

Design Studio: 4.032 / 4.033 Information and Visualization

PROGRAMMING PART

Irene de la Torre – Arenas

Email: delatorr@mit.edu

Office Hours: Mondays, 5:00 – 7:00 at CDC

Goal of the class

Beyond acquiring technological skills, learn fundamentals concepts of information design and data visualization and develop the strategies to communicate different types of information and data.

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Synthesize your design skills in a data visualization project

At the end of the course, you should be able to plan, conceptualize, develop and refine a data visualization project of any type.

Remember...

The goal of information design and, therefore, data visualization is to explain information. Sometimes it can try to persuade. But it will never try to obscure.

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The goal of information design and, therefore, data visualization is to explain information. Sometimes it can try to persuade. But it will never try to obscure.

And if it's doing it. Then, it's another thing...

Project 1 — Visualizing time

Sketch and develop 3 displays of time

Project 1 — Visualizing time

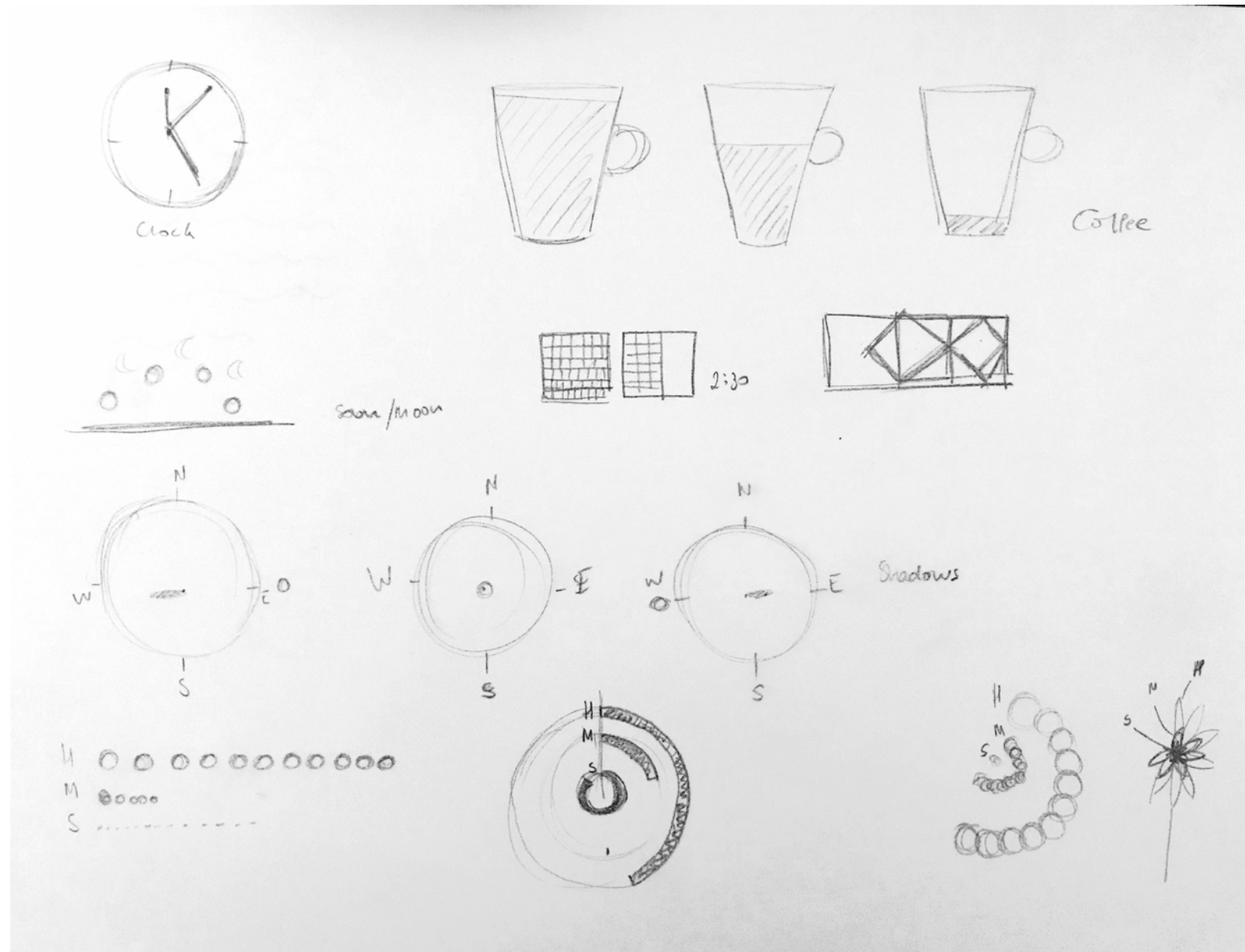
Sketch and develop 3 displays of time

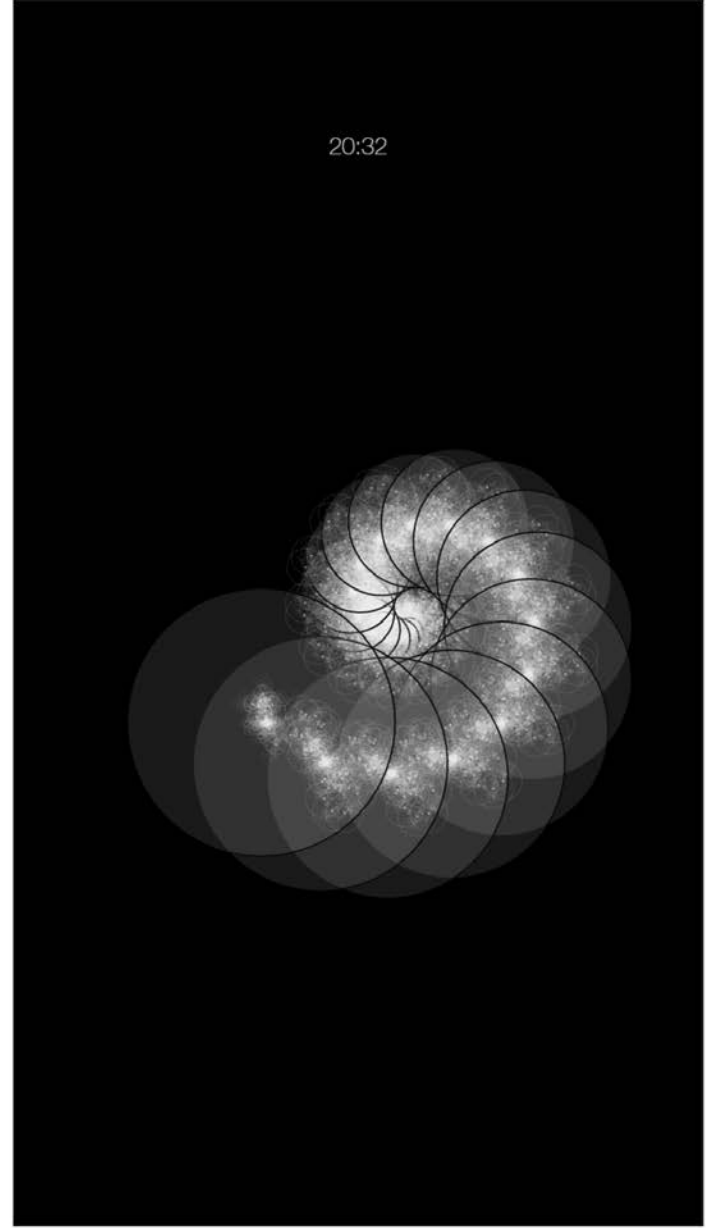
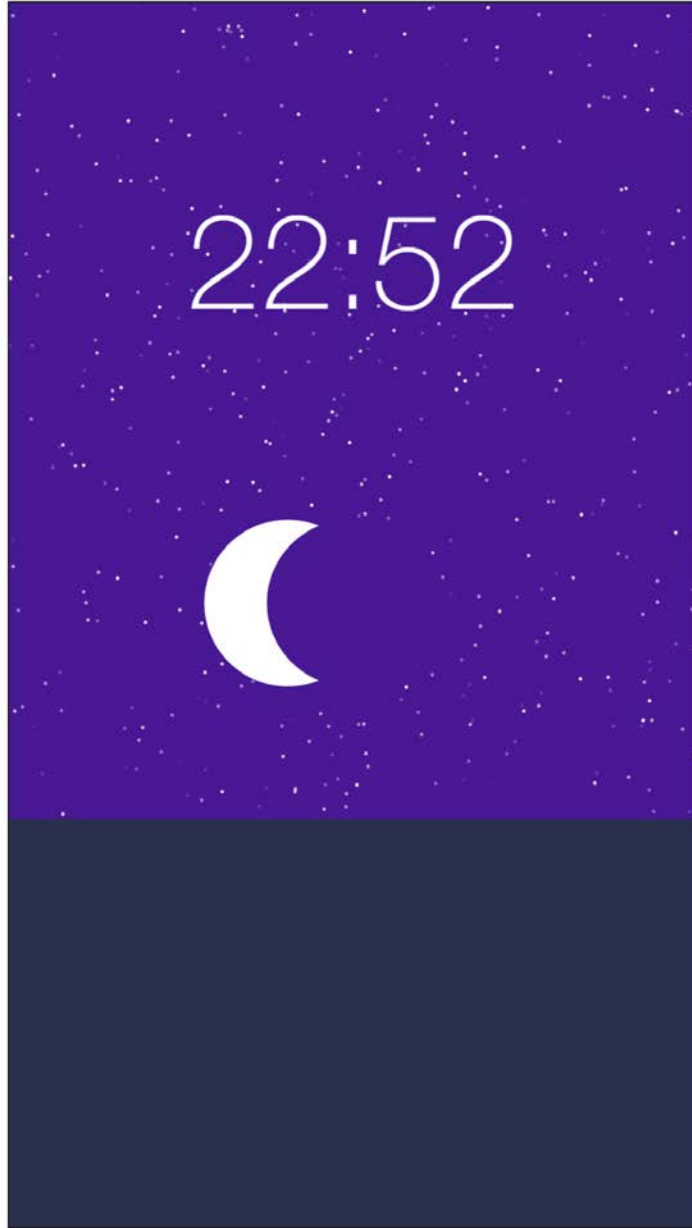
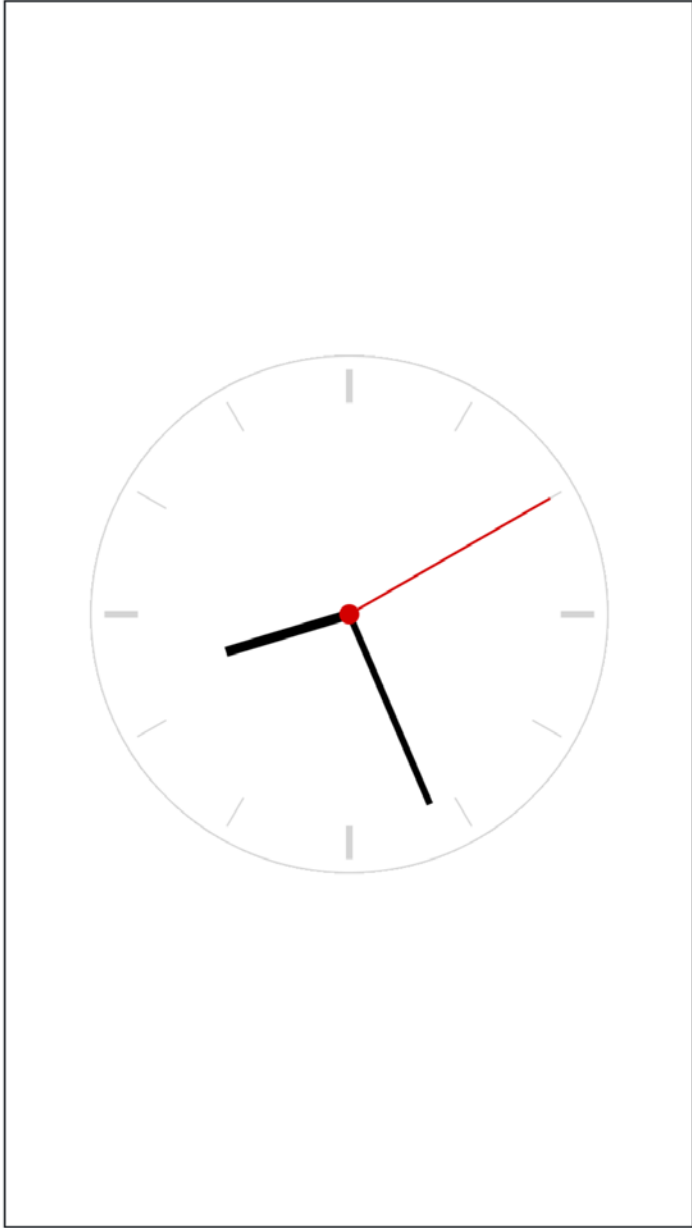
PROCESS

Work individually.

Create twenty sketches on paper, then select 3 to pursue.

Draw them with JavaScript.





Project 1 — Visualizing time

REQUIREMENTS

- Download and install Git, and WebStorm / Sublime Text / Brackets

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- Use the GitHub repository [MIT-Information-Design-and-Visualization](https://github.com/mit-csapp-design-visualization). Clone the files on your own computer and work with the files.

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- Complete exercise by uploading it on GitHub by Feb 14

Project 1 — Visualizing time

REQUIREMENTS

- Use HTML, CSS and JavaScript. You can choose how to draw the sketches: using canvas, d3.js, P5.js, etc.

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REQUIREMENTS

- Use HTML, CSS and JavaScript. You can choose how to draw the sketches: using canvas, d3.js, P5.js, etc.
- The visualization should be optimized for viewing on a mobile device: approximately 414 x 736 pixels.

Setting up GitHub

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<https://github.com/irenedelatorre/MIT-Design-Studio-Information-and-Visualization>

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You will manage all your repositories and files through this dashboard.
3. Go to the class' repository
<https://github.com/irenedelatorre/MIT-Design-Studio-Information-and-Visualization>
4. Fork the repository.
It will copy the files in your own profile



This repository

Search

Pull requests

Issues

Marketplace

Explore



apache / **hadoop**

Watch

812

Star

5,607

Fork

3,931

Fork your own copy of apache/hadoop to your account

Code

Pull requests 151

Projects 0

Insights

Mirror of Apache Hadoop

17,783 commits

219 branches

273 releases

118 contributors

Apache-2.0

Branch: trunk

New pull request

Create new file

Upload files

Find file

Clone or download

| | | |
|--|--|-----------------------------------|
| Yongjun Zhang | HDFS-13115. In getNumUnderConstructionBlocks(), ignore the inodelds f... | Latest commit f491f71 4 hours ago |
| dev-support | HADOOP-15058. create-release site build outputs dummy shaded jars due... | 2 months ago |
| hadoop-assemblies | YARN-7190. Ensure only NM classpath in 2.x gets TSv2 related hbase ja... | 2 months ago |
| hadoop-build-tools | YARN-7039. Fix javac and javadoc errors in YARN-3926 branch. (Sunil G... | 5 months ago |
| hadoop-client-modules | HADOOP-13514. Upgrade maven surefire plugin to 2.20.1 | 3 months ago |
| hadoop-cloud-storage-project | HADOOP-14997. Add hadoop-aliyun as dependency of hadoop-cloud-storage... | 3 months ago |
| hadoop-common-project | HDFS-12990. Change default NameNode RPC port back to 8020. Contribute... | a day ago |
| hadoop-dist | Preparing for 3.1.0 development | 5 months ago |
| hadoop-hdfs-project | HDFS-13115. In getNumUnderConstructionBlocks(), ignore the inodelds f... | 4 hours ago |
| hadoop-mapreduce-project | HDFS-12990. Change default NameNode RPC port back to 8020. Contribute... | a day ago |
| hadoop-maven-plugins | HADOOP-14985. Remove subversion related code from VersionInfoMojo.jav... | 2 months ago |
| hadoop-minicluster | Preparing for 3.1.0 development | 5 months ago |
| hadoop-project-dist | Update CHANGES, RELEASENOTES, idiff for 3.0.0 release | 2 months ago |

https://github.com/apache/hadoop#fork-destination-box

Setting up GitHub

1. Go to GitHub Desktop, log in with your user, and
 - Go to [File - Clone Repository](#)
 - [Search for yourUserName/MIT-Design-Studio-Information-and-Visualization](#)
It will copy all the files of your online repository to your computer

ChangesHistory

0 changed files

Summary

Description

Commit to gh-pages

Clone a repository

GitHub.comEnterpriseURL

Filter

Your repositories

irenedelatorre/311calls_d3

irenedelatorre/6900-assignment-2-a

irenedelatorre/6900-assignment-2-x

irenedelatorre/6900-week-10

irenedelatorre/6900-week-2

Local path

C:\Users\PC Irene\Documents\MIT\Information design and \

Choose...

CloneCancel

No local changes
Would you like to [open this repository](#) in Explorer?

Setting up GitHub

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 - [Search for yourUserName/MIT-Design-Studio-Information-and-Visualization](#)
It will copy all the files of your online repository to your computer
2. Once you have worked with the files, and modified them, GitHub Desktop will keep track of your changes. In order for you to save them in the online repository, you need to [commit](#) those changes.

Changes

History

2 changed files

.idea\workspace.xml

index.html

.idea\workspace.xml

index.html

@@ -2,7 +2,7 @@

2

2

<project version="4">

3

3

<component name="ChangeListManager">

4

4

<list default="true" id="514f55db-d98e-43e2-9f16-cba590890d12" name="Default" comment="">

5

-

<change type="MODIFICATION" beforePath="\$PROJECT_DIR\$/.idea/workspace.xml" afterPath="\$PROJECT_DIR\$/.idea/workspace.xml" />

5

+

<change type="MODIFICATION" beforePath="\$PROJECT_DIR\$/index.html" afterPath="\$PROJECT_DIR\$/index.html" />

6

6

</list>

7

7

<ignored path="\$PROJECT_DIR\$/.tmp/" />

8

8

<ignored path="\$PROJECT_DIR\$/temp/" />

@@ -30,20 +30,20 @@

30

30

</provider>

31

31

</entry>

32

32

</file>

33

-

<file leaf-file-name="index.html" pinned="false" current-in-tab="false">

33

+

<file leaf-file-name="index.html" pinned="false" current-in-tab="true">

34

34

<entry file="file://\$PROJECT_DIR\$/index.html">

35

35

<provider selected="true" editor-type-id="text-editor">

36

-

<state relative-caret-position="1160">

37

-

<caret line="29" column="12" lean-forward="false" selection-start-line="29" selection-start-column="12" selection-end-line="29" selection-end-column="12" />

36

+

<state relative-caret-position="1040">

37

+

<caret line="26" column="46" lean-forward="false" selection-start-line="26" selection-start-column="46" selection-end-line="26" selection-end-column="46" />

38

38

</folding />

39

39

</state>

40

40

</provider>

41

41

</entry>

42

42

</file>

43

-

<file leaf-file-name="style.css" pinned="false" current-in-tab="true">

43

+

<file leaf-file-name="style.css" pinned="false" current-in-tab="false">

44

44

<entry file="file://\$PROJECT_DIR\$/style.css">

45

45

<provider selected="true" editor-type-id="text-editor">

46

-

<state relative-caret-position="683">

46

+

<state relative-caret-position="760">

47

47

<caret line="19" column="19" lean-forward="false" selection-start-line="19" selection-start-column="19" selection-end-line="19" selection-end-column="19" />

48

48

</folding />

49

49

</state>

Added link for canvas tutorial

Description

1+

Commit to gh-pages

Setting up GitHub

1. However, with committing the changes is not enough. After that, you will need to [push](#) the changes. Only then the changes will appear in your online repository.

No local changes

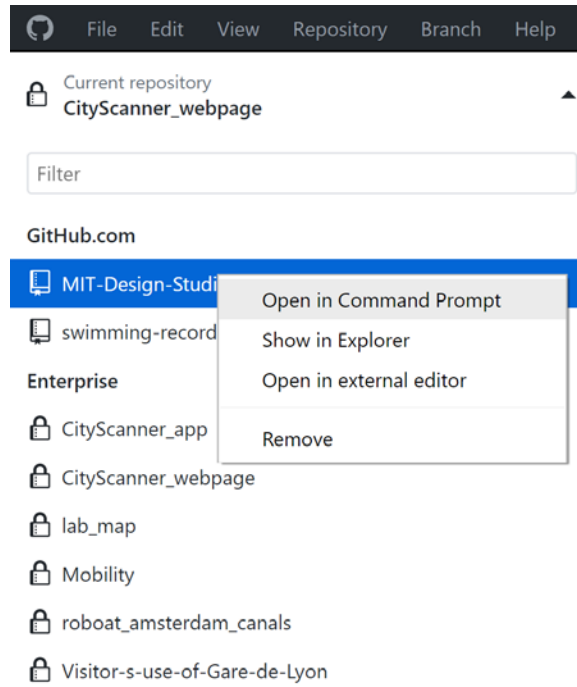
Would you like to [open this repository](#) in Explorer?

Setting up GitHub

1. However, with committing the changes is not enough. After that, you will need to [push](#) the changes. Only then the changes will appear in your online repository.
2. GitHub also gives you the possibility of creating [branches](#), where the code might be different – imagine that you want to test some code without losing the original one. Later, you can merge those branches together.

Updating your repository from the original fork

1. You can do this either by installing [Git Bash](#) or by right clicking your repository and selecting [Open in Command Prompt](#)



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Updating your repository from the original fork

1. You can do this either by installing [Git Bash](#) or by right clicking your repository and selecting [Open in Command Prompt](#)
2. Change the current working directory to your local project.
3. Fetch the branches and their respective commits from the upstream repository. Commits to master will be stored in a local branch, upstream/master.

Write `git fetch upstream`

```
$ git fetch upstream
remote: Counting objects: 75, done.
remote: Compressing objects: 100% (53/53), done.
remote: Total 62 (delta 27), reused 44 (delta 9)
Unpacking objects: 100% (62/62), done.
From https://github.com/ORIGINAL_OWNER/ORIGINAL_REPOSITORY
* [new branch]      master    -> upstream/master
```

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2. Change the current working directory to your local project.
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Write `git fetch upstream`

4. Check out your fork's local master branch (or the branch that you want to update).
Write `git checkout master`

```
$ git checkout master  
Switched to branch 'master'
```

Updating your repository from the original fork

1. **Merge** the changes from upstream/master into your local master branch. This brings your fork's master branch into sync with the upstream repository, without losing your local changes.
Write `git merge upstream/master`

```
$ git merge upstream/master
Updating a422352..5fdff0f
Fast-forward
 README                |    9 -----
 README.md             |    7 ++++++
2 files changed, 7 insertions(+), 9 deletions(-)
delete mode 100644 README
create mode 100644 README.md
```

Updating your repository from the original fork

1. **Merge** the changes from upstream/master into your local master branch. This brings your fork's master branch into sync with the upstream repository, without losing your local changes.
Write `git merge upstream/master`
2. If your local branch didn't have any unique commits (to be push), Git will instead perform a "fast-forward".

```
$ git merge upstream/master
Updating 34e91da..16c56ad
Fast-forward
 README.md          | 5 +++--
1 file changed, 3 insertions(+), 2 deletions(-)
```


Updating your repository from the original fork

1. [Merge](#) the changes from upstream/master into your local master branch. This brings your fork's master branch into sync with the upstream repository, without losing your local changes.
Write `git merge upstream/master`
2. If your local branch didn't have any unique commits (to be push), Git will instead perform a "fast-forward".
3. Syncing your fork only updates your local copy of the repository. To update your fork on GitHub, you must [push your changes](#).