

william.huynh3@unsw.edu.au



JavaScript Developers



Learning objectives

Reinforcing our understanding of JavaScript

• Resolving merge conflicts

How to do well in this project as a Team

Optional: Objects ... maybe????





T09B Finalised Groups

5418007	Thomas Brown	T09B_AERO
5420578	Daniel King	T09B_AERO
5420034	Eric Liang	T09B_AERO
5419018	Andrew Aguilar	T09B_AERO
5419020	Riley Leighton	T09B_AERO
5316642	Amy Clarke	T09B_BOOST
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5207959	Daniel Fan	T09B_CRUNCHIE
5404557	Sanskar Sahu	T09B_CRUNCHIE
5363946	Haadiya Mustafa	T09B_DREAM
5376765	Samuel Lim	T09B_DREAM
5421256	Sunny Chen	T09B_DREAM
5417001	Ansh Gulati	T09B_DREAM
5418955	Aedan Keldoulis	T09B_DREAM
5390758	Advaita Nitturkar	T09B_EGGS
5421946	Benjamin Stacey	T09B_EGGS
5425354	Jeyanth Goringe	T09B_EGGS
5417310	Rishi Wig	T09B_EGGS
5413747	Josh Fotheringham	T09B_EGGS





H17B Finalised Groups

5416492	Samuel Lim	H17B_AERO
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5413842	Robert Han	H17B_CRUNCHIE
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5258425	Danny Dien	H17B_CRUNCHIE
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5363988	Andrew Ha	H17B_EGGS





Attendance recorded starting Week 2

Tutorial participation and attendance contributes to your project mark



```
1 int x = 4;
2 x = x + 1;
3 console.log(x + "\n");
```



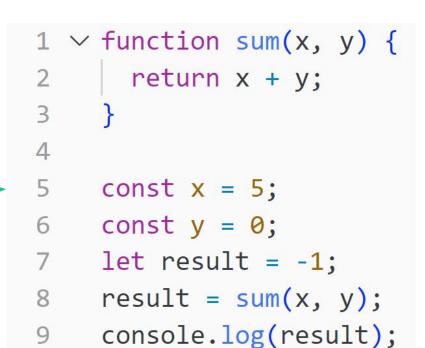
```
int x = 4;
2 x = x + 1;
   console.log(x + "\n");
      let x = 4;
  2 x = x + 1;
       console.log(x);
```



```
function sum(x, y);
3 \vee function sum(x, y) {
      return x + y;
     const x = 5;
    const y = 0;
8
    const result = -1;
10 result = sum(x, y);
11 console.log(result);
```



```
function sum(x, y);
  \vee function sum(x, y) {
       return x + y;
     const x = 5;
     const y = 0;
     const result = -1;
     result = sum(x, y);
10
     console.log(result);
```







```
1  let array = [1, 2, 3, 4];
2
3  for (const i = 0; i < array.length; i++) {
4   console.log(array[i] + '\n');
5  }</pre>
```



```
let array = [1, 2, 3, 4];
for (const i = 0; i < array.length; i++) {
  console.log(array[i] + '\n');
       const array = [1, 2, 3, 4];

   for (const element of array) {
        console.log(element);
```



Code Review

```
let x=[1, 2, 3, 4, 5, 6, 7, 8, 9, 10];
     let result=[];
     for (let i = 0; i < x.length; i++) {
         if (x[i] \% 2 === 0) {
             result.push(x[i] * 2);
         } else {
             result.push(x[i]);
     console.log(result);
10
```

In project groups, discuss the following:

- What does the code do?
- How can the style be improved?
- How can we modify to code to be more *javascripty?*

Once you have some ideas, try re-write the code using the JavaScript practices you discussed.

To run your program:

```
node <your_file_name>
```





Code Review: A better solution

```
let x=[1, 2, 3, 4, 5, 6, 7, 8, 9, 10];
                                                            const integers = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10];
     let result=[];
                                                            const result = [];
     for (let i = 0; i < x.length; i++) {
                                                        3 ∨ for (const integer of integers) {
         if (x[i] \% 2 === 0) {
                                                        4 \vee if (integer % 2 === 0) {
            result.push(x[i] * 2);
                                                                result.push(integer * 2);
         } else {
                                                              } else {
             result.push(x[i]);
                                                                result.push(integer);
                                                        9
     console.log(result);
10
                                                            console.log(result);
                                                       10
```





Code Review: An even better solution

```
const integers = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10];
    const result = [];
3 ∨ for (const integer of integers) {
4 \rightarrow if (integer % 2 === 0) {
        result.push(integer * 2);
result.push(integer);
    console.log(result);
```

```
const integers = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10];
    const result = [];
    for (const integer of integers) {
      result.push(integer % 2 === 0 ? integer * 2 : integer);
5
    console.log(result);
```



Code Review: The best solution (week 4)

```
const integers = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10];
    const result = [];
3 ∨ for (const integer of integers) {
      result.push(integer % 2 === 0 ? integer * 2 : integer);
   console.log(result);
```

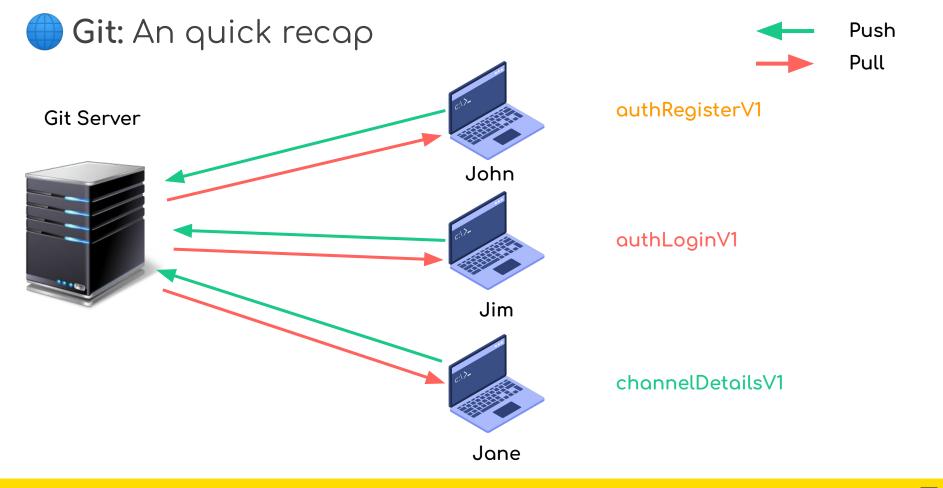
```
const integerArray = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10];
const result = integerArray.map(integer => integer % 2 === 0 ? integer * 2 : integer);
console.log(result);
```



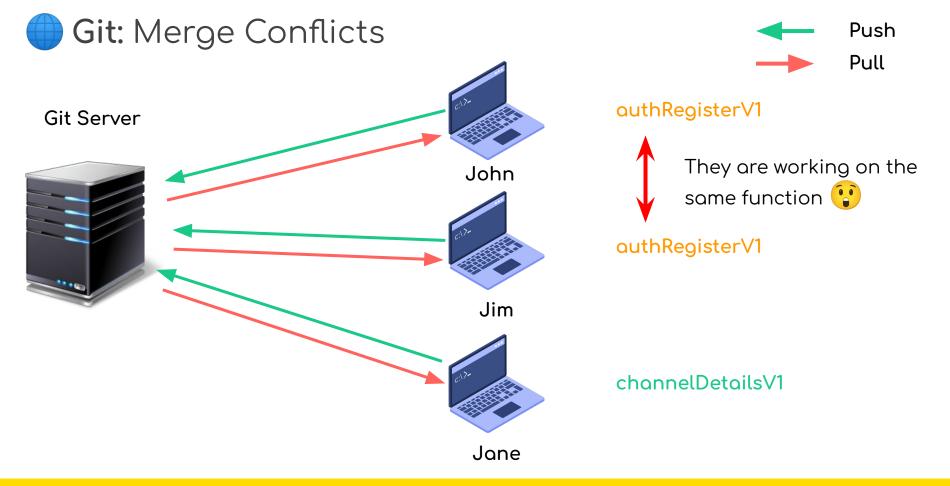
Git: An quick recap

git clone <git_url></git_url>	Downloads a Git Repository to your local computer
git add <your_file.js></your_file.js>	Take the 'added' files and record their changes, in preparation to be uploaded to Git
git commit -m "your message"	Take the 'added' files, and creates a snapshot of those files. They are now ready to be uploaded to Git.
git push	Uploads the 'added' files to Git
git pull	Downloads changed/new files from Git to your Local Computer















authRegisterV1



authRegisterV1









git push

git pull

```
TS walkThroughPart.ts src/vs/workbench/parts/welcome/walkThrough/electron-browser
                                 snippet: i
   Accept Current Change | Accept Incoming Change | Accept Both Changes | Compare Changes
   <<<<< HEAD (Current Change)
                    this.updateSizeClasses():
                    this.multiCursorModifier():
                    this.contentDisposables.push(this.configurationService.onDidU
                    this.toggleSizeClasses();
   >>>>> Test (Incoming Change)
                     if (input.onReady) {
                         input.onReady(innerContent);
                    this.scrollbar.scanDomNode():
                    this.loadTextEditorViewState(input.getResource());
                    this.updatedScrollPosition();
            1):
```



main branch

local branch

```
1 ∨ function rainfall(integers) {
       let total = 0;
       let count = 0;
 4 ~
       for (let i = 0; i < integers.length; i++) {
         if (integers[i] > 0) {
 6
           total += integers[i];
 7
8
            count++;
 9
10 ~
       if (count === 0) {
         return null;
11
12
        } else {
13
         return total / count;
14
```



Git: Merge Conflicts

- Create a local branch
- 2. Create a file called **waterfall.js** in that local branch and add the 'for-of-loop' code
- Create a new file also called waterfall.js but in the master branch and add the 'for-index-loop' code
- On our local branch, we will add, commit, and push, the code
- 5. See what happens....



Teamwork Principles

Brainstorm a list of good and poor attributes for team members working on a project.

Suppose there is a member in a group who has gone silent and has yet to complete much of their assigned work. The reason is unknown.

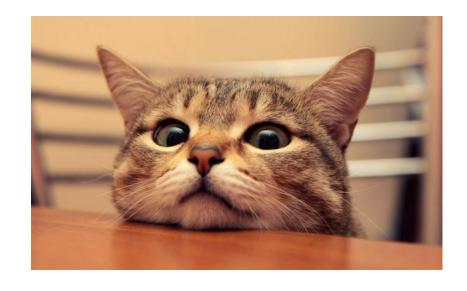
- How should the remaining members approach the situation?
- What can groups do beforehand such that if this occurs, they can manage or minimise the impact?





🏠 Be a good team member !!!

- Communication
- 💯 Time Management
- **Monesty**
- Responsibility
- Enthusiasm (for your group + project!)





But what if...

A team member suddenly disappears without doing their work!

What should you do?

- Immediately notify tutor AND allocate the work to backup group member(s)
- Maintain contact with the group member (maybe a message a day)
 - Please don't be aggressive
- Document it (in meeting minutes)





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5413747	Josh Fotheringham	T09B_EGGS

10:20 - 10:40 AM

10:40 - 11:00 AM

11:00 - 11:20 AM

11:20 - 11:40 AM

11:40 - 12:00 PM





H17B Lab Project Check-Ins

5416492 Samuel Lim H17B_AERO 5416493 Lachlan Liu H17B_AERO 5417542 Jonathan Lai H17B_AERO 5406774 Nuren Alahee H17B_AERO 5316690 Helen Song H17B_AERO 5418326 Daniel Shi H17B_BOOST 5417290 James Lu H17B_BOOST 5419389 Jake Song H17B_BOOST 5421898 Dulini Galhena H17B_BOOST 5111130 Jingqi Wang H17B_CRUNCHIE 5419375 Jeffrey Lu H17B_CRUNCHIE 5419703 Zachary Ecob H17B_CRUNCHIE 5419703 Zachary Ecob H17B_CRUNCHIE 5419704 Zachary Ecob H17B_CRUNCHIE 5419705 Danny Dien H17B_CRUNCHIE 5419703 Luqing Wang H17B_DREAM 5397747 Cho Sun H17B_DREAM 5420097 Morgan Au H17B_DREAM 5420097 Morgan Au H17B_DREAM 5420097 Morgan Au H17B_EGGS 530			Department of the second of
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6:20 - 6:40 PM

6:40 - 7:00 PM

7:00 - 7:20 PM

7:20 - 7:40 PM

7:40 - 8:00 PM





H17B Holiday Lab Project Check-Ins

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5428082 Huu Phuc Tran H17B DREAM	
5420097 Morgan Au H17B_DREAM	
5265211 Sebastian Williams H17B_EGGS	
5310467 Sam Mears H17B_EGGS	
5397993 Byron Petselis H17B_EGGS	
5421468 Kalaish Stanley H17B_EGGS	
5363988 Andrew Ha H17B_EGG\$	

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