

# Game Time: Project Week

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The Coding Bootcamp

# ***Project Week Overview***

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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

## Next Class:

- Hardcore Development
- Instructor + TA Workshops

## Saturday's Class:

- Hardcore Development



# Project Week (Next Week)

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## **Next Week (M/T):**

- Hardcore Development

## **Next Week (W/Th):**

- Hardcore Development
- Presentation Prep

## **Saturday's Class:**

- 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.
- Because you ***DO KNOW*** shiz.

# *Teams*

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# Groups

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## Team #1

<NAME>, <NAME>, <NAME>,  
<NAME>

## Team #2

<NAME>, <NAME>, <NAME>,  
<NAME>

## Team #3

<NAME>, <NAME>, <NAME>,  
<NAME>

## Team #4

<NAME>, <NAME>, <NAME>,  
<NAME>

## Team #5

<NAME>, <NAME>, <NAME>,  
<NAME>

## Team #6

<NAME>, <NAME>, <NAME>,  
<NAME>

## Team #7

<NAME>, <NAME>, <NAME>,  
<NAME>

## Team #8

<NAME>, <NAME>, <NAME>,  
<NAME>



***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)
- Must have User Input Validation

# Coding – Nice To Haves

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- Utilize Firebase for Persistent Data Storage (Consider this basically a requirement).
- 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.

# ***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***

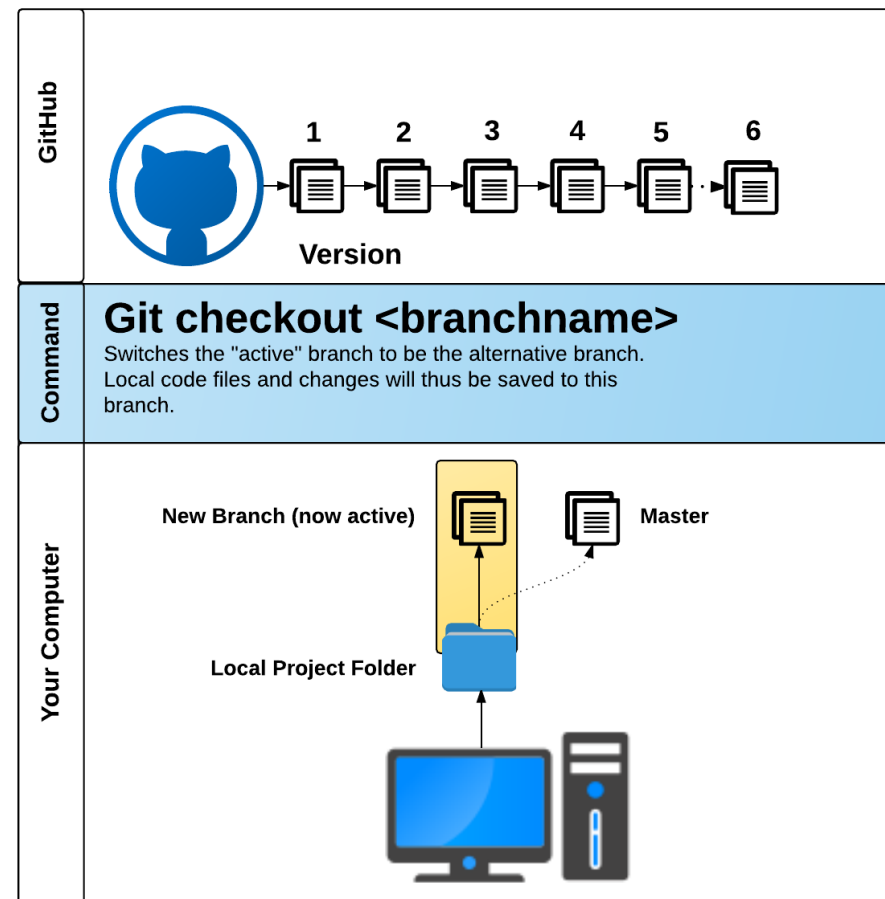
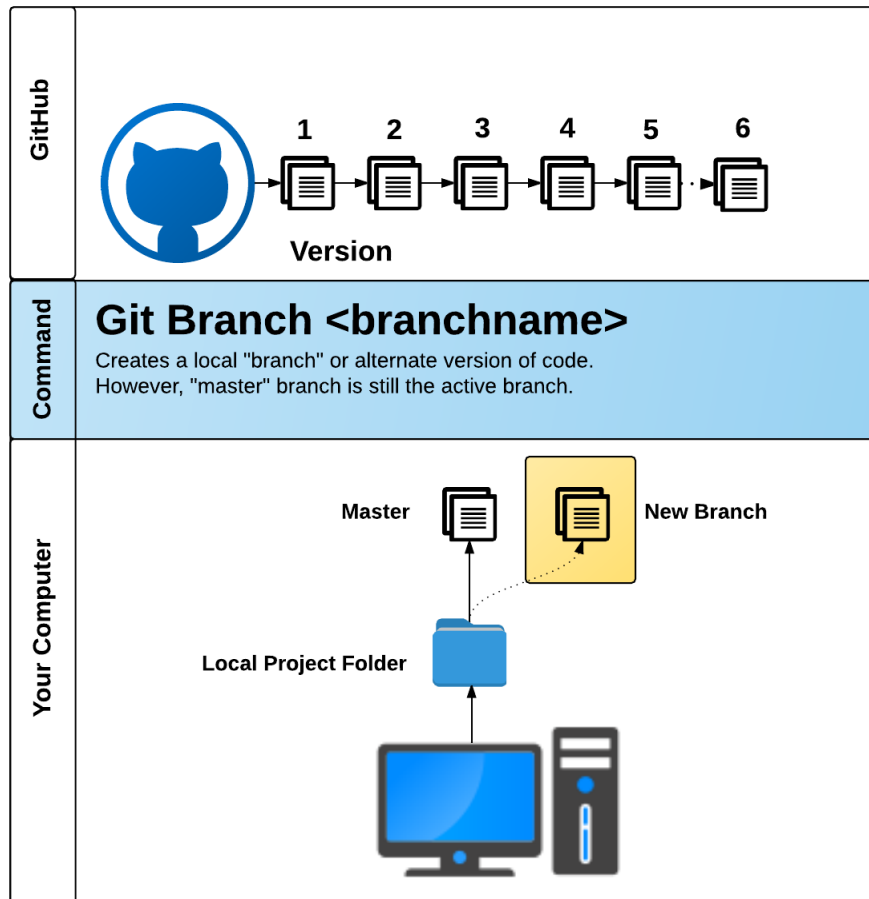
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# Collaboration is Critical!

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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

The screenshot displays the GitHub Issues interface for the Bootstrap project. At the top, there are tabs for 'Issues', 'Pull requests', 'Labels', and 'Milestones'. A search bar contains the text 'is:open is:issue'. A green 'New issue' button is on the right. Below the tabs, a summary bar shows '104 Open' and '9,660 Closed' issues. A header row includes filters for 'Author', 'Labels', 'Milestones', 'Assignee', and 'Sort'. The main content area lists several open issues, each with a title, status labels (like 'confirmed', 'css', 'js', 'docs'), a comment count, and a brief description of the issue.

Issue Title	Status Labels	Comments	Description
<b>.form-group-sm .form-group-lg shrink textarea</b>	confirmed, css	4	#13989 opened 11 hours ago by limitstudios v3.2.1
<b>Tooltip unnecessarily breaks into multiple lines when positioned to the right</b>	confirmed, js	0	#13987 opened 15 hours ago by hnrch02 v3.2.1
<b>Tooltip Arrows in Modal example facing wrong way</b>	css	6	#13981 opened a day ago by SDCore
<b>Table improvement</b>	css	0	#13978 opened a day ago by Tjoosten
<b>docs/dist files</b>	docs	7	#13977 opened 2 days ago by XhmikosR v3.2.1
<b>Potential solution to #4647</b>	js	4	#13976 opened 2 days ago by julioarmandof
<b>Bootstrap site: right-hand navigation text becomes rasterized after scrolling</b>	css, docs	4	#13974 opened 2 days ago by mg1075 v3.2.1
<b>Dropdown toggle requires two clicks</b>	js	1	#13973 opened 2 days ago by XhmikosR

- 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 Column:**
  - Card: "Get a new window valence to match the cabinet colors"
  - Card: "Install pot rack over the island" (includes an image of a pot rack)
  - Card: "Replace drawer knobs with antique ones" (includes an image of knobs)
- To Do Column:**
  - Card: "Adjust water pressure of the sink" (1 vote, 0/4, Nov 10, 2013)
  - Card: "Remove old refrigerator and stove" (includes an image of a refrigerator)
  - Card: "Install new sink" (1 vote, 0/10, Nov 4, 2013)
  - Card: "Install new flooring" (includes an image of a color swatch)
  - Card: "Buy paint for cabinets" (1 vote)
- Doing Column:**
  - Card: "Pick countertop colors" (Nov 27, 2013)
  - Card: "Buy new kitchen cart" (1 vote)
  - Card: "Design new kitchen space" (1 vote, 2 votes)
- Done! Column:**
  - Card: "Call contractor" (1/2)
  - Card: "Pick faucet to match new sink" (1 vote, 2 votes)

On the right side, a "Menu" sidebar shows the "Members" section with avatars of team members and an "Activity" log with recent updates, such as "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
- Use Firebase to update ALL users of the site about the current search



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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