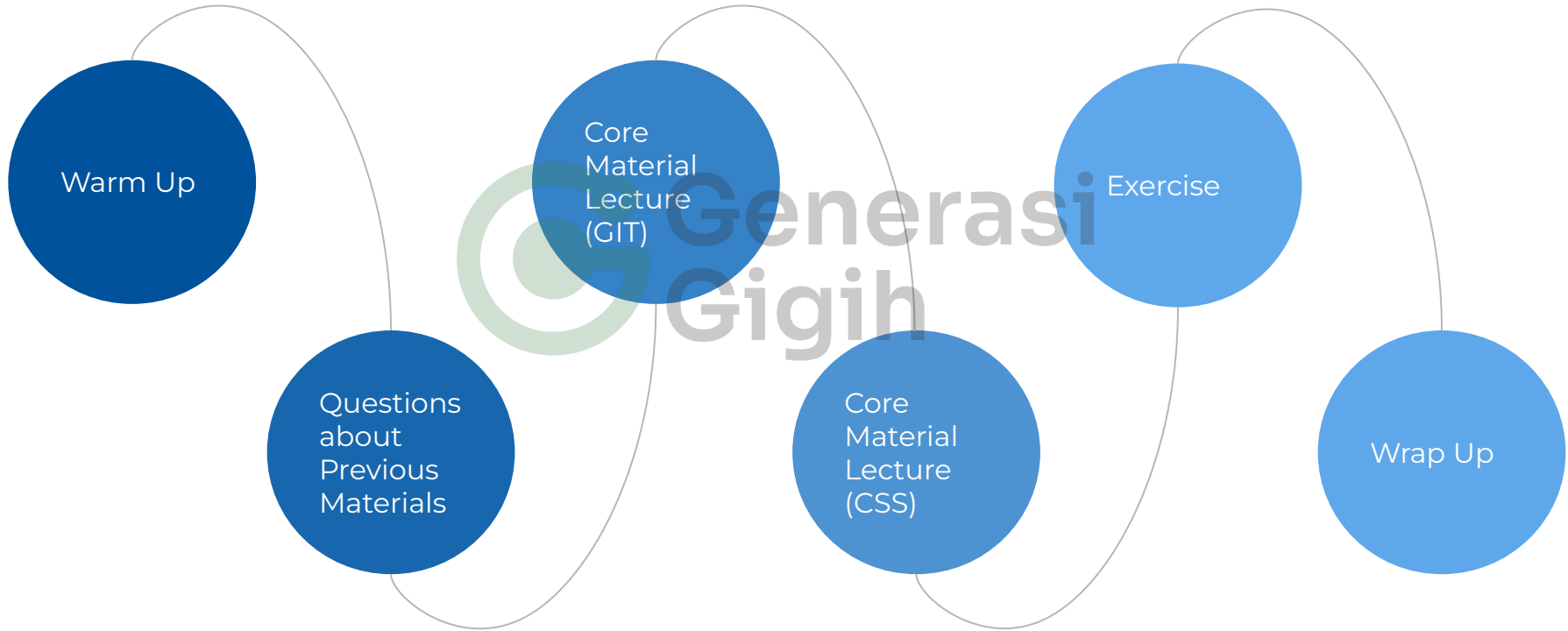


Full Stack Engineer ●●●

Module 1.3: Git & CSS



Our Agenda



Let's Warm Up!



Let's Discuss



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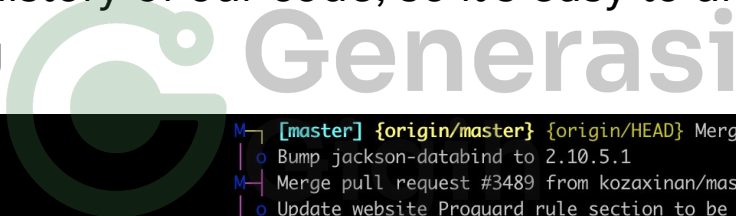
Git
CSS

Let's Talk About The Materials

Git

Git

- Is a version control tools
- Used to track changes to source code during software development
- Could ease collaboration between programmers in a large project
- Also helps to save history of our code, so it's easy to undo certain mistakes we make during coding



```

2020-12-10 10:01 -0500 Jake Wharton      M- [master] {origin/master} {origin/HEAD} Merge pull request #3502 from JoaoPPinto/master
2020-12-10 10:42 +0000 João Pinto         | o Bump jackson-databind to 2.10.5.1
2020-11-02 10:53 -0500 Jake Wharton      M- Merge pull request #3489 from kozaxinan/master
2020-11-02 11:45 +0300 Sinan Kozak        | o Update website Proguard rule section to be same as Readme
2020-10-19 21:29 -0400 Jake Wharton      M- Merge pull request #3484 from h4n23s/jackson-fix
2020-10-19 22:18 +0200 Hannes Gehrold    | o Fixing dead link
2020-09-15 11:56 -0400 Jake Wharton      M- Merge pull request #3460 from square/jw/fifteen-sixteen/2020-09-15
2020-09-15 11:21 -0400 Jake Wharton      | o Java 15 final
2020-06-17 23:18 -0400 Jake Wharton      M- Merge pull request #3424 from clydebarrow/robobvm
2020-06-12 14:44 +1000 clydebarrow        | o Prevent use of Java 8 features on RoboVM
2020-06-10 08:24 -0400 Jesse Wilson      M- Merge pull request #3415 from square/jw/gjf/2020-06-08
2020-06-08 19:53 -0400 Jake Wharton      | o {origin/jw/gjf/2020-06-08} Update google-java-format to 1.8
  
```

Sample Git History from Retrofit Project (<https://github.com/square/retrofit>)

Working with Git

Repository is a Git folder which contains all information regarding our code and the code itself.

Initialize git repository

```
git init
```

Adding files to and saved files changes to git

```
git add [filename]
```

```
git commit -m "[commit_message]"
```


Local vs Remote

Repository is a Git folder which contains all information regarding our code and the code itself.

Local

- Local repository is a place where we make changes to the code
- We do git add and git commit locally

Remote

- When we are done with our local changes, we need to “upload” our changes to remote repository
- Remote repository is the one which is also accessible by other people

Upload Changes from **Local** to **Remote**

Upload / push changes

```
git push
```

Retrieve changes from remote

```
git pull
```

View status of local repository

```
git status
```

View history of changes (including remote)

```
git log
```

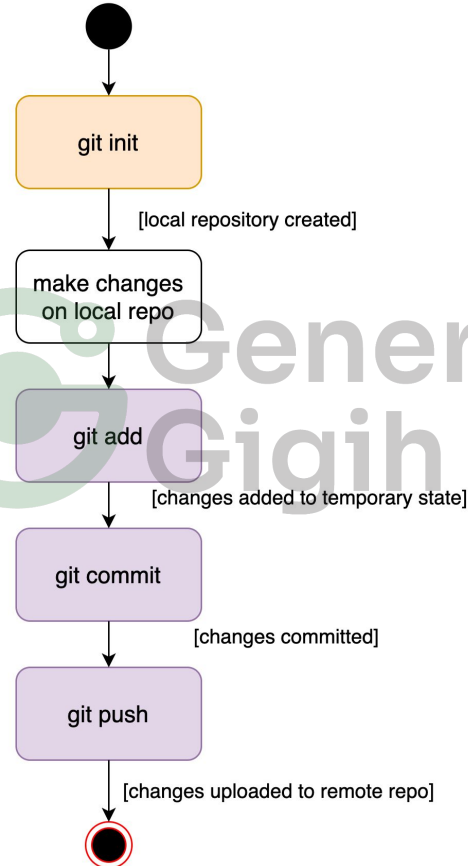
Download existing project from remote to local

```
git clone [remote_repo_url]
```

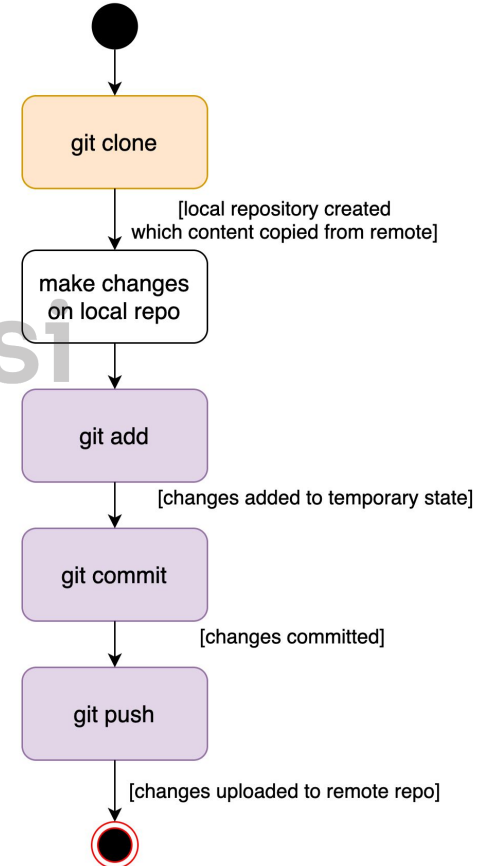
Git Flow Comparison



start project from local



start project from remote / existing project already exists



Undo / Revert Code Changes

- When working on a project, sometimes we realized we make mistakes and want to return to previous point of our code. For example, we want to create sorting algorithm, but we realized the looping part we code minutes ago is wrong.
- With git, we can easily return to the point before we do looping part easily without excessive “undo”.

Note: remember to do git commit frequently.

Undo-Related Git Commands

Clear uncommitted changes

```
git stash
```

Undo / revert certain commit

```
git revert [commit_hash]
```

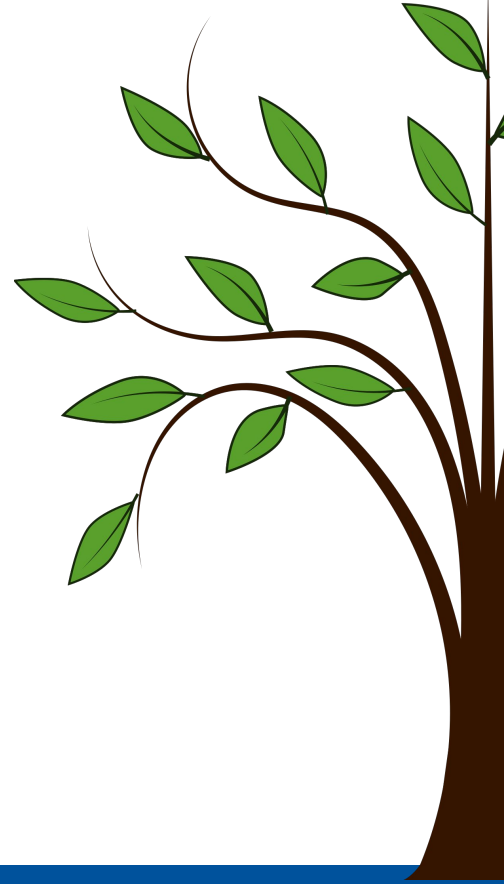
Undo last commit

```
git reset HEAD~1
```

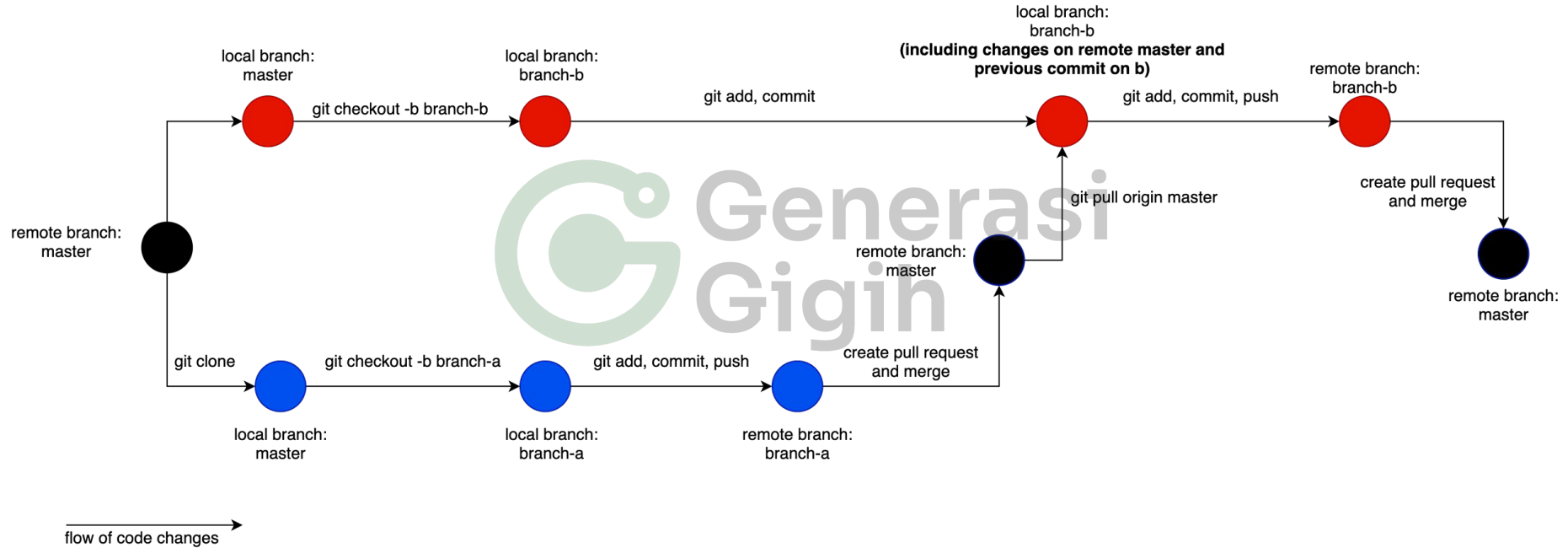


Git Branches

- When we are working in a **large code project**, usually we will work with **several people in a team**. Each person in this team is responsible for a **specific feature**.
- Example: Person A is responsible for payment feature. Person B is responsible for chat feature.
- Branches here will allow developers to work on different features or fixes in parallel without interfering with each other's work
- Branches allow **different people to make different changes** to the same remote repository.



Sample Flow When Working with Branches



Working with Git Branches

Download code from existing remote branch

```
git pull origin [branch_name]
```

List all existing local branches

```
git branch
```

Upload code to existing remote branch

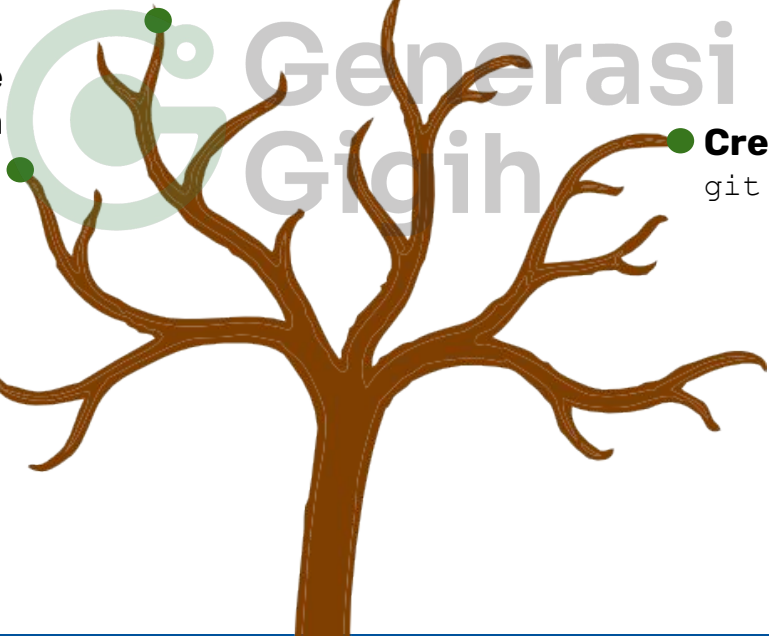
```
git push origin [branch_name]
```

Create new local branch

```
git checkout -b [branch_name]
```

Move to existing local branch

```
git checkout [branch_name]
```



Lets play some games


<https://learngitbranching.js.org/>



CSS

Review: CSS

What would this snippet do



```
h1 {  
  font-size: 36px;  
  color: white;  
  font-weight: bold;  
}
```

Review: CSS



```
h1 {  
  font-size: 36px;  
  color: white;  
  font-weight: bold;  
}
```

- Style all h1 element on the page
- Sets font size of the text inside the h1 element to 36 pixels
- Sets the color of the text inside the h1 element to white.
- Make the h1 element to appear in bold

Review: CSS



```
#id1 h1 {  
  font-size: 36px;  
  color: white;  
  font-weight: bold;  
}
```

- Style all h1 element with id equals to id1 on the page
- Sets font size of the text inside the h1 element to 36 pixels
- Sets the color of the text inside the h1 element to white.
- Make the h1 element to appear in bold

Review: CSS



```
div h1 {  
  font-size: 36px;  
  color: white;  
  font-weight: bold;  
}
```

- Style all h1 element that inside a div on the page
- Sets font size of the text inside the h1 element to 36 pixels
- Sets the color of the text inside the h1 element to white.
- Make the h1 element to appear in bold

Review: CSS

<https://flukeout.github.io/>



Additional: Flexbox

- Flexbox is a layout system in CSS that provides a powerful and flexible way to arrange and align elements in a container.
- is based on a parent-child relationship, where the parent element is referred to as the "flex container" and the child elements are referred to as "flex items".
- To understand it better: <https://flexboxfroggy.com/>

Hands On about the material

Imagine you're designing Spotify. Design a page in plain HTML and CSS, that has certain sections

- Show all songs
- Show your most played songs
- Able to add songs to your playlist

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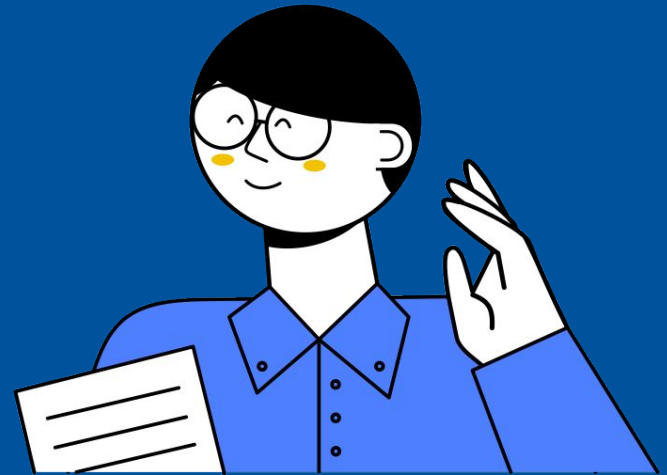
You need to design only the CSS and HTML. No need for functionalities for now.

After that, create a Repo in github and share the repo link to us!



Showcase Time!

Q&A!



Finally, Let's Wrap Up!

**See you in the
next session!**

