

**Day 24**

# **Game Time: Project Week**

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**The Coding Bootcamp | May 17, 2016**

# ***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

## Next Class:

- Hardcore Development
- Instructor + TA Workshops

## Saturday's Class:

- Hardcore Development



# Project Week (Next Week)

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## Next Week (M/T):

- Interview Questions (Class Lecture)
- Hardcore Development

## Next Week (W/Th)

- Debug Work (Class Lecture)
- 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 uses 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 (Heroku or Firebase)
- 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.

# 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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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*

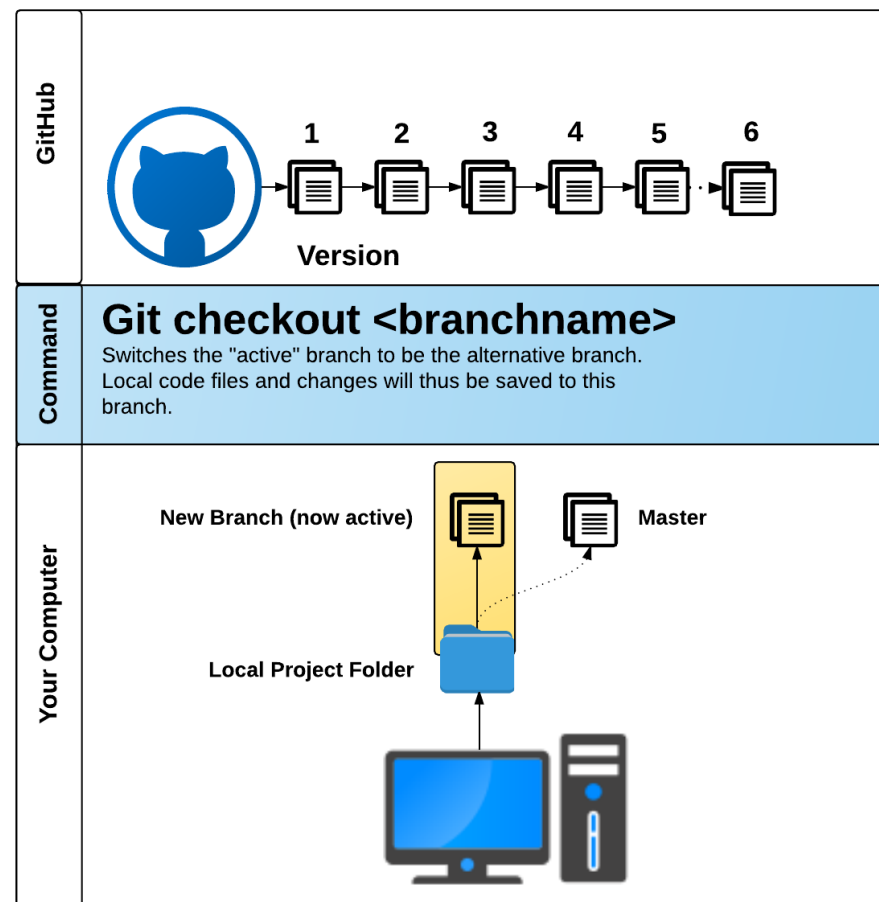
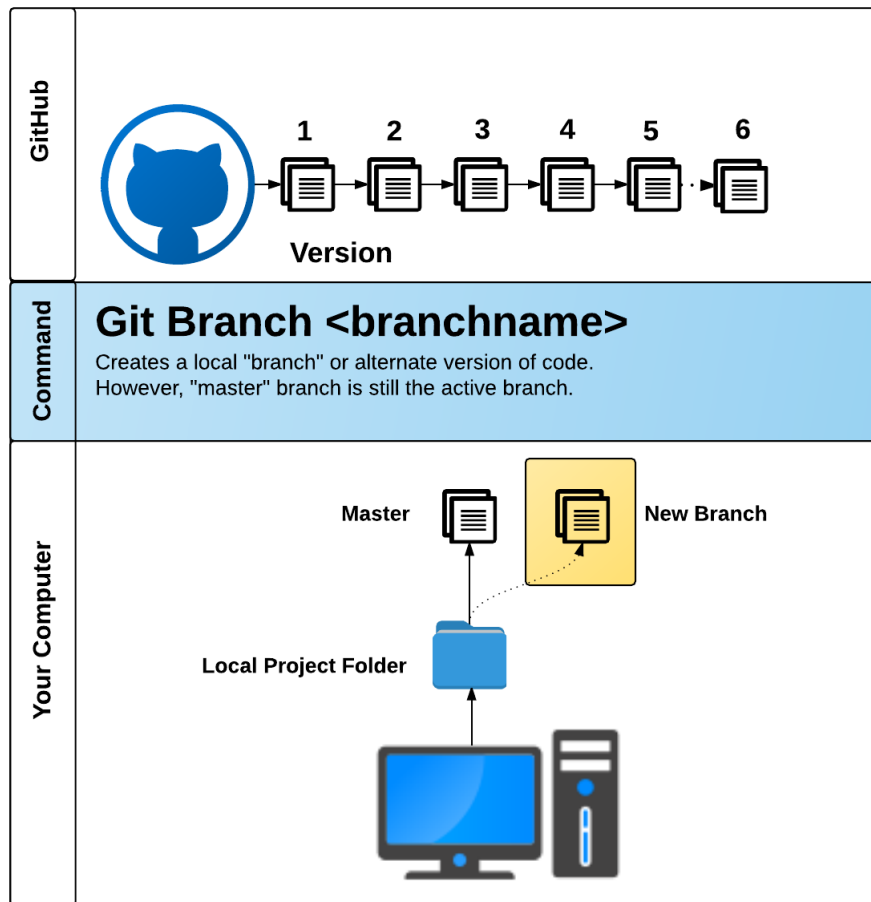
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# Collaboration is Critical!

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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

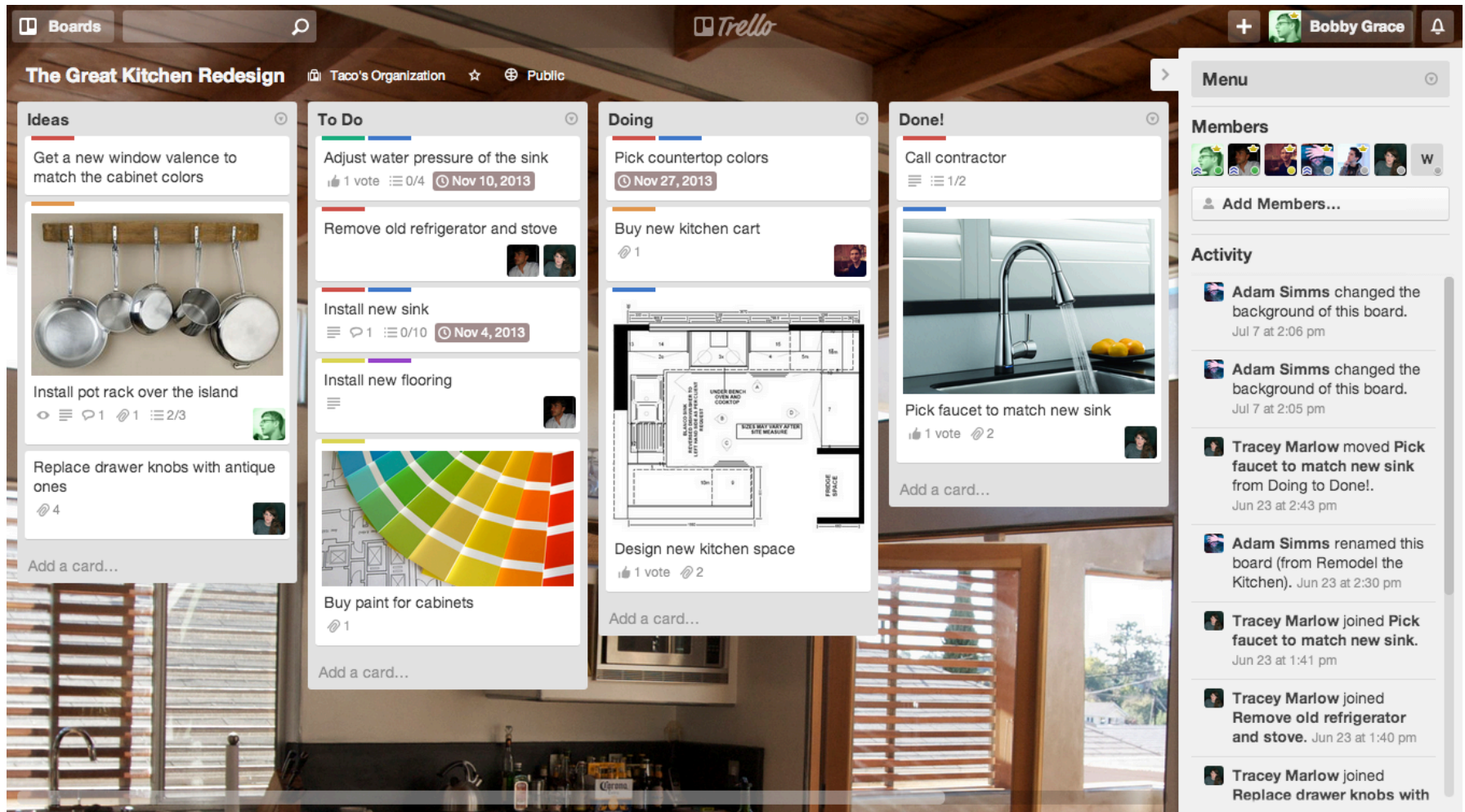
Issues Pull requests Labels Milestones Filters  New issue

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

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

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

# Trello



- 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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