In [1]:
```bash
%%bash
cd ~/github
mkdir data_project
```

In [6]:
```bash
%%bash
cd ~/github/data_project

git init
```

```
Initialized empty Git repository in /Users/rahululman/github/data_projec
t/.git/
```

In [2]:
```bash
%%bash
touch data_cleaning.py data_analysis.py visualization.py

git add .
```

In [ ]:
```bash
%%bash
git commit -m "Initial commit with data processing scripts"
```

```
[main (root-commit) 6944d86] Initial commit with data processing scripts
 4 files changed, 89 insertions(+)
 create mode 100644 data_analysis.py
 create mode 100644 data_cleaning.py
 create mode 100644 hw3.ipynb
 create mode 100644 visualization.py
```

In [1]:
```bash
%%bash
git log
```

```
commit 6944d86d5c722f31292e7eb481bc6830ab5bbc50
Author: romeouni <rahul.ulman@gmail.com>
Date:   Mon Feb 10 21:32:36 2025 -0500

    Initial commit with data processing scripts
Author: romeouni <rahul.ulman@gmail.com>
Date:   Mon Feb 10 21:32:36 2025 -0500

    Initial commit with data processing scripts
```

In [2]:
```bash
%%bash
git add .
git commit -m "Add clean_data function to data_cleaning.py"
```

```
[main 3d33fd1] Add clean_data function to data_cleaning.py
 2 files changed, 50 insertions(+), 17 deletions(-)
 2 files changed, 50 insertions(+), 17 deletions(-)
```

In [3]:
```bash
%%bash
git branch feature-exploration
git checkout feature-exploration
```

```
Switched to branch 'feature-exploration'
```

In [4]:
```bash
%%bash
touch exploratory_analysis.py
git add .
git commit -m "Add exploratory_analysis.py for initial data exploration"
```

```
[feature-exploration 45509e2] Add exploratory_analysis.py for initial data
exploration
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 exploratory_analysis.py
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 exploratory_analysis.py
```

In [5]:
```bash
%%bash
git checkout main
```

```
Switched to branch 'main'
```

In [7]:
```bash
%%bash
git merge feature-exploration
```

```
Updating 3d33fd1..45509e2
Fast-forward
 exploratory_analysis.py | 0
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 exploratory_analysis.py
Fast-forward
 exploratory_analysis.py | 0
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 exploratory_analysis.py
```

In [10]:
```bash
%%bash
git remote add origin https://github.com/romeouni/data_project.git
git branch -M main
git push -u origin main

git branch -a
```

```
To https://github.com/romeouni/data_project.git
 * [new branch]      main -> main
branch 'main' set up to track 'origin/main'.
  feature-exploration
* main
  remotes/origin/main
```