

asgn07 - the Names Code Challenge

Objectives

- Use concepts we have covered: arrays, strings, loops and functions to parse text
- Write an algorithm
- Use git and GitHub
- Refactor code
- Upload to your web host

Set up

- Create a new folder called **web182/asgn07-names** . Create a file named index.php and store it in asgn12-names .
- You may create other files -- function library or similar included files as needed.
- Update your web182/index.html file to include a link to asgn07-names .
- Download the **names.txt** file from Moodle and store it in **web182/asgn07**. This is a large file. To make testing easier use the first 20 - 30 lines and make a new file containing those lines for testing.

Git

Open your terminal and navigate to the following path.

Win `cd c:/xampp/web182/asgn07-names`

Mac

```
cd /Applications/MAMP/htdocs/web182/asgn07-names
```

Add and stage your files

```
git add .
git status
git add .
git commit -m "Start of the names coding challenge."
```

GitHub

Add this assignment to your existing web182 GitHub account.

If you no longer have a web182 GitHub account, create a new one.

Code

Output

In the video, I demonstrate the first three lists to output.

Add the following requirements to your lists.

1. The unique count of full names (i.e. duplicates are counted only once)
2. The unique count of last names
3. The unique count of first names
4. The most common last names (the names and number of occurrences)
5. The most common first names (the names and number of occurrences)

Name Validation

Here are some rules about what you should consider a name:

1. Names start at the beginning of the line.
2. Names follow these rules

```
2.1 Formatted "Lastname, Firstname"
2.2 Contain only uppercase and lowercase letters
```

Ignore names that don't follow these rules.

What to submit

- Push your code to your webhost so the user can click on the asgn07-names link and see your results
- Push your final code to GitHub so your instructor can read it
- Add links to your website and GitHub account in the Comments section in Moodle