



Deep Thoughts

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ML/DS Quest

Explore, Learn & Code



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Installation- For Mac OS X & Windows

Installation on Mac & Windows

1. Install all the applications in Administrator mode in both Mac and Windows.
2. Create a GitHub account.
3. Go to the website: <https://github.com/>
4. Go to the website: <https://git-scm.com>
5. Download and install the Gitbash tool for Windows only
6. If the download does not start automatically, then click on the manual download link to download Git.
7. To download Atom, go to the website: <https://atom.io>
8. Click on the 'Download' button to download the latest version of the text editor.



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Creating a Workspace



Creating a Workspace

We will create a workspace to add our code in a central location.

1. Create a new folder called <Products/Projects> (ex: Users/Products) in the home directory of your system. Then create a sub-folder under this folder with <Project/Product Folder> (ex: Users/Products/dpts-cms).
2. Open Atom. Close all the tabs except the "Untitled" tab.
3. Go to File -> Add Project Folder -> Mac HD/This PC -> Users -> Your home directory -> Products -> dpts-cms. Choose 'Open'.
4. Your project folder is now added to the Atom editor.



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Creating a Git project

Creating a Git project



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NOTE: ALL the git commands will be executed from the local working directory (ex: 'dpts-cms').

Before we create a Git repository, we need to initialise the project in Git. We can do that directly from the terminal in Mac or the Gitbash command screen in Windows. Type the following command:

```
ls  
cd Products/dpts-cms  
git init
```

This will initialise the project in Git.

Go back to Atom editor.

Close it and reload it again. Check now to see if the projects changed to Git repository. You can do that by checking the icon near the projects folder.

Creating a Git project (Contd)



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Set an email address in Git. Set up your commit email address by typing the following command in the Terminal/Gitbash

```
git config --global user.email <"youremailaddress">
```

We have to commit the project to Git.

Go to the terminal or Git bash window. Ensure that you are in the current working directory which is 'dpts-cms'.

Create the relevant files/folders that are part of the product/project

(ex: *.py, *.kv, *.db, *.md)

Type the following command

```
git add .
```

```
git commit -am <"Type your comment">
```


Pushing to GitHub

To push the source code to GitHub, we first need to create a public and private key path.

Go to terminal or Git bash window.

Type the following command:

```
ssh-keygen -t rsa -b 4096 -C "your email id"
```

If prompted for file name and pass phrase leave it empty and press <Enter>

Go to the terminal/Gitbash and type the following command:

```
cat ~/.ssh/id_rsa.pub
```

This will display the public key in the terminal/Git bash.

Copy the key. Copy from <ssh-rsa> until <youremailaddress>

Go to: <https://github.com>

Click on your profile on the top right and go to 'Settings'. Go to the tab 'SSH and GPG Keys'. Click on it.

Click on 'New SSH Key'.

Paste the copied key in the box provided.

Give a title to the key.

Then click on 'Add SSH Key'.

Pushing to GitHub (Contd)

- Click on the cat icon on the top left to go to the homepage of your Github profile.
- Click on the button titled 'New'.
- This will take you to the "Create a new repository" page
- Name the repository: (ex: 'dpts-cms').
- Description : (ex: 'Deep Thoughts Standalone Clinic Management System').
- Select the radio button titled "Private"
- Click on 'Create repository'.
- The next step is to push the existing repository from the command line.

Pushing to GitHub (Contd)



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- Go to the terminal or git bash.
- In our case, we have already created a repository and we will import that repository. Copy and paste the following command from the Github webpage into the terminal or git bash: `git remote add origin <yourGitHublink>` Press enter.
- This configures our project to add a new remote origin with the path of our remote to the Git project.
- Copy and paste the following command in the Github webpage into the terminal or Git bash: `git push -u origin master` Press enter.
- If prompted, connect to GitHub here.
- Then go to GitHub and refresh and reload the page to check if it displays the files created in the local machine.
- If it does, then the Git push was successful.

Pushing to GitHub (Contd)



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In case you run into any errors such as "Repository not found" or "Permission denied" while pushing to Github in Step 11, then try the following commands in the terminal or Gitbash:

```
git remote rm origin
```

```
git remote add origin https://USERNAME:PASSWORD@github.com/username/reponame.git
```

- If your Github password has "@", replace it with "%40" in the password.

Git usage commands



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- `git stash` (to be used to stop version checking from the Github)
- `git pull` (Refer to options if needed)
- `git add .` (Adds the file changes/removals to the local git repo)
- `git commit -am <"Comment">` (Commit changes to the local repo)
- `git push -u origin master` (Pushes the changes to Github)



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End of Section 3.6