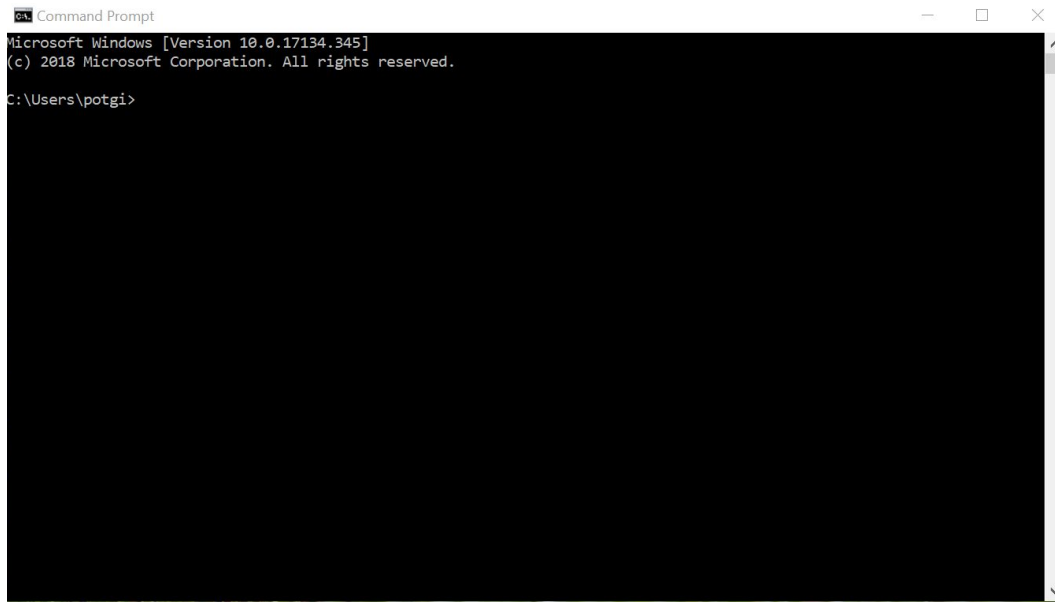


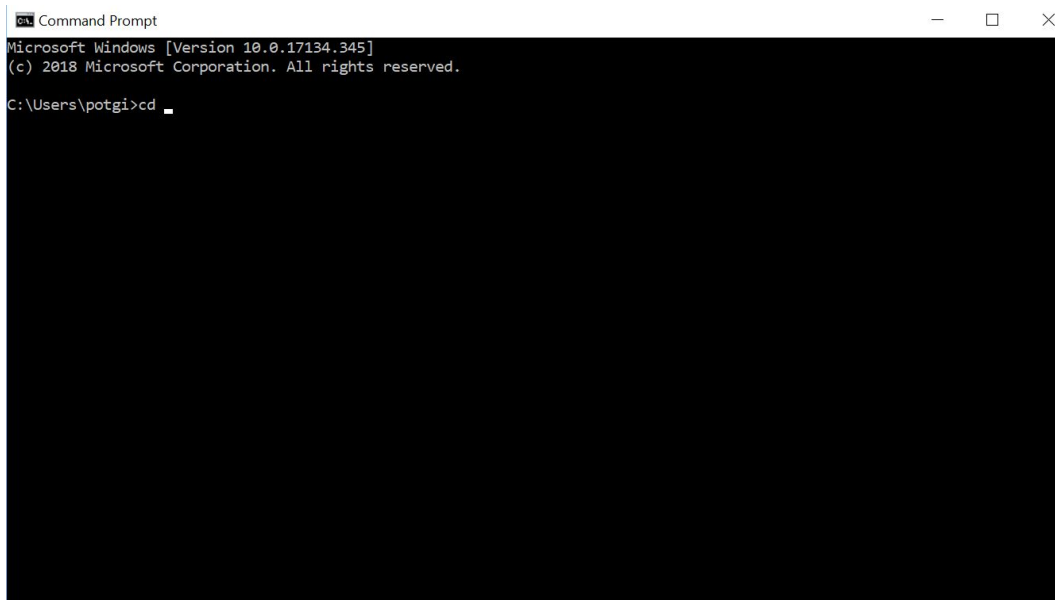
GIT BASICS – AN INTRODUCTION

1. Download git (<https://git-scm.com/downloads>) and sign-up to GitHub (<https://github.com/>).
2. Open the command prompt (windows) or the terminal application (mac).



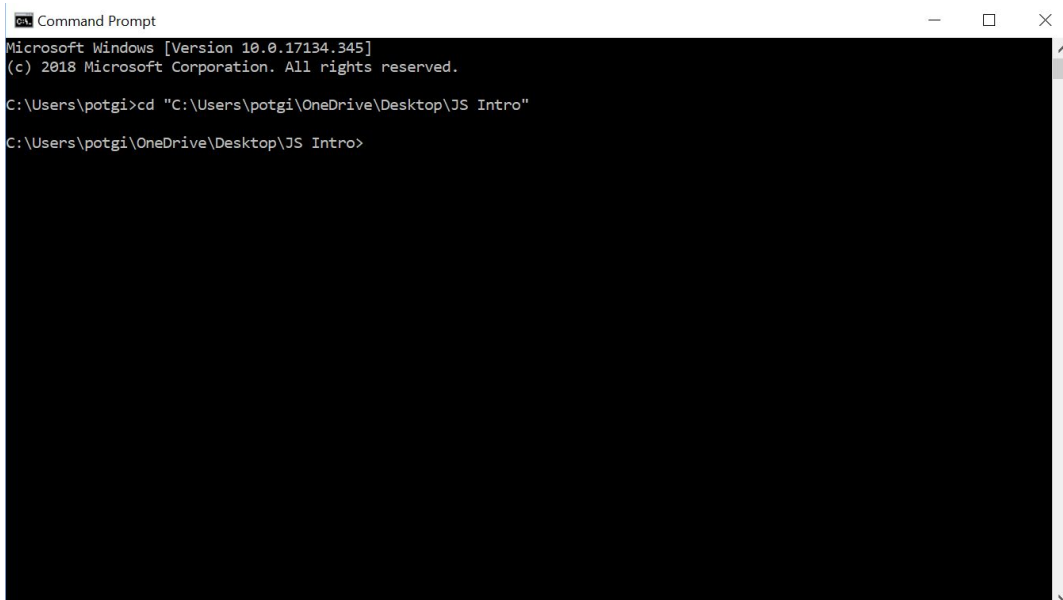
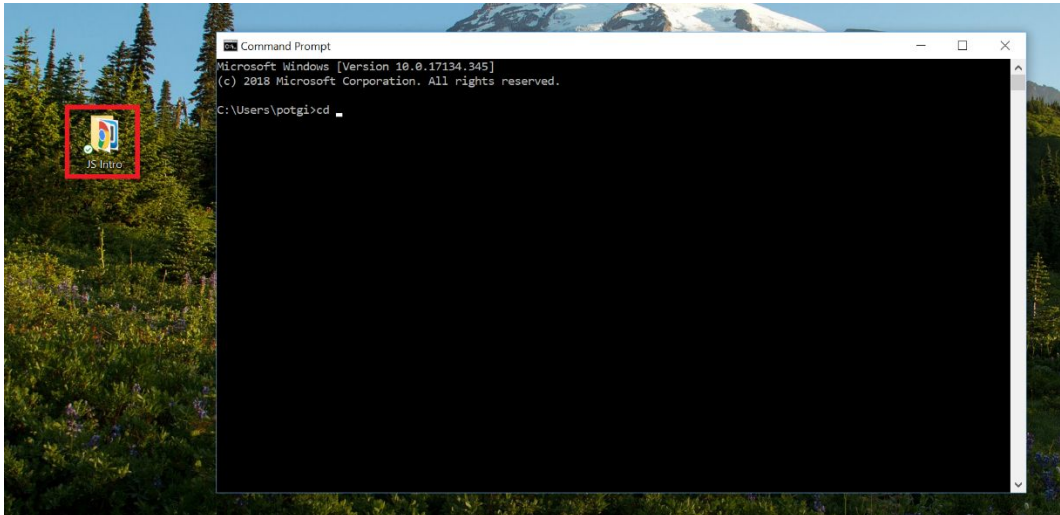
```
Command Prompt
Microsoft Windows [Version 10.0.17134.345]
(c) 2018 Microsoft Corporation. All rights reserved.
C:\Users\potgi>
```

3. Type 'cd' followed by a space.

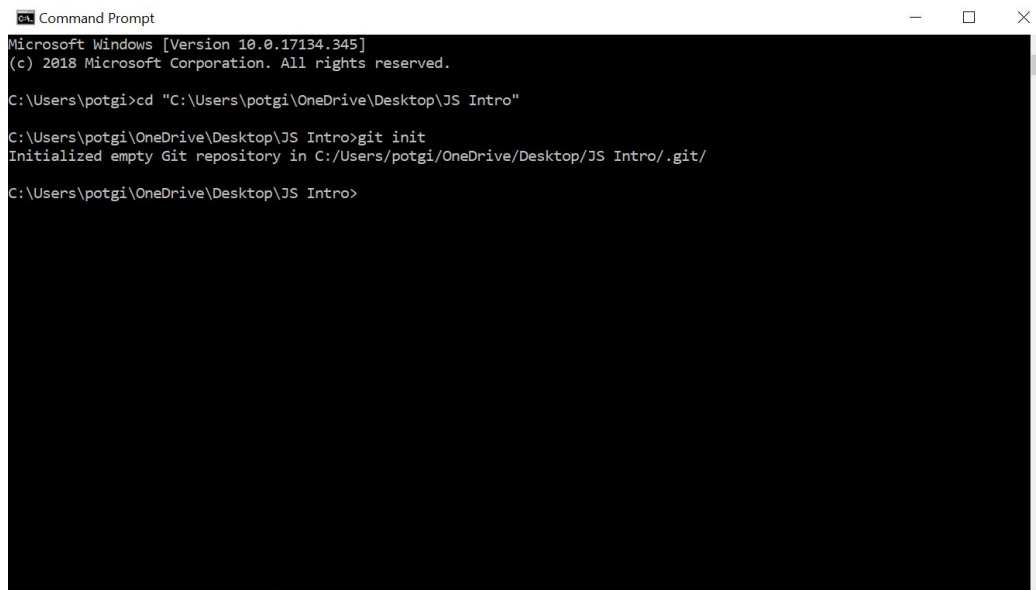


```
Command Prompt
Microsoft Windows [Version 10.0.17134.345]
(c) 2018 Microsoft Corporation. All rights reserved.
C:\Users\potgi>cd _
```

4. Introduce the project folder path (hint: Drag and drop your project folder into the command prompt/terminal) and press 'Enter'.



5. Type the command 'git init'. The word 'init' means *initialize*. Press 'Enter'.



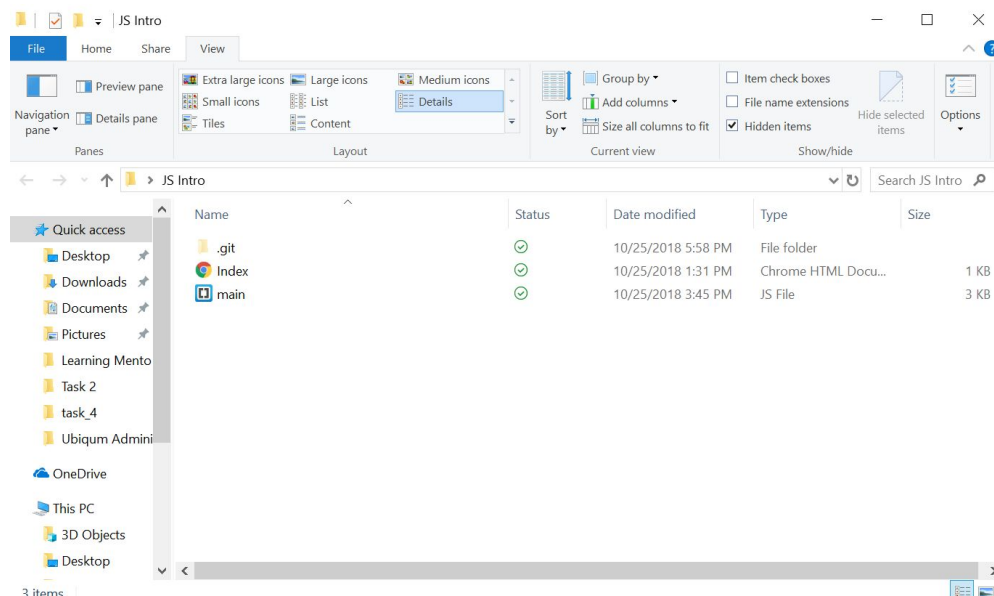
```
Microsoft Windows [Version 10.0.17134.345]
(c) 2018 Microsoft Corporation. All rights reserved.

C:\Users\potgi>cd "C:\Users\potgi\OneDrive\Desktop\JS Intro"

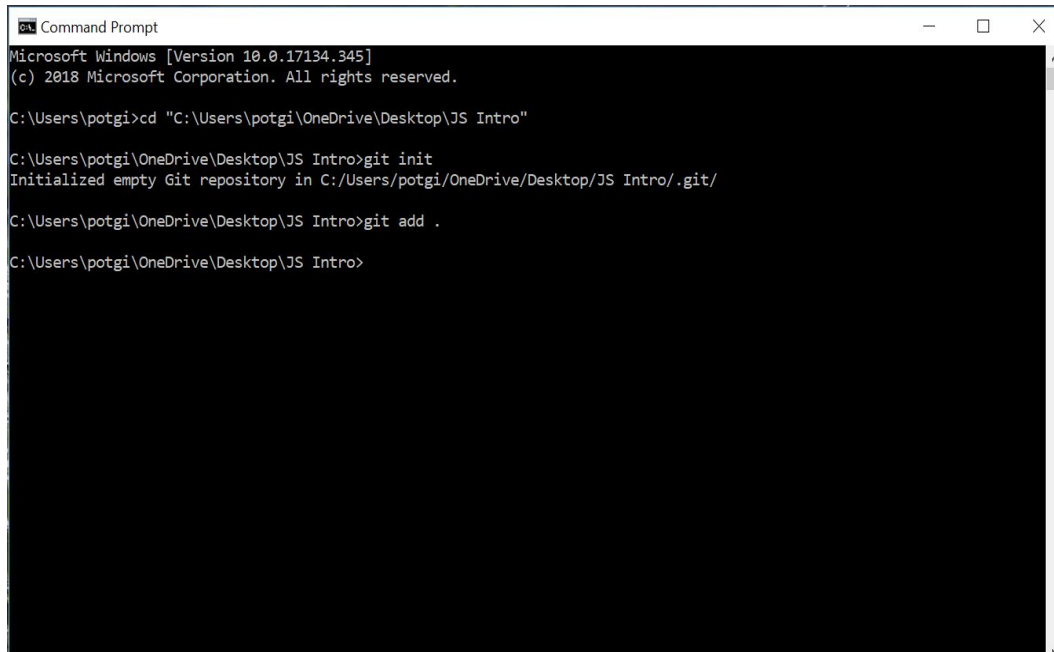
C:\Users\potgi\OneDrive\Desktop\JS Intro>git init
Initialized empty Git repository in C:/Users/potgi/OneDrive/Desktop/JS Intro/.git/

C:\Users\potgi\OneDrive\Desktop\JS Intro>
```

6. A new git repository has now been initialized. You can see a hidden '.git' folder appear inside your project folder.



7. We can now add a file or all the files to the staging area or temporary storage. Type 'git add *filename*' or 'git add .' ('git add .' adds ALL THE FILES to the staging area.) Press 'Enter'.



```
Command Prompt
Microsoft Windows [Version 10.0.17134.345]
(c) 2018 Microsoft Corporation. All rights reserved.

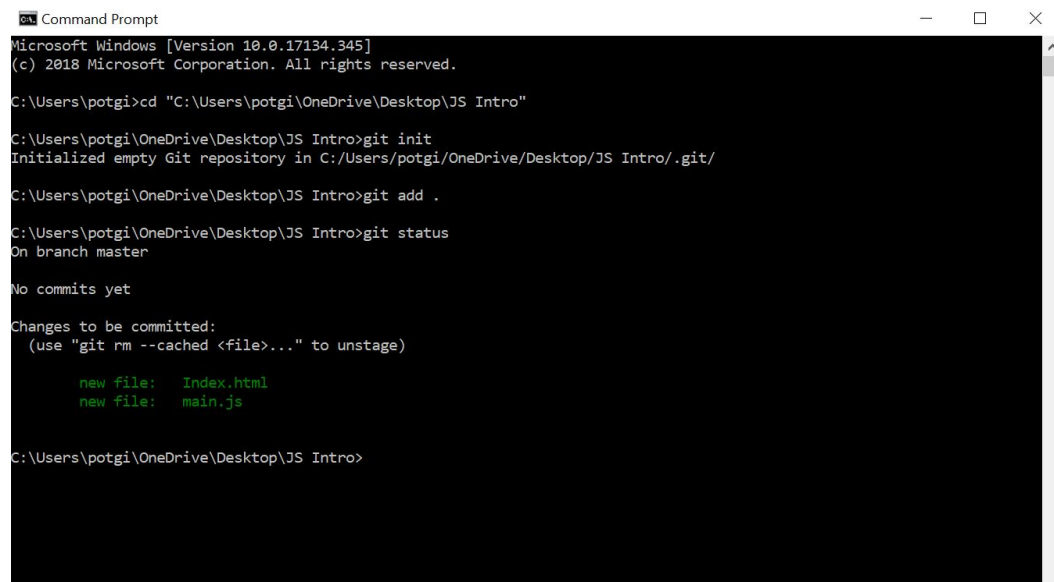
C:\Users\potgi>cd "C:\Users\potgi\OneDrive\Desktop\JS Intro"

C:\Users\potgi\OneDrive\Desktop\JS Intro>git init
Initialized empty Git repository in C:/Users/potgi/OneDrive/Desktop/JS Intro/.git/

C:\Users\potgi\OneDrive\Desktop\JS Intro>git add .

C:\Users\potgi\OneDrive\Desktop\JS Intro>
```

8. You can check the status of any changes made with 'git status'. It inspects the contents of the staging area/temporary storage.



```
Command Prompt
Microsoft Windows [Version 10.0.17134.345]
(c) 2018 Microsoft Corporation. All rights reserved.

C:\Users\potgi>cd "C:\Users\potgi\OneDrive\Desktop\JS Intro"

C:\Users\potgi\OneDrive\Desktop\JS Intro>git init
Initialized empty Git repository in C:/Users/potgi/OneDrive/Desktop/JS Intro/.git/

C:\Users\potgi\OneDrive\Desktop\JS Intro>git add .

C:\Users\potgi\OneDrive\Desktop\JS Intro>git status
On branch master

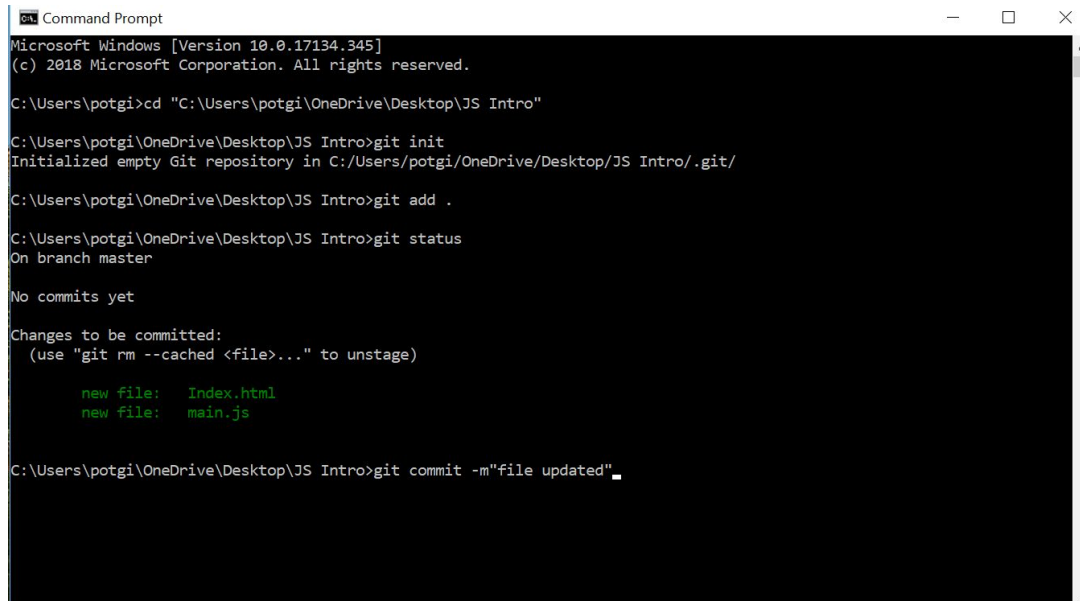
No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)

        new file:   index.html
        new file:   main.js

C:\Users\potgi\OneDrive\Desktop\JS Intro>
```

9. 'git commit' permanently stores changes from the staging area/temporary storage inside the git repository. Type 'git commit -m"*descriptive name*"' and press 'Enter'.



```
Command Prompt
Microsoft Windows [Version 10.0.17134.345]
(c) 2018 Microsoft Corporation. All rights reserved.

C:\Users\potgi>cd "C:\Users\potgi\OneDrive\Desktop\JS Intro"

C:\Users\potgi\OneDrive\Desktop\JS Intro>git init
Initialized empty Git repository in C:/Users/potgi/OneDrive/Desktop/JS Intro/.git/

C:\Users\potgi\OneDrive\Desktop\JS Intro>git add .

C:\Users\potgi\OneDrive\Desktop\JS Intro>git status
On branch master

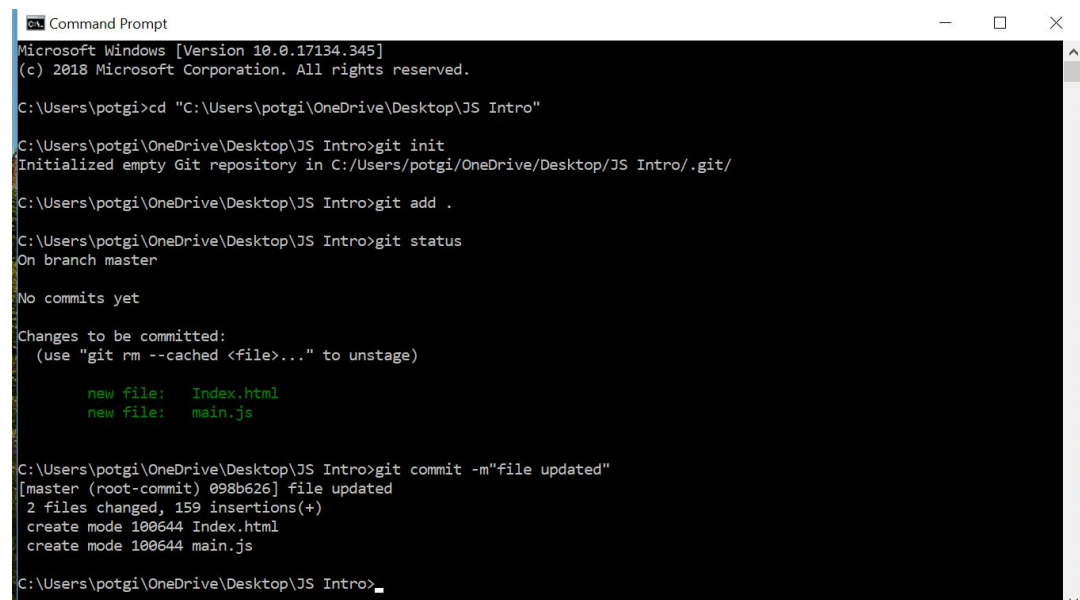
No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)

        new file:   Index.html
        new file:   main.js

C:\Users\potgi\OneDrive\Desktop\JS Intro>git commit -m"file updated"
```

10. Your file/files have now been committed to the permanent git repository.



```
Command Prompt
Microsoft Windows [Version 10.0.17134.345]
(c) 2018 Microsoft Corporation. All rights reserved.

C:\Users\potgi>cd "C:\Users\potgi\OneDrive\Desktop\JS Intro"

C:\Users\potgi\OneDrive\Desktop\JS Intro>git init
Initialized empty Git repository in C:/Users/potgi/OneDrive/Desktop/JS Intro/.git/

C:\Users\potgi\OneDrive\Desktop\JS Intro>git add .

C:\Users\potgi\OneDrive\Desktop\JS Intro>git status
On branch master

No commits yet

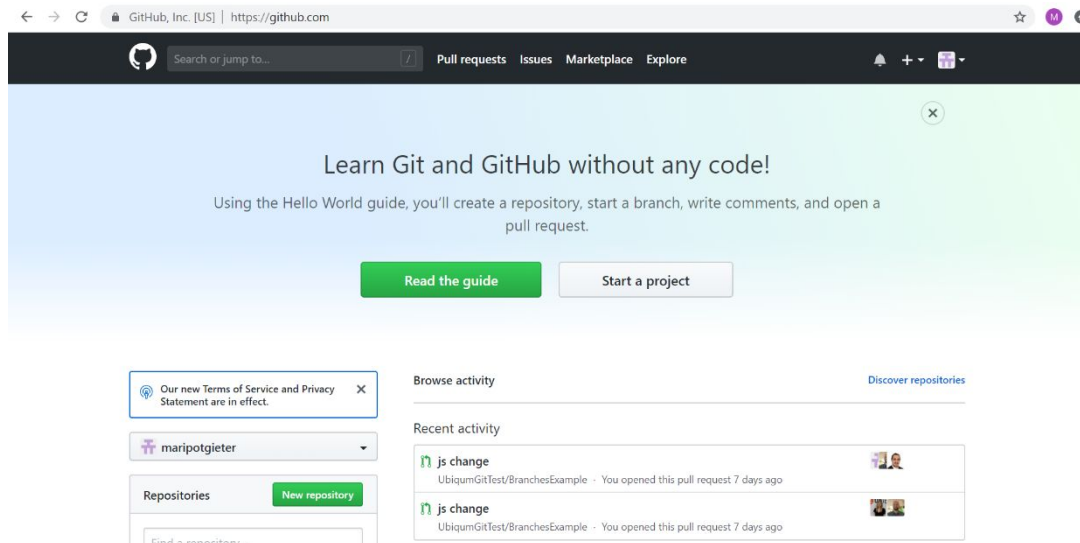
Changes to be committed:
  (use "git rm --cached <file>..." to unstage)

        new file:   Index.html
        new file:   main.js

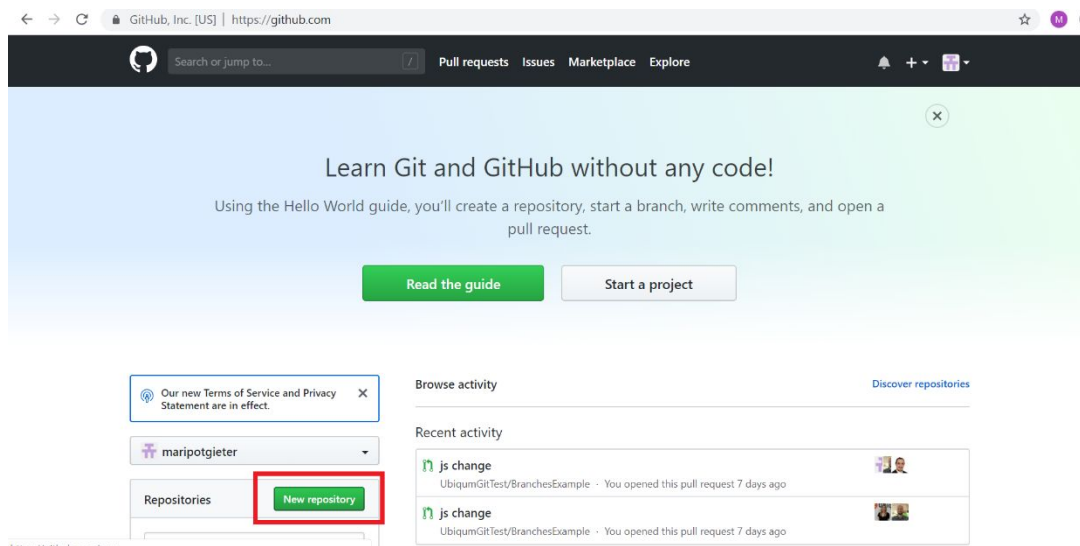
C:\Users\potgi\OneDrive\Desktop\JS Intro>git commit -m"file updated"
[master (root-commit) 098b626] file updated
 2 files changed, 159 insertions(+)
 create mode 100644 Index.html
 create mode 100644 main.js

C:\Users\potgi\OneDrive\Desktop\JS Intro>
```

11. The next step would be to store all the files in the 'cloud'. Log into your GitHub account.



12. Click on 'New Repository'.



13. Give your repository a name – something descriptive. Feel free to add a description.

← → ↻ GitHub, Inc. [US] | https://github.com/new

Search or jump to... Pull requests Issues Marketplace Explore

Create a new repository

A repository contains all the files for your project, including the revision history.

Owner: maripotgieter / Repository name: mobile-web-app ✓

Great repository names are short and memorable. Need inspiration? How about fluffy-winner.

Description (optional)

☒ Public
Anyone can see this repository. You choose who can commit.

☐ Private
You choose who can see and commit to this repository.

☒ Initialize this repository with a README
This will let you immediately clone the repository to your computer. Skip this step if you're importing an existing repository.

Add .gitignore: None Add a license: None ⓘ

14. Click on 'Create repository'. (Important: Make sure that 'Initialize this repository with a README' is unchecked)

← → ↻ GitHub, Inc. [US] | https://github.com/new

maripotgieter / mobile-web-app ✓

Great repository names are short and memorable. Need inspiration? How about fluffy-winner.

Description (optional)

☒ Public
Anyone can see this repository. You choose who can commit.

☐ Private
You choose who can see and commit to this repository.

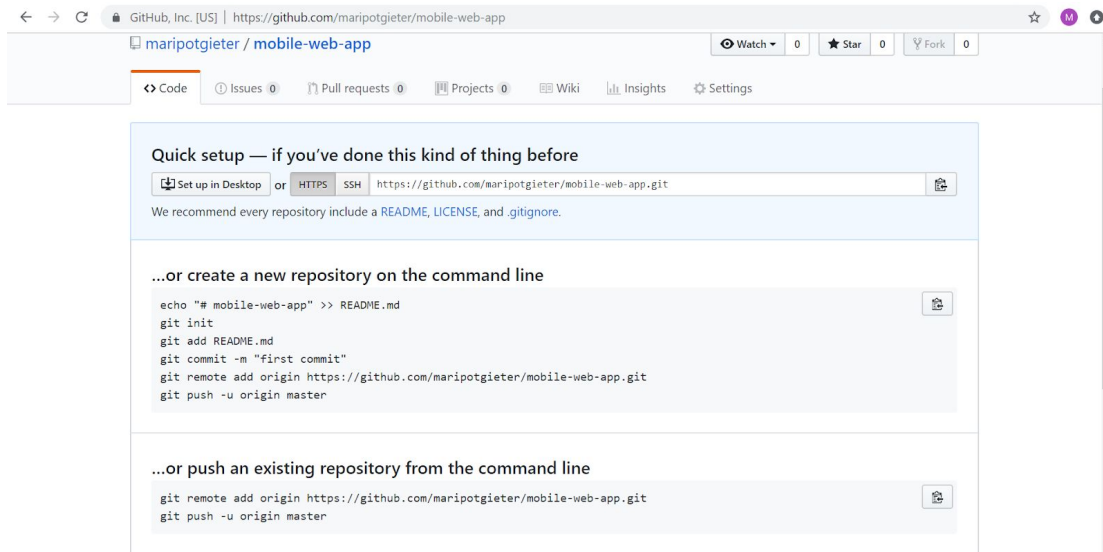
☐ Initialize this repository with a README
This will let you immediately clone the repository to your computer. Skip this step if you're importing an existing repository.

Add .gitignore: None Add a license: None ⓘ

Create repository

© 2018 GitHub, Inc. Terms Privacy Security Status Help Contact GitHub Pricing API Training Blog About

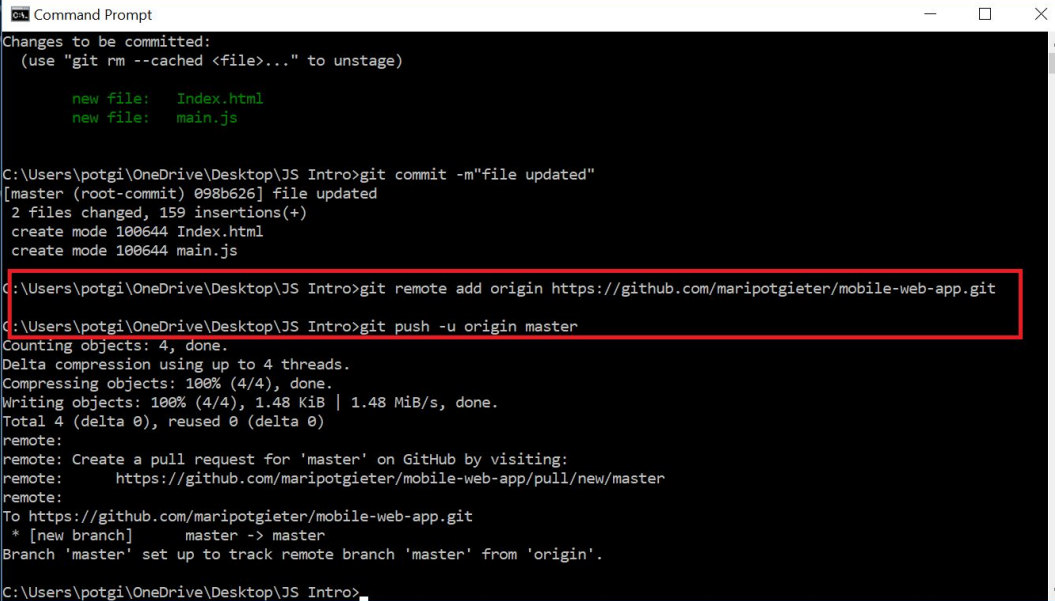
15. It will take you to the following page:



16. We already have an existing git repository and therefore will only need to copy the following two lines:



17. Paste the copied lines into your command prompt or terminal. Press 'Enter'.



```
Command Prompt
Changes to be committed:
  (use "git rm --cached <file>..." to unstage)

        new file:   Index.html
        new file:   main.js

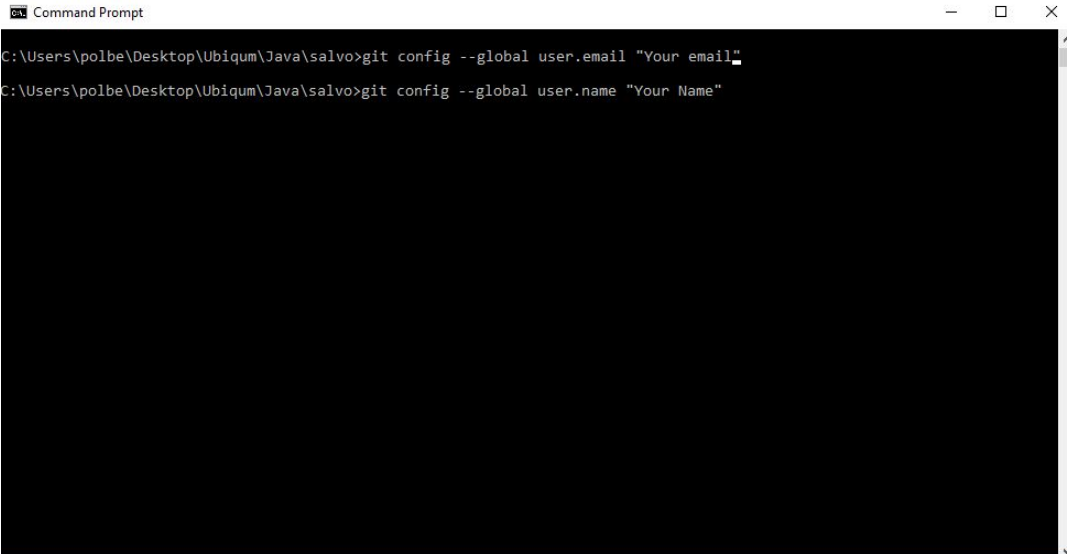
C:\Users\potgi\OneDrive\Desktop\JS Intro>git commit -m"file updated"
[master (root-commit) 098b626] file updated
2 files changed, 159 insertions(+)
create mode 100644 Index.html
create mode 100644 main.js

C:\Users\potgi\OneDrive\Desktop\JS Intro>git remote add origin https://github.com/maripotgieter/mobile-web-app.git

C:\Users\potgi\OneDrive\Desktop\JS Intro>git push -u origin master
Counting objects: 4, done.
Delta compression using up to 4 threads.
Compressing objects: 100% (4/4), done.
Writing objects: 100% (4/4), 1.48 KiB | 1.48 MiB/s, done.
Total 4 (delta 0), reused 0 (delta 0)
remote:
remote: Create a pull request for 'master' on GitHub by visiting:
remote:   https://github.com/maripotgieter/mobile-web-app/pull/new/master
remote:
To https://github.com/maripotgieter/mobile-web-app.git
 * [new branch]      master -> master
Branch 'master' set up to track remote branch 'master' from 'origin'.

C:\Users\potgi\OneDrive\Desktop\JS Intro>
```

18. The first time that you connect your local repository with a remote repository, Git will ask you to register. In order to do that just copy the two lines, one by one, that Git provides and type your username and your email.

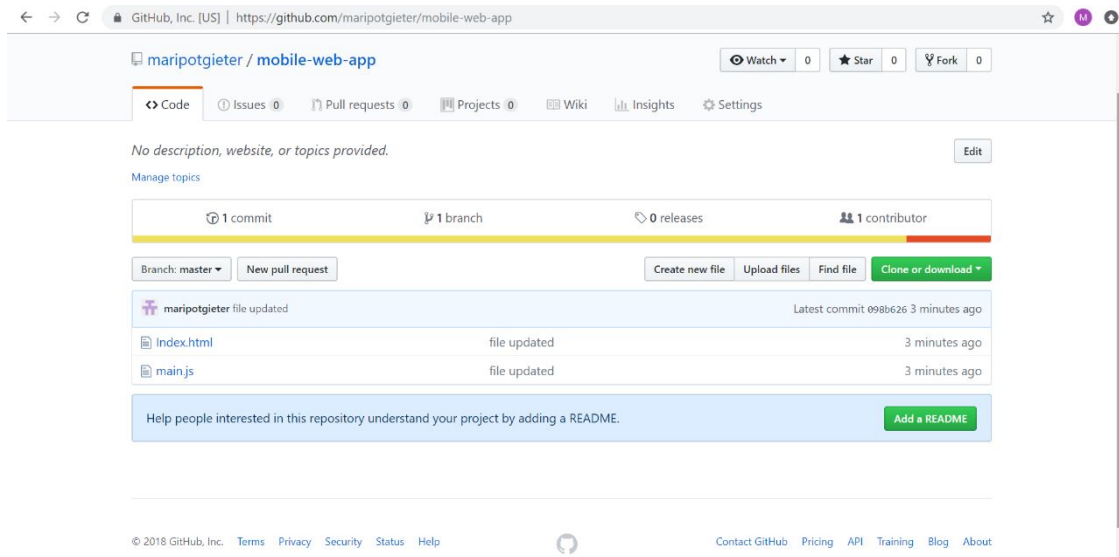


```
Command Prompt

C:\Users\polbe\Desktop\Ubiquum\Java\salvo>git config --global user.email "Your email"

C:\Users\polbe\Desktop\Ubiquum\Java\salvo>git config --global user.name "Your Name"
```

19. When you return to your GitHub page and refresh/reload the page, you should see that the commits have been successfully uploaded to GitHub.



IMPORTANT GIT COMMANDS TO REMEMBER:

- **'git init'** – it initializes an empty git repository in your project folder. You only do this ONCE for a project, otherwise you will override the previous repository and lose all your stored commits.
- **'git status'** – you can check the changes made to the staging area.
- **'git add filename'** or **'git add .'** – adds a file or all files to staging area.
- **'git commit -m"descriptive name"'** – permanently stores changes from the staging area inside the git repository.
- **'git log'** – you can view all the commits made by using this command.
- **'git push'** – this will push your branch up to the remote/GitHub repository.