

Module: R0: The Missing Semester
Section: Version Control (Git) Task: 02

Task:

Clone the repository for the class website. Submit a PDF with answers to the following questions:

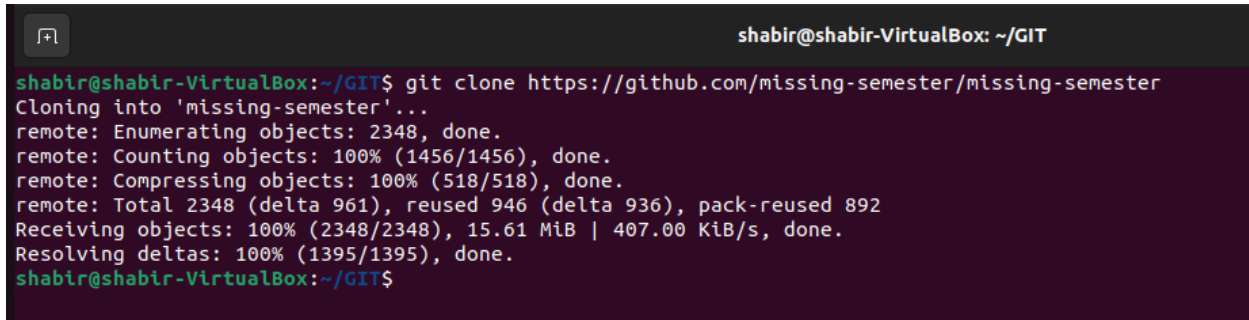
1. Explore the version history by visualizing it as a graph. Add a screenshot of the graph in the PDF.
2. Who was the last person to modify README.md? (Hint: use git log with an argument). Add screenshot in the PDF.
3. What was the commit message associated with the last modification to the collections: line of _config.yml? (Hint: use git blame and git show). Add screenshot in the PDF.

Explanation:

To clone the repository of the class website, using the command,

git clone <https://github.com/missing-semester/missing-semester>

The terminal output is shown below,

A terminal window with a dark background. The prompt is 'shabir@shabir-VirtualBox: ~/GIT'. The command 'git clone https://github.com/missing-semester/missing-semester' has been executed. The output shows the cloning progress: 'Cloning into 'missing-semester'...', 'remote: Enumerating objects: 2348, done.', 'remote: Counting objects: 100% (1456/1456), done.', 'remote: Compressing objects: 100% (518/518), done.', 'remote: Total 2348 (delta 961), reused 946 (delta 936), pack-reused 892', 'Receiving objects: 100% (2348/2348), 15.61 MiB | 407.00 KiB/s, done.', and 'Resolving deltas: 100% (1395/1395), done.'. The prompt returns to 'shabir@shabir-VirtualBox: ~/GIT\$'.

```
shabir@shabir-VirtualBox: ~/GIT$ git clone https://github.com/missing-semester/missing-semester
Cloning into 'missing-semester'...
remote: Enumerating objects: 2348, done.
remote: Counting objects: 100% (1456/1456), done.
remote: Compressing objects: 100% (518/518), done.
remote: Total 2348 (delta 961), reused 946 (delta 936), pack-reused 892
Receiving objects: 100% (2348/2348), 15.61 MiB | 407.00 KiB/s, done.
Resolving deltas: 100% (1395/1395), done.
shabir@shabir-VirtualBox: ~/GIT$
```

To visualize the graph of the version history of the missing semester remote repository, I used the command,

git log --all --graph --decorate --oneline

The terminal output is shown below,

```
shabir@shabir-VirtualBox: ~/GIT/missing-semester
shabir@shabir-VirtualBox:~/GIT/missing-semester$ git log --all --graph --decorate --oneline
* b50af6a (HEAD -> master, origin/master, origin/HEAD) Update link
* d38f585 Merge branch 'alexandr-gnrk/update-jupyter-binding'
| \
| * f600f32 Update Vim binding for Jupyter
| /
| /
* 2253e4e Switch recommended app to Rectangle
* 18ee93c Ignore Reddit URLs when checking links
* 2ab1b78 Merge branch 'alkock/master'
| \
| * 98d90f8 added german translation
| /
| /
* bd75a78 Fix broken links
* 7330a25 Merge branch 'fipachu/git-aliases'
| \
| * 6fc734b Add more useful overview of Git aliases
| /
| /
* f45234f Merge branch 'Nikitaz1410/patch-2'
| \
| * d2a8a4d Typos corrected in program-introspection.md
* | 4a74a0e Merge branch 'Nikitaz1410/patch-1'
| /
| /
| * c589f46 Typo corrected Line 135
| /
| * be41e2d Merge branch 'furkanakkurt1335/patch-1'
| \
| * 20a9fc7 Fix typo ; Update shell-tools.md
| /
* 66b2878 Fix escaping
* d8990e1 fix typo/correct grammar (#239)
```

To check the last person who made the modification in the README.md file, I used the command,
git log README.md

The terminal output is shown below,

```
shabir@shabir-VirtualBox: ~/GIT/missing-semester$ git log README.md
commit 9ef9db72211fefc00caaa7133b35dda4a99acccf
Author: Anish Athalye <me@anishathalye.com>
Date: Thu Oct 27 20:28:41 2022 -0400

    Add Docker setup for easier development

commit ad1ba94203e741723f8012467c2c861b34ad77c8
Author: Sebastian Kupek <sebastian.kupek@uibk.ac.at>
Date: Wed Oct 26 18:15:19 2022 +0200

    FIX: Spelling mistakes, 'content' should be plural and verb adjusted accordingly

commit 8010724516adc968765e8efd14991f262f0d0423
Author: Anish Athalye <me@anishathalye.com>
Date: Tue Jul 27 08:29:08 2021 -0400

    Separate build and links status

commit 79d143ff650d59a2d69961b2c68d697096c0e8f4
Author: Anish Athalye <me@anishathalye.com>
Date: Sat Dec 26 09:42:23 2020 -0500

    Switch to proof-html action

commit 958e0a4b3a0fccc96980114b4d106f9ed4df08ed
Author: Anish Athalye <me@anishathalye.com>
Date: Fri Dec 18 16:18:16 2020 -0500

    Disable CI

    Checking 500+ external links is a little bit too fragile; we get lots of
```

The last person who made changes in README.md file was,

```
shabir@shabir-VirtualBox:~/GIT/missing-semester$ git log README.md
commit 9ef9db72211fefc00caaa7133b35dda4a99acccf
Author: Anish Athalye <me@anishathalye.com>
Date: Thu Oct 27 20:28:41 2022 -0400

    Add Docker setup for easier development
```

To check the commit message associated with the last modification to the collections: line of `_config.yml`, I used the command,

`git blame _config.yml`

Then, note the associated commit hash with the line. The terminal output is shown below,

```

shabir@shabir-VirtualBox: ~/GIT/missing-semester
shabir@shabir-VirtualBox:~/GIT/missing-semester$ git blame _config.yml
^112ddbd (Anish Athalye 2019-01-04 22:00:31 -0500 1) # Setup
ac838248 (Anish Athalye 2023-02-19 20:01:43 -0500 2) title: 'Missing Semester'
d4412ead (Anish Athalye 2019-12-01 21:26:19 -0500 3) url: https://missing.csail.mit.edu
^112ddbd (Anish Athalye 2019-01-04 22:00:31 -0500 4)
^112ddbd (Anish Athalye 2019-01-04 22:00:31 -0500 5) # Settings
^112ddbd (Anish Athalye 2019-01-04 22:00:31 -0500 6) markdown: kramdown
^112ddbd (Anish Athalye 2019-01-04 22:00:31 -0500 7) kramdown:
^112ddbd (Anish Athalye 2019-01-04 22:00:31 -0500 8)   input: GFM
^112ddbd (Anish Athalye 2019-01-04 22:00:31 -0500 9)   hard_wrap: false
^112ddbd (Anish Athalye 2019-01-04 22:00:31 -0500 10) highlighter: rouge
^112ddbd (Anish Athalye 2019-01-04 22:00:31 -0500 11) permalink: /:title/
^112ddbd (Anish Athalye 2019-01-04 22:00:31 -0500 12) future: true
^112ddbd (Anish Athalye 2019-01-04 22:00:31 -0500 13) # safe: true # breaks local rendering if enabled
^112ddbd (Anish Athalye 2019-01-04 22:00:31 -0500 14) timezone: America/New_York
^112ddbd (Anish Athalye 2019-01-04 22:00:31 -0500 15) analytics:
1320c3c9 (Anish Athalye 2023-02-12 08:48:11 -0500 16)   tracking_id: G-P7WVHD84D1
^112ddbd (Anish Athalye 2019-01-04 22:00:31 -0500 17)
a88b4eac (Anish Athalye 2020-01-17 15:26:30 -0500 18) collections:
a88b4eac (Anish Athalye 2020-01-17 15:26:30 -0500 19)   '2019':
a88b4eac (Anish Athalye 2020-01-17 15:26:30 -0500 20)     output: true
a88b4eac (Anish Athalye 2020-01-17 15:26:30 -0500 21)   '2020':
a88b4eac (Anish Athalye 2020-01-17 15:26:30 -0500 22)     output: true
a88b4eac (Anish Athalye 2020-01-17 15:26:30 -0500 23)
^112ddbd (Anish Athalye 2019-01-04 22:00:31 -0500 24) # Excludes
^112ddbd (Anish Athalye 2019-01-04 22:00:31 -0500 25) exclude:
^112ddbd (Anish Athalye 2019-01-04 22:00:31 -0500 26)   - README.md
^112ddbd (Anish Athalye 2019-01-04 22:00:31 -0500 27)   - Gemfile
^112ddbd (Anish Athalye 2019-01-04 22:00:31 -0500 28)   - Gemfile.lock
fa309f93 (Anish Athalye 2020-05-16 11:13:27 -0400 29)   - vendor
shabir@shabir-VirtualBox:~/GIT/missing-semester$

```

The commit hash for the line collection line is **a88b4eac**. To check the details of this commit, I used the command,

git show a88b4eac

The terminal output is shown below,

```

shabir@shabir-VirtualBox: ~/GIT/missing-semester
shabir@shabir-VirtualBox:~/GIT/missing-semester$ git show a88b4eac
commit a88b4eac326483e29bdac5ee0a39b180948ae7fc
Author: Anish Athalye <me@anishathalye.com>
Date:   Fri Jan 17 15:26:30 2020 -0500

    Redo lectures as a collection

diff --git a/2020/index.html b/2020/index.html
deleted file mode 100644
index 153ddc8..0000000
--- a/2020/index.html
+++ /dev/null
@@ -1,5 +0,0 @@
----
-layout: redirect
-redirect: /
-title: Missing Semester 2020
----
diff --git a/2019/automation.md b/_2019/automation.md
similarity index 100%
rename from 2019/automation.md
rename to _2019/automation.md
diff --git a/2019/backups.md b/_2019/backups.md
similarity index 100%
rename from 2019/backups.md
rename to _2019/backups.md
diff --git a/2019/command-line.md b/_2019/command-line.md
similarity index 100%
rename from 2019/command-line.md
rename to _2019/command-line.md
diff --git a/2019/course-overview.md b/_2019/course-overview.md
similarity index 100%

```

The commit message associated with the collection line is **Redo lectures as a collection**.