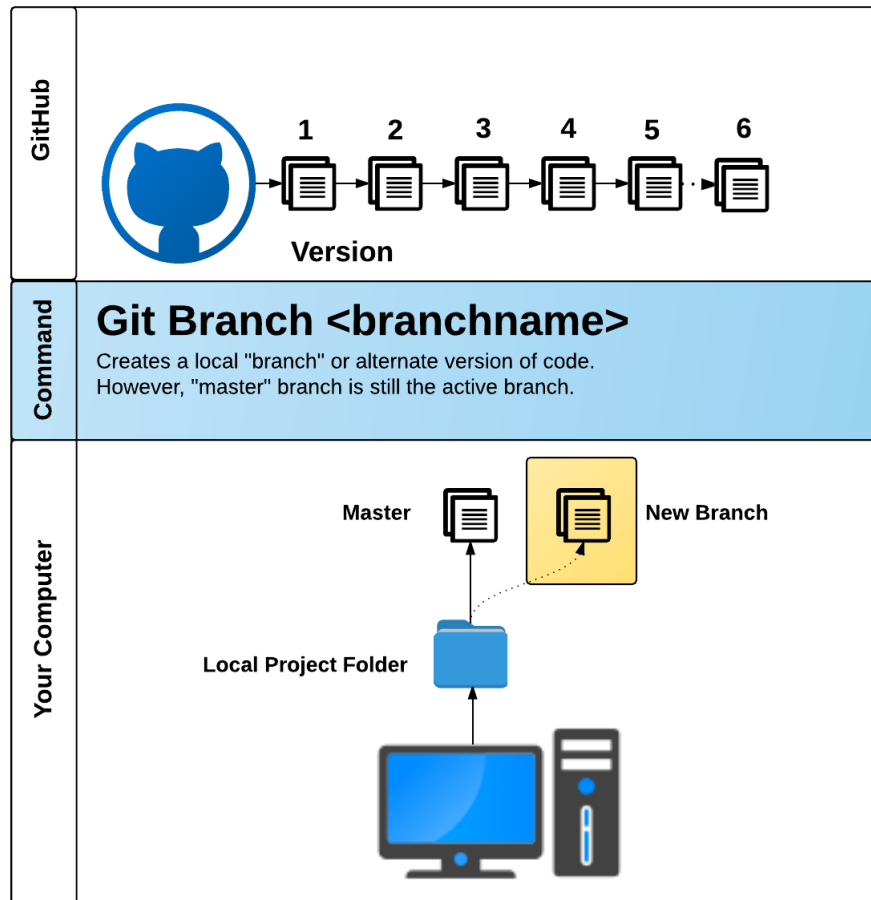
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# Collaboration is Critical!

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- Steering a project with remote developers like this one can be challenging.
- Consider using the following tools...

# GitHub Pull Requests



- GitHub Pull Requests are a great way to “combine” code when multiple users are working on the same files.
- We’ll show you how to use this feature in the next class.

# GitHub Issues

**Issues** Pull requests Labels Milestones Filters  [New issue](#)

104 Open ✓ 9,660 Closed Author Labels Milestones Assignee Sort

- .form-group-sm .form-group-lg shrink textarea** confirmed css 4  
#13989 opened 11 hours ago by limitstudios v3.2.1
- Tooltip unnecessarily breaks into multiple lines when positioned to the right** confirmed js 0  
#13987 opened 15 hours ago by hnrch02 v3.2.1
- Tooltip Arrows in Modal example facing wrong way** css 6  
#13981 opened a day ago by SDCore
- Table improvement** css 0  
#13978 opened a day ago by Tjoosten
- docs/dist files** docs 7  
#13977 opened 2 days ago by XhmikosR v3.2.1
- Potential solution to #4647** js 4  
#13976 opened 2 days ago by julioarmandof
- Bootstrap site: right-hand navigation text becomes rasterized after scrolling** css docs 4  
#13974 opened 2 days ago by mg1075 v3.2.1
- Dropdown toggle requires two clicks** js 1  
#13970 opened 3 days ago by Kimer

- GitHub Issues are a great way to keep track of bugs, feature requests, etc.

# Trello

The screenshot displays a Trello board titled "The Great Kitchen Redesign" under the organization "Taco's Organization". The board is organized into four columns: "Ideas", "To Do", "Doing", and "Done!".

- Ideas:** Contains three cards: "Get a new window valence to match the cabinet colors", "Install pot rack over the island" (with an image of a pot rack), and "Replace drawer knobs with antique ones" (with 4 votes).
- To Do:** Contains three cards: "Adjust water pressure of the sink" (with 1 vote and a due date of Nov 10, 2013), "Remove old refrigerator and stove" (with a photo of a person), and "Install new flooring" (with a color swatch image).
- Doing:** Contains two cards: "Buy new kitchen cart" (with 1 vote and a due date of Nov 27, 2013) and "Design new kitchen space" (with a floor plan image, 1 vote, and 2 comments).
- Done!:** Contains one card: "Call contractor" (with 1/2 progress).

On the right side, there is a "Menu" section with "Members" (showing 6 members) and "Activity" (showing recent actions like "Adam Simms changed the background of this board" and "Tracey Marlow moved Pick faucet to match new sink from Doing to Done!").

- Trello is a great project management tool for creating to-do lists and communicating updates.



# ***Example Project Ideas***

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# Event Searcher

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- Users type in the name of their favorite sporting team.
- Then using the SeatGeek API, your web application points them to the next game and location where the team is playing.
- The web application also provides them a link to Ebay where they can purchase memorabilia associated with the team.



# UN Data API

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- Use the Unofficial UN Data API to search a user specified country's health records.
- Then use a secondary data source (Google Maps, Flickr, YouTube, etc.) to provide additional context or data.
- Examples: Per Capita Govt Expenditures on Health, # of Physicians, Deaths due to HIV, Malaria Cases etc, low birth weight newborns



# Facial Recognition

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- Use the Face++ API
- Allow users to provide a URL link to a facial image then provide viewers with information on the image's gender, race, whether they are wearing glasses, and their age
- Search Pinterest to show pins that may interest them.



Or...

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***Just do your own thing.  
Be creative! Be ambitious!***

# ***Today's Focus***

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# By End of Day - Today

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- Brainstorm possible ideas
- Begin API Research
- Create an initial draft / sketch of the final design
- Create a short 1 page proposal listing out each of the following:
  - Project Title
  - Team Members
  - Project Description
  - Sketch of Final Product
  - APIs to be Used
  - Rough Breakdown of Tasks

# *Questions*

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