

WEEK 5

COMP(2041|9044)

Favourite Pringles Flavour?

AGENDA

1. Case Statements
2. Shell Functions
3. Git

CASE STATEMENTS

```
case EXPRESSION in
```

```
    PATTERN_1)  
        STATEMENTS  
    ;;
```

```
    PATTERN_2)  
        STATEMENTS  
    ;;
```

```
    PATTERN_N)  
        STATEMENTS  
    ;;
```

```
    *)  
        STATEMENTS  
    ;;  
esac
```

```
case $COUNTRY in
```

```
    Lithuania)          echo -n "Lithuanian" ;;
```

```
    Romania | Moldova)  echo -n "Romanian"  ;;
```

```
    Italy)              echo -n "Italian"    ;;
```

```
    *)                 echo -n "unknown"    ;;
```

```
esac
```

CASE STATEMENTS

2. Given an anonymous [list of CSE logins](#).

Write a shell script *last.sh* that, using shell `case` statments, finds the number of loggins that occurred from within UNSW.

(Look for connections to from the uniwide network)

Additionally, find the distribution of zIDs by their first digit.

FUNCTIONS



```
functionName () {  
    # statements...  
    echo $1 $2 $3  
}
```

```
functionName arg1 arg2 arg3
```



```
Hello () {  
    echo "Hello World $1 $2"  
}
```

```
Hello "Jeremy" "Le"
```

FUNCTIONS

3. Write a shell function *top_and_bottom* that, given a file name, prints the file name, plus the first and last lines of the file.

```
$ . top-and-bottom.sh
$ top-and-bottom /usr/share/dict/british-english-insane
=====
/usr/share/dict/british-english-insane
-----
A
événements
=====
```

FUNCTIONS

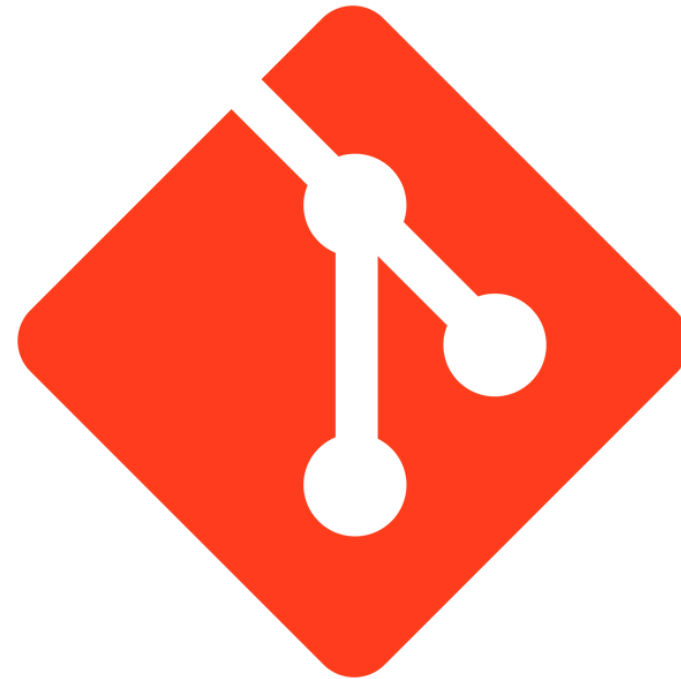
4. Write a shell function *print_message* that, given an optional exit status and a message:

If no exit status is given the program should print a warning

If an exit status is given the program should print an error and exit the program

GIT

- Version Control software
- Allows you to save snapshots of code
- Combined with cloud providers / online storage, i.e. Gitlab / Github / Bitbucket, allows users to work on code together



GIT

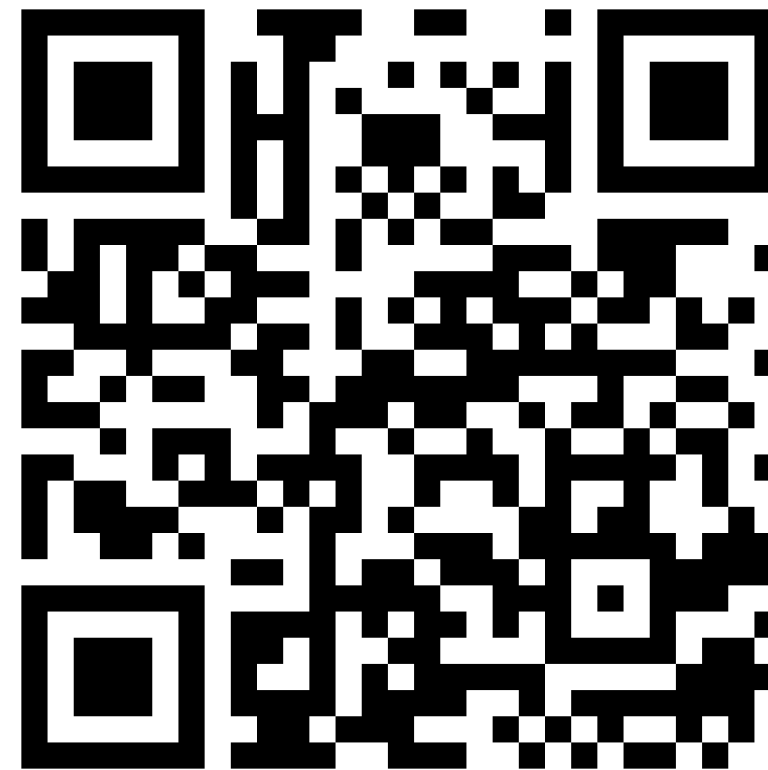
- git add: Stage files
- git commit: Commit the staged files as a snapshot
- git push: Push your new commits to an online origin
- git status: State of current repository & branch
- git log: History of current branch

Git Basics Guide



FEEDBACK FORM

Anonymous Feedback Form



TIME FOR LAB

[Code and Slides Available here](https://github.com/jeremyle56/tutoring/tree/24T2/24T2/cs2041)

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