

RUTGERS | CODING BOOTCAMP

Session 8.1 - Intro to Group Projects

Project Week(s) Overview

You made it!!!

Project Week

First Class

- Divide into groups
- Begin researching APIs
- Outlining project ideas
- Submitting Project Proposal for Approval

This Week & Next Week:

- Initial Design work
- Bulk of Development Development
- Presentation prep
- Some lessons also

Next Saturday Class:

- Group Presentations
- Pizza!
- Awards!

- Use this as an opportunity to push yourself and prove what you know.
- Use the opportunity to get creative.
- Because you **DO KNOW** things (shiz).

Get into Your Teams

Your Task

To build something
awesome

Coding Requirements

- 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 (Heroku or Firebase)
- Must have User Input Validation

Coding Nice to Haves

- Utilize Persistent Data Storage - a database like Firebase or another persistent data store you may prefer
- Mobile Responsive
- Use an alternative CSS framework like Material or Foundation

Presentation Requirement

- 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!
- Speaking intelligently about tech > doing tech sometimes.

Metrics

Metrics

Concept

Design

Functionality

Collaboration

Presentation

Award Categories

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

Past Projects

Last Class

Let's take a moment to see what the last class built...

Last Class Projects

BitCurrent:

<http://bitcurrents.herokuapp.com/>

FaceCurrent:

<http://face-check.herokuapp.com/>

ToGoList:

<http://to-go-list.herokuapp.com/>

GymTriton:

<http://gymtrition.herokuapp.com/>

OurPets:

<https://showusapet.herokuapp.com/>

Uh?

<https://immense-forest-3648.herokuapp.com/>

API Suggestions

API Suggestions

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
spotify web api	yes	oauth	yes/no
reddit api	yes	n/a	no
youtube api	yes	api key	yes/no
linkedin	yes	api key	yes
soundcloud	yes	api key	yes
wikipedia	yes	n/a	n/a
rotten tomatoes	yes	api key	yes
flickr	yes	n/a	n/a
pinterest api	yes	n/a	n/a
google search api	yes	n/a	n/a
tumblr api	yes	n/a	n/a
marvel api	yes	api key	yes
geonames api	yes	n/a	n/a
OMDB	yes	n/a	n/a
Zillow	no	n/a	n/a
Open Street Maps	yes	n/a	n/a
GovTrack.us	yes	n/a	n/a
Sqoot	yes	api key	yes
GoogleMaps	yes	n/a	n/a
Giphy	yes	api key	yes
JSFiddle	yes	n/a	n/a
Bitcoin Charts	yes	n/a	n/a

StackOverflow	yes	api key	yes
ProPublica NonProfit API	Yes?	n/a	no
AssessmentNJ Counties	Yes	n/a	no
AssessmentNJ Towns	Yes	n/a	no
AssessmentNJ Street Addresses	Yes	n/a	no
UN Data API (https://www.undata-api.org/docs)	Yes	api key	yes
FaceFacePlus API	Yes	API Key	Yes
MusiXMatch (Lyrics)	Yes	API Key	Yes
Words API (https://www.wordsapi.com/)	Yes	Token	No

<https://news.ycombinator.com/item?id=7546040>

<http://www.programmableweb.com/apis/directory>

get access to a REST console for all different API's: <https://apigee.com/console/linkedin?u=0>

spotify example (no auth): <http://www.codemaut.co.uk/wp-content/themes/codemaut/demos/simple-spotify-song-search/>

reddit example:

<http://jsfiddle.net/danielvassallo87/6k2j5yqL/>

<http://speckyboy.com/2014/01/22/building-simple-reddit-api-webapp-using-jquery/>

soundcloud example:

<http://jsfiddle.net/tobiasbeuving/26pHX/5/>

wikipedia example:

<http://jsfiddle.net/gautamadude/hmjjg/1/>

rotten tomatoes example:

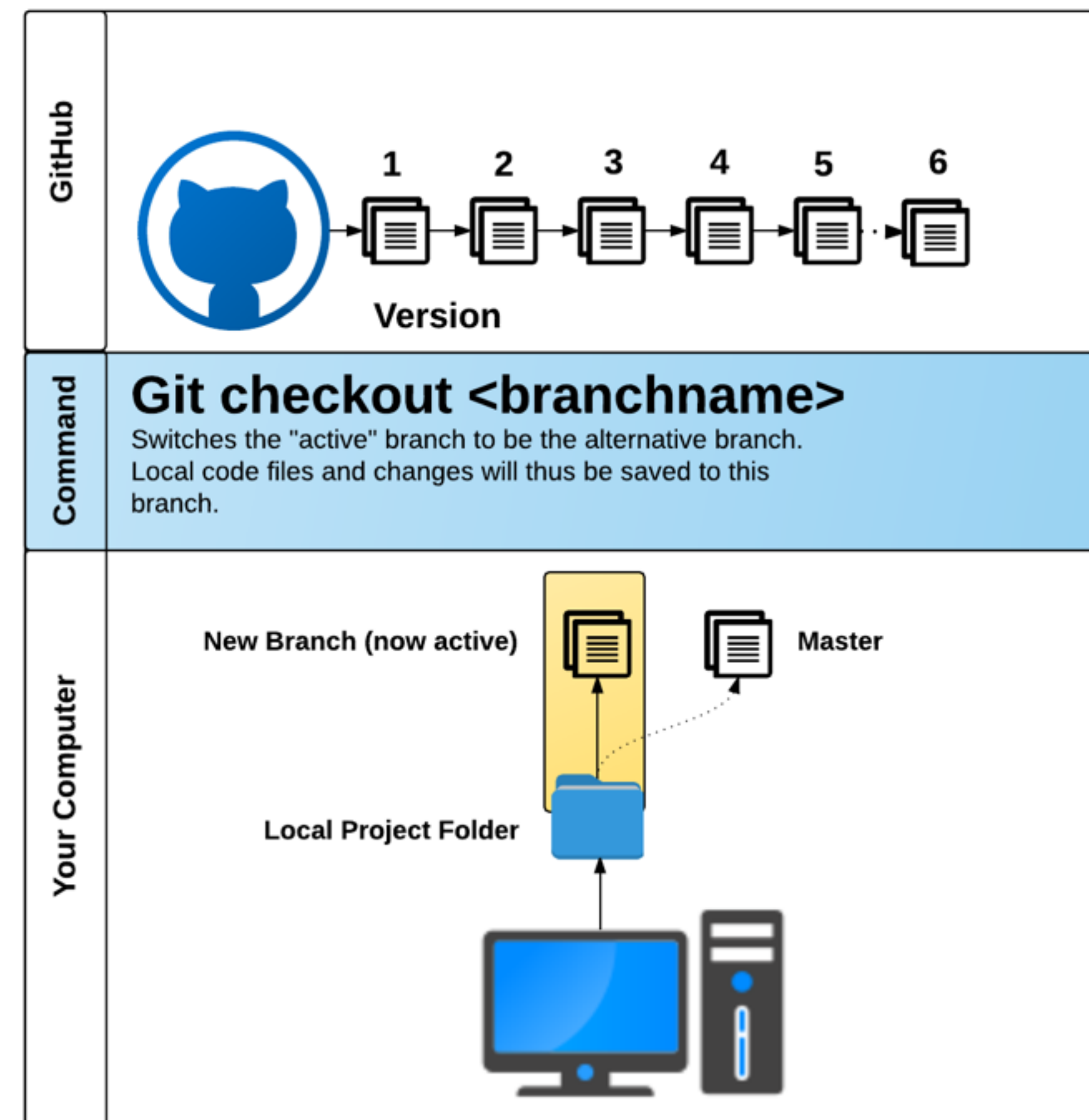
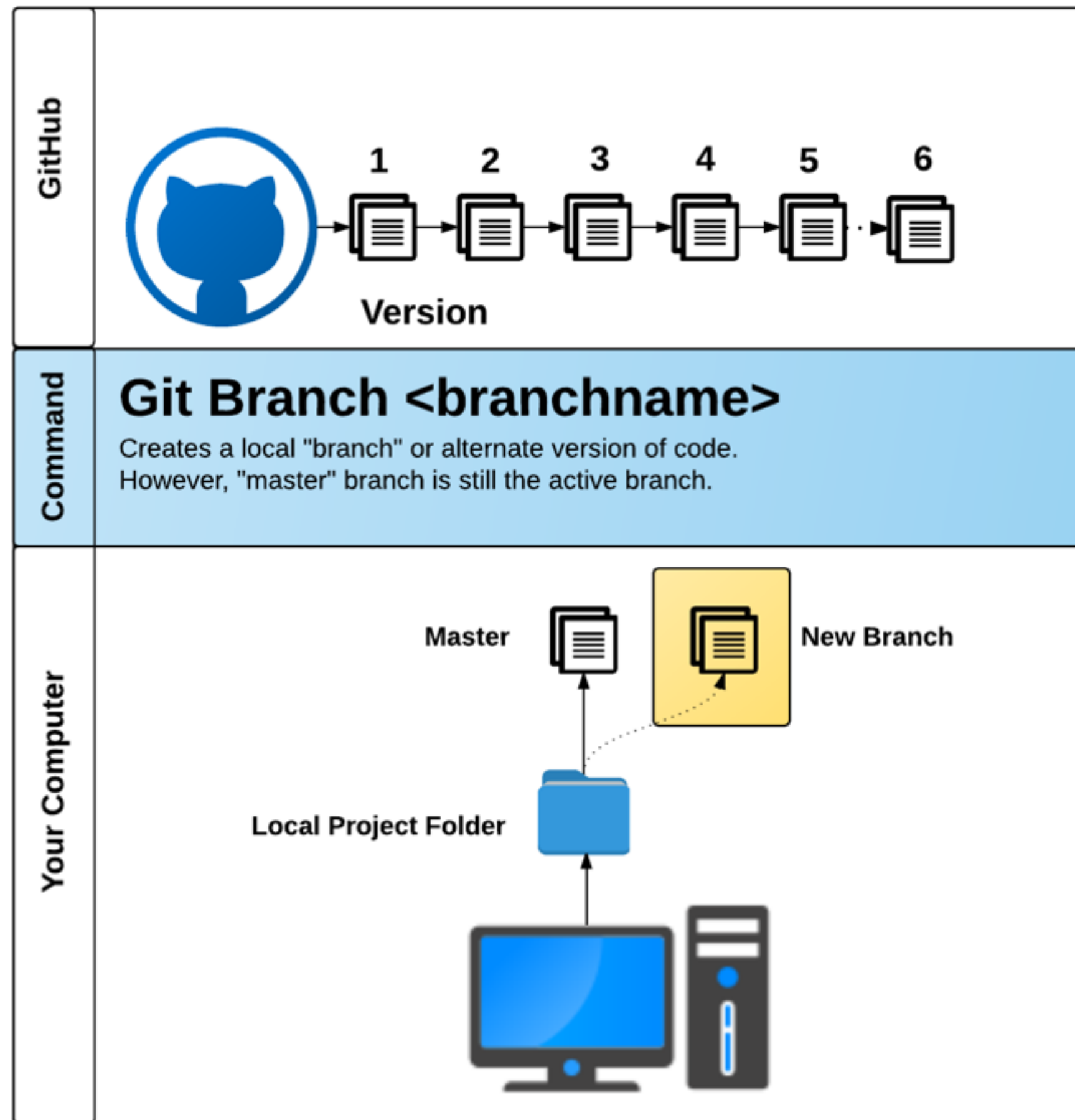
<http://developer.rottentomatoes.com/docs/read/json/v10/examples>

pinterest api example:

<http://jsfiddle.net/arunpjohny/78PHM/>

Tools

Use Git More. Branches



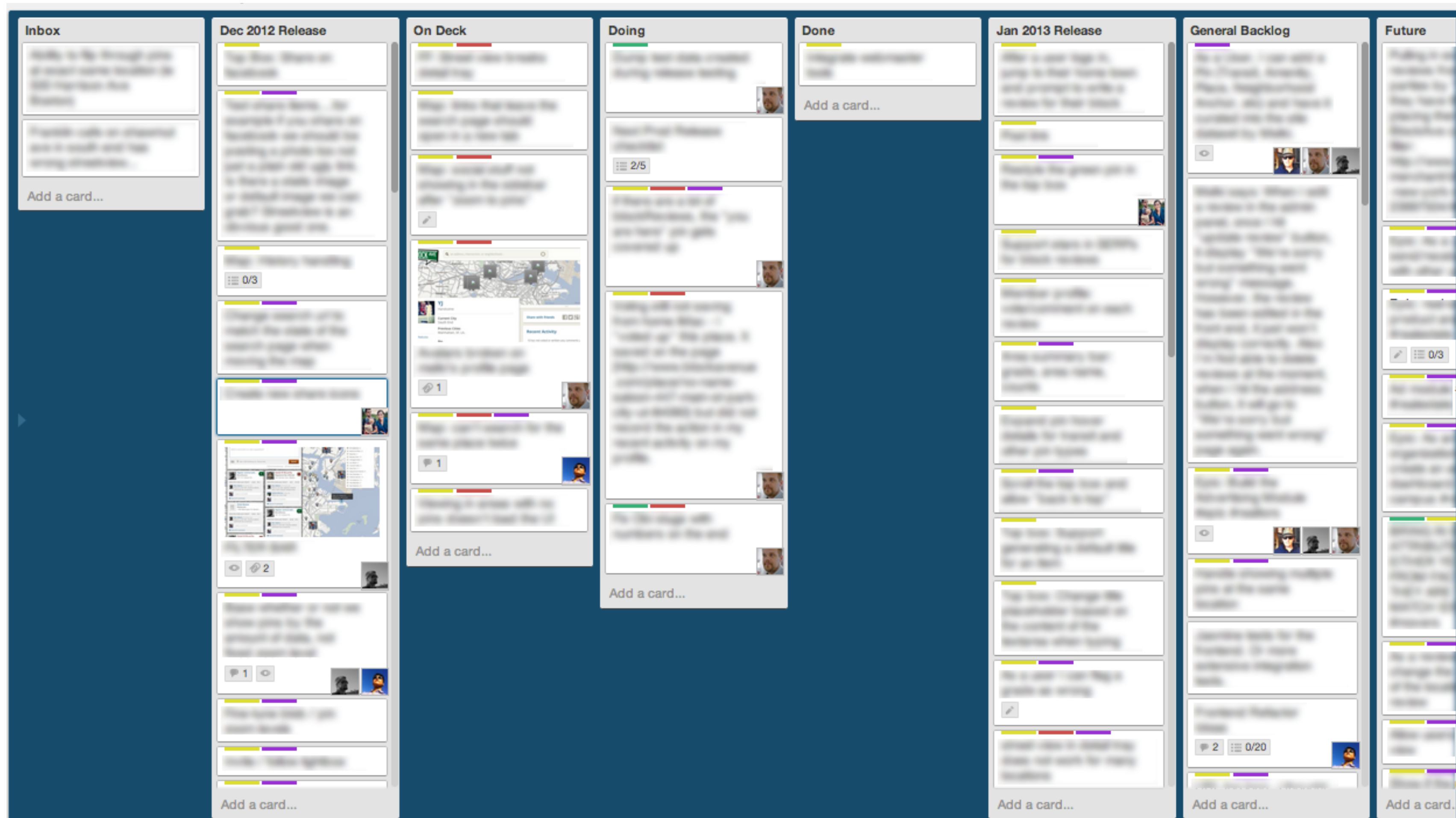
Git Collaboration + Issues

Issues Pull requests Labels Milestones Filters is:open is:issue 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
#13973 opened 2 days ago by XhmikosR

Trello



Today's Focus

Today's Focus

- Brainstorm possible ideas
- Begin API Research
- Create an initial draft / sketch of the final design
- Make sure you know how to use Git Collaboratively. (PRACTICE THIS!!!!)
- 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

Questions