Functional Diagram Practice & git 101

Have out Paper and Pencil or an iPad/Tablet+Stylus - Laptops placed away! Bags under seats!

Only use Zones ABC. No DEF!

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Diagram the following code listing

```
export const f = (x: number) => {
       return (y: number) => {
         return (z: number) => {
           return x + y + z;
6
     const a = f(1);
     const b = a(2);
10
     const c = b(3);
11
     console.log(c);
```

```
export const f = (x: number) => {
        return (y: number) => {
          return (z: number) => {
            return x + y + z;
 6
        };
      };
 8
     const a = f(1);
     const b = a(2);
10
     const c = b(3);
11
     console.log(c);
12
```

```
$ git init
$ echo "hello" >demo
$ git add demo
$ git commit -m 'First commit.'
[main (root-commit) 6012aef]
First commit.
1 file changed, 1 insertion(+)
create mode 100644 demo
$ echo "world" >>demo
$ git add demo
$ git commit -m 'Second commit.'
[main 773ba11] Second commit.
1 file changed, 1 insertion(+)
```

Discuss with a partner what you believe is going on as each of the commands to the left is executed.

Current Working Directory (CWD)	Git's Stage
Git's Commit Log	

Quiz Topics for Wednesday

- Memory Diagramming w/ Higher-order Functions and Closures
- Learn a CLI (Shell 101 / Paths)
- Tools & DevContainer 101 (High-level concepts, not details!)
- Type Inference (you infer the missing type, like TypeScript would)
- Asynchronous Functions and Promises
- Unit Testing 101 (high-level concepts, e.g. what is mocking vs. instrumenting/"spying")
- Dynamically vs. Statically Typed Languages