# GIT Immersion

Welcome to the new era ;)

Will you become one of the professional programmers?

Speaker: Tanay

### Introduction



Github Git Pages

Let's get to know each other a little bit:

- Name
- Where do you study/work?
- One interesting fact about you.

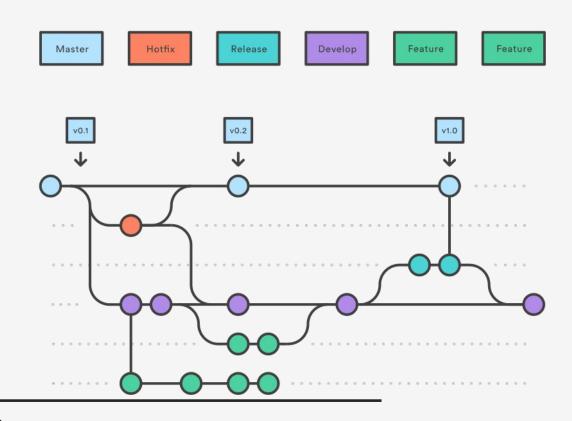
### What is Git?

Distributed version control system It is free and open source

#### Primary use:

- Code management
- Data integrity is assured
- Team collaboration is allowed
- Keep track of changes in files





### Steps to follow

Github Account

Create Repository

Create a branch

Github Git Git Pages

Step 1: Create a Github account



Step 2: Create a repository



Step 3: Create a new branch



### Steps to follow

Github Account

Download Git

Open terminal

Step 1: Create a Github account

Step2: Download Git

Step3: Open terminal (macOS)

Download GitBash (windows)



Github

Git

Git Pages

## Project: Hello World

**Purpose**: Simple exercise to get used to GIT

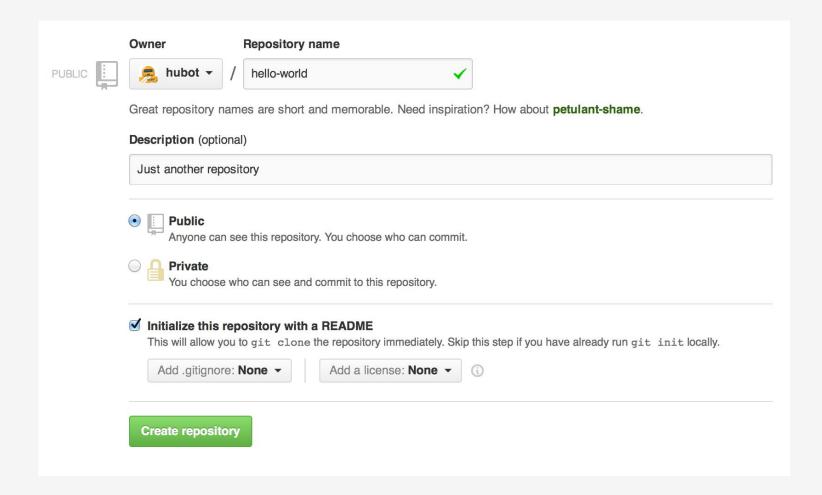
#### Things you will learn after today:

- 1. Create and use a <u>repository</u>
- 2. Start and manage a new branch
- 3. Make changes to file => push them to GIT as *commits*
- 4. Open a *pull request*
- 5. Merge

Lets start !!!

#### 1. Create and use a repository

- In the upper right corner, next to your avatar or identicon, click and then select New repository.
- Name your repository hello-world.
- 3. Write a short description.
- Select Initialize this repository with a README.
- 5. Create repository



#### 2. Start and manage a new branch

Why do we need branching? We can work on more than 1 repository at 1 time

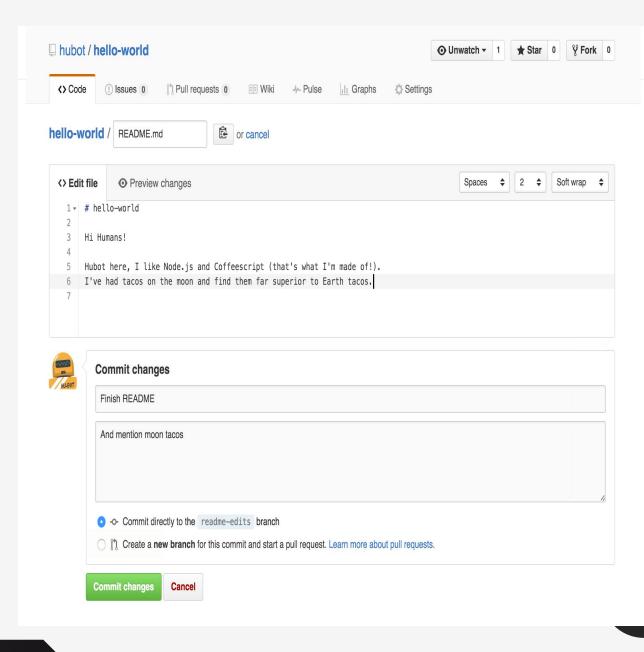
- 1. Go to your new repository **hello-world.**
- 2. Click the drop down at the top of the file list that says **branch: master**.
- 3. Type a branch name, readme-edits, into the new branch text box.
- 4. Select the blue **Create branch** box or hit "Enter" on your keyboard.

# 3. Make changes to file then push them to GIT as commits

+ Save changes are called commits

#### Steps:

- Click the README.md file.
- Click the pencil icon in the upper right corner of the file view to edit.
- 3. In the editor, write a bit about yourself.
- 4. Write a commit message that describes your changes.
- 5. Click **Commit changes** button.

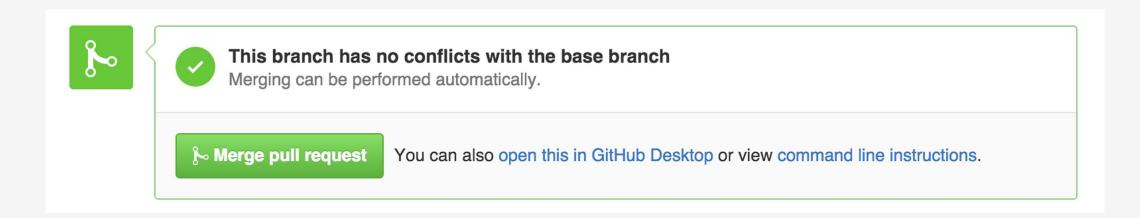


#### 4. Open and merge a pull request

- 1. Click the **Pull Request** tab, then from the Pull Request page, click the green **New pull request** button.
- 2. In the **Example Comparisons** box, select the branch you made, readme-edits, to compare with master (the original).
- 3. Look over your changes in the diffs on the Compare page, make sure they're what you want to submit.
- 4. When you're satisfied that these are the changes you want to submit, click the big green **Create Pull Request** button.
- 5. Give your pull request a title and write a brief description of your changes.
- 6. **Create pull request** when you are done.

## Merge a pull request

- Merging your readme-edits branch into the master branch.
- Steps:
  - 1) Click the green **Merge pull request** button to merge the changes into master.
  - 2) Click Confirm merge.
  - 3) Go ahead and delete the branch, since its changes have been incorporated, with the **Delete branch** button in the purple box.



### 5. GitHub Exploration

#### **Collections:**

- Machine learning
- Government apps
- Made in Africa
- How to choose your first open source project
- Open journalism
- Design essentials













## 5. GitHub Exploration

#### **Topics:**

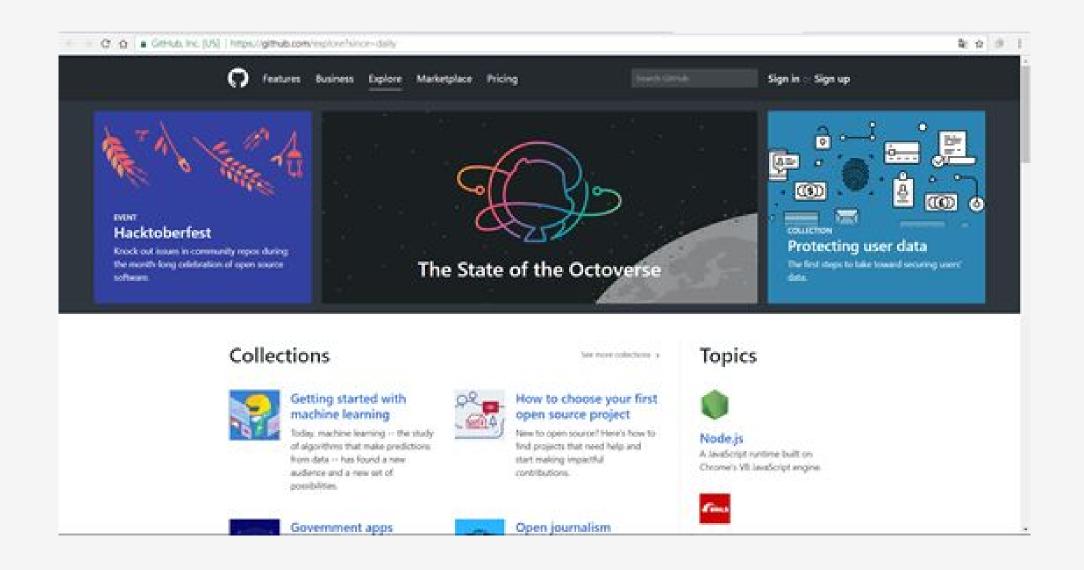
- Node.js
- Rails
- Android
- React



## 5. GitHub Exploration

#### **Events:**

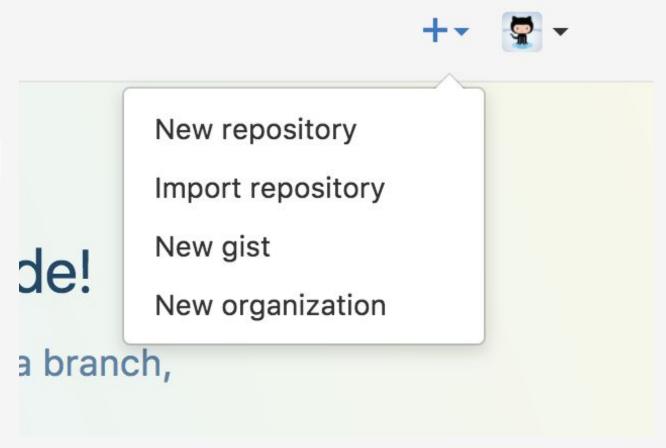
- GitHub Universe
- GitHub Constellation
- Git Merge
- GitHub Satellite

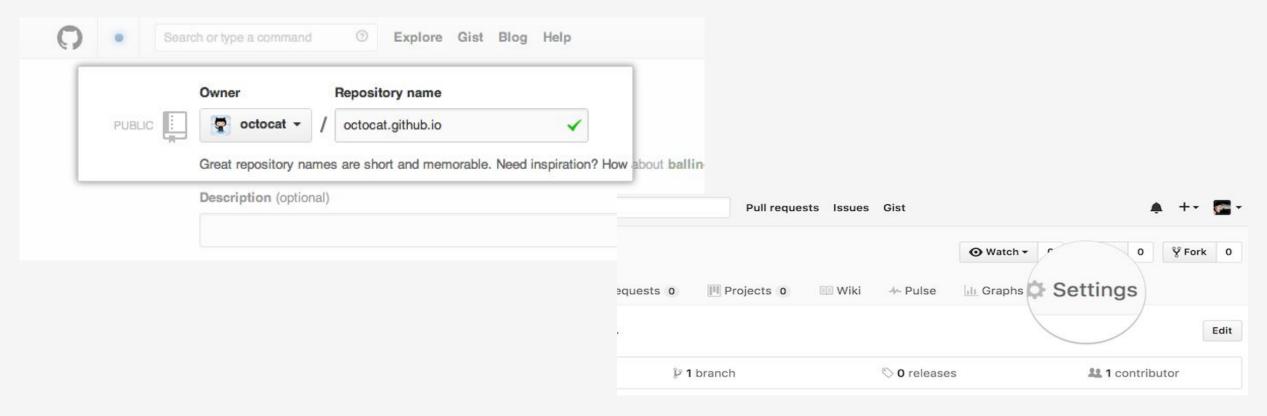


Github Git Git Pages

## 6. Git Pages

You'll create a new repository to get started.

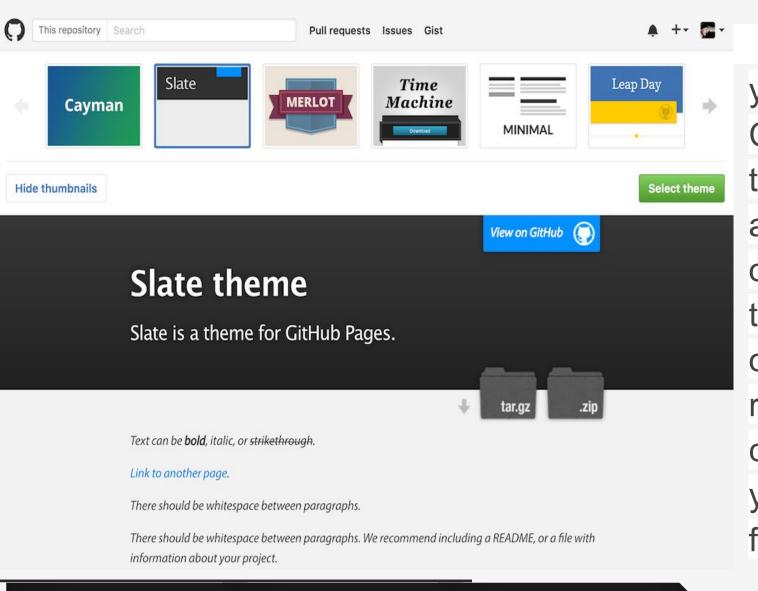




On the new repository screen, you need to give this repository a special name to generate your website. Your website's files will live in a repository named username.github.io(where "username" is your actual GitHub user name). To begin setting up your site, you have to open the Settings tab

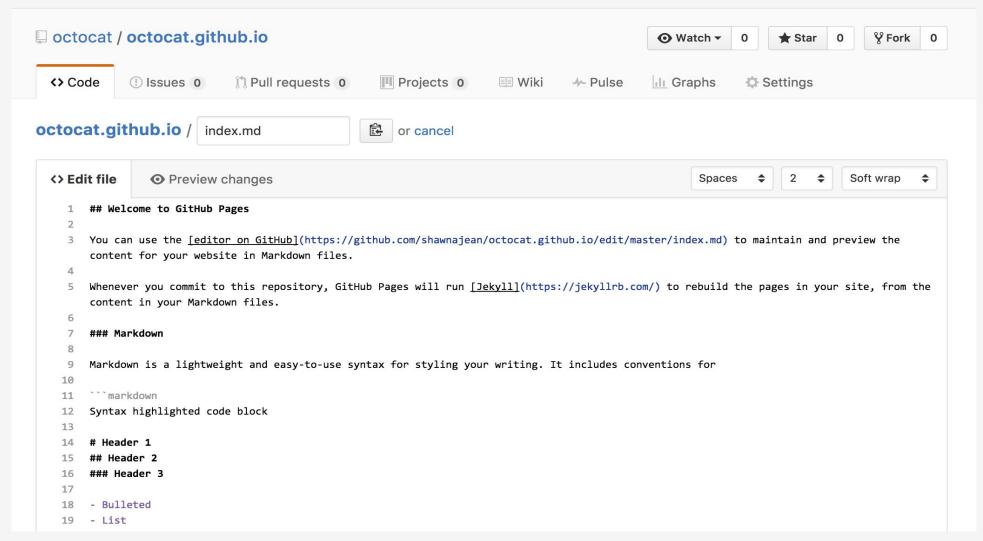
If you scroll down on the settings page, you'll see the **GitHub Pages** section near the bottom. Click the **Choose a theme** button to start the process of creating your site.

GitHub Pages
Your site is ready to be published at https://octocat.github.io/.
GitHub Pages is designed to host your personal, organization, or project pages from a GitHub repository.
Source
our GitHub Pages site is currently being built from the master branch. Learn more.
master branch - Save
Jser pages must be built from the master branch.
Choose a theme
Custom domain
Custom domains allow you to serve your site from a domain other than octotester-sj.github.io. Learn more.
Save
Enforce HTTPS — Required for your site because you are using the default domain (octotester-sj.github.io)
HTTPS provides a layer of encryption that prevents others from snooping on or tampering with traffic to your site.  When HTTPS is enforced, your site will only be served over HTTPS. Learn more.
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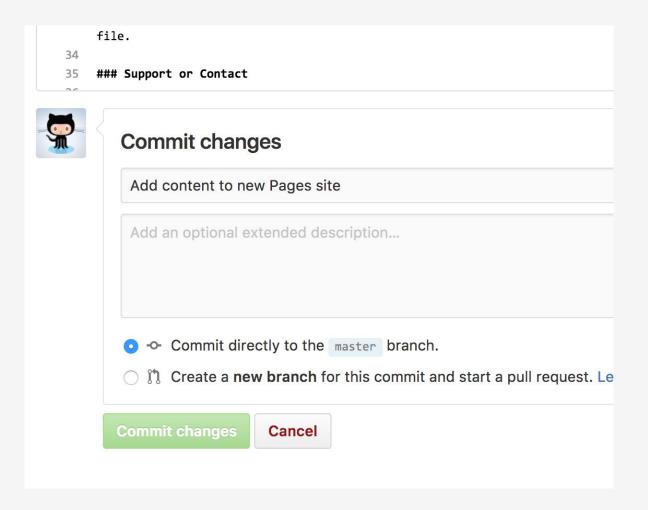


Once you've clicked the button, you'll be directed to the Theme Chooser. You'll see several theme options in a carousel across the top of the page. Click on the images to preview the themes. Once you've selected one, click **Select theme** on the right to move on. It's easy to change your theme later, so if you're not sure, just choose one for now.

Github Git Git Pages



Now, you'll write your content. This part requires a bit more thought, but you can keep the default content for now, if you'd like.



Once you're finished editing, scroll down to the bottom of the page and click **Commit changes**.

Github Git

Git Pages

cout<<"Thank you for attending my workshop\n";