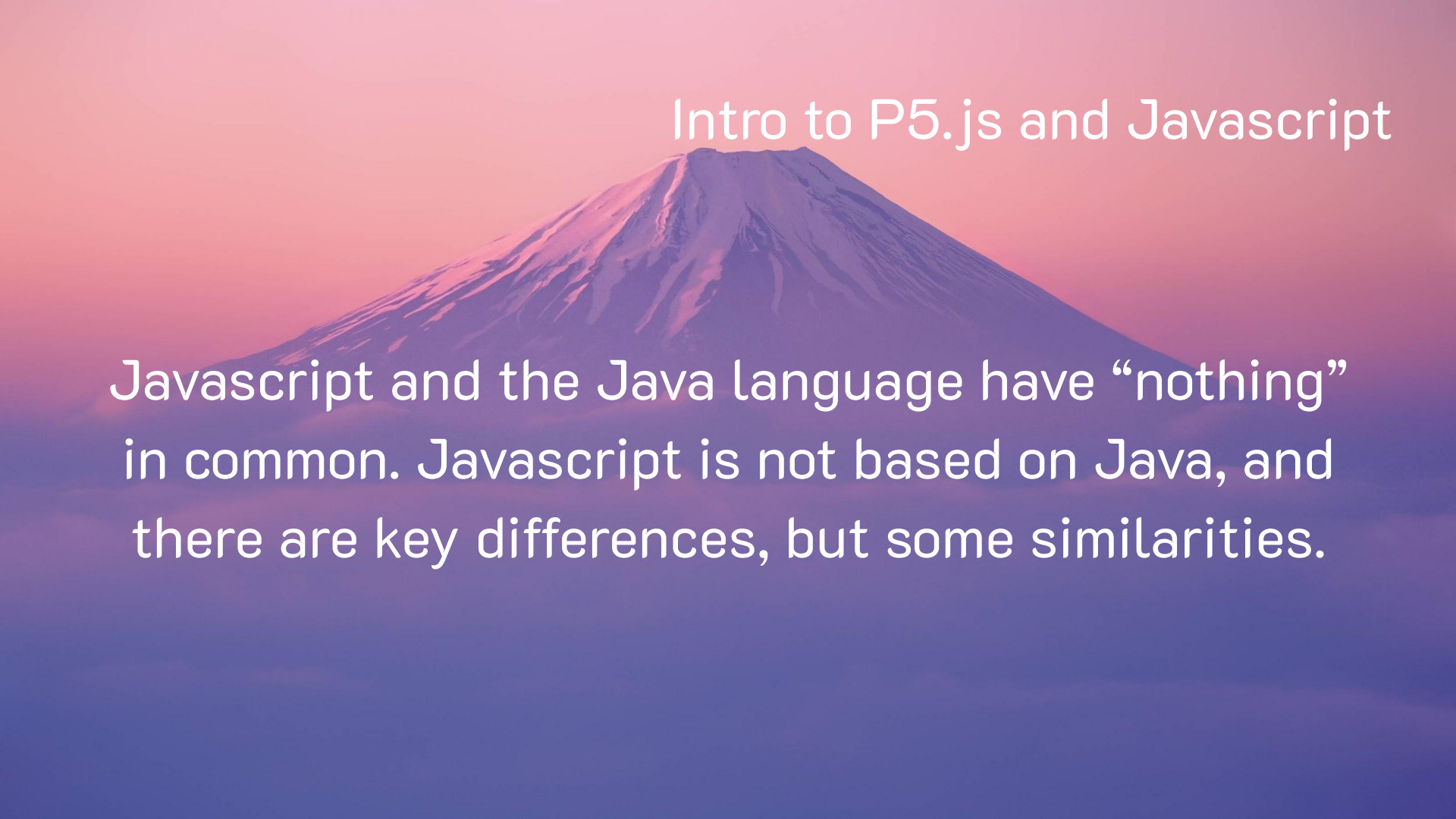
MIDTERM
LIGHTNING
ROUND

GREETINGS
FROM THE
INTERNET

(P5.js & Web)

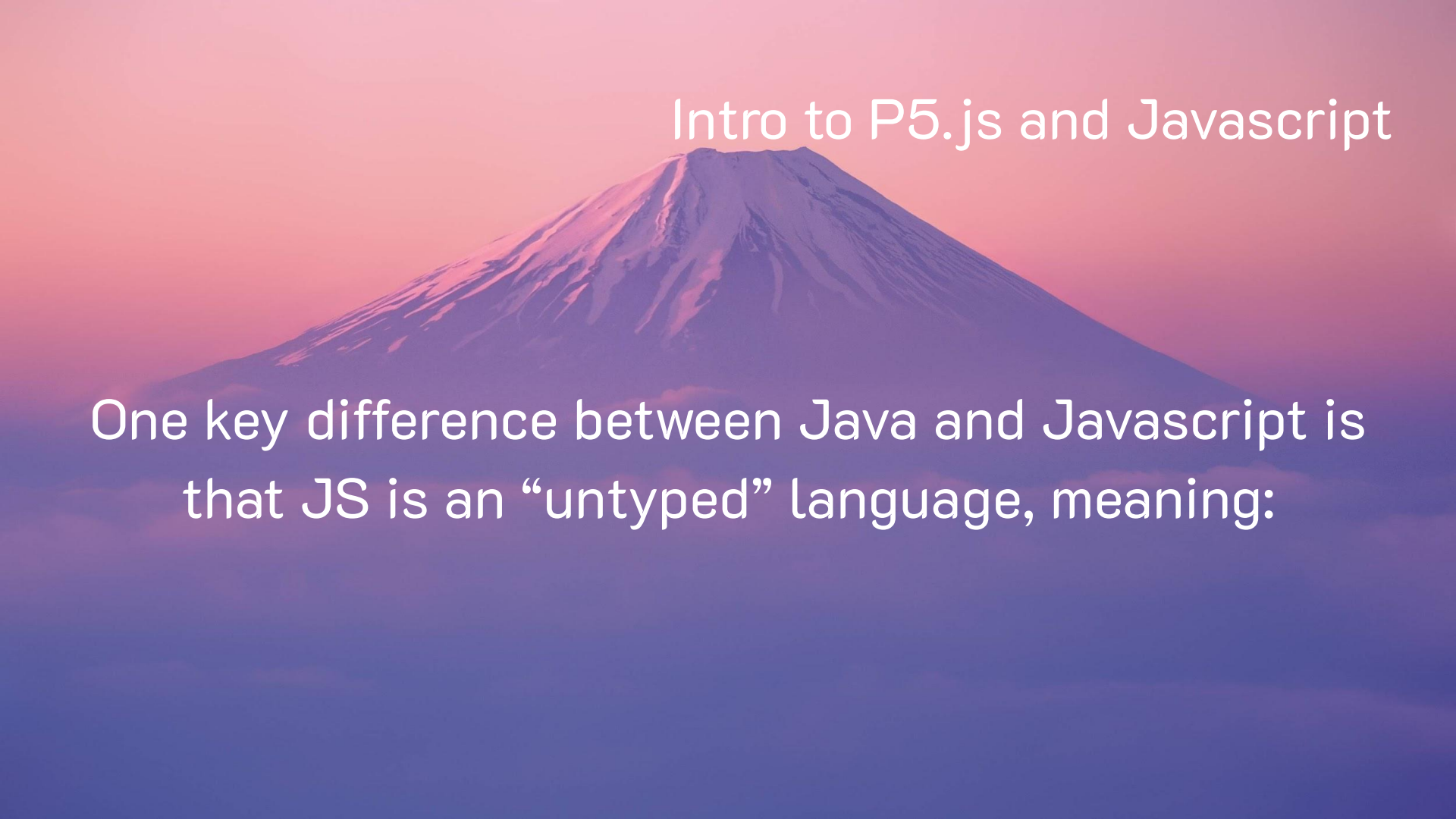
Intro to P5.js and Javascript

We will now be transitioning the class over to working with P5.js – Processing in the Browser.



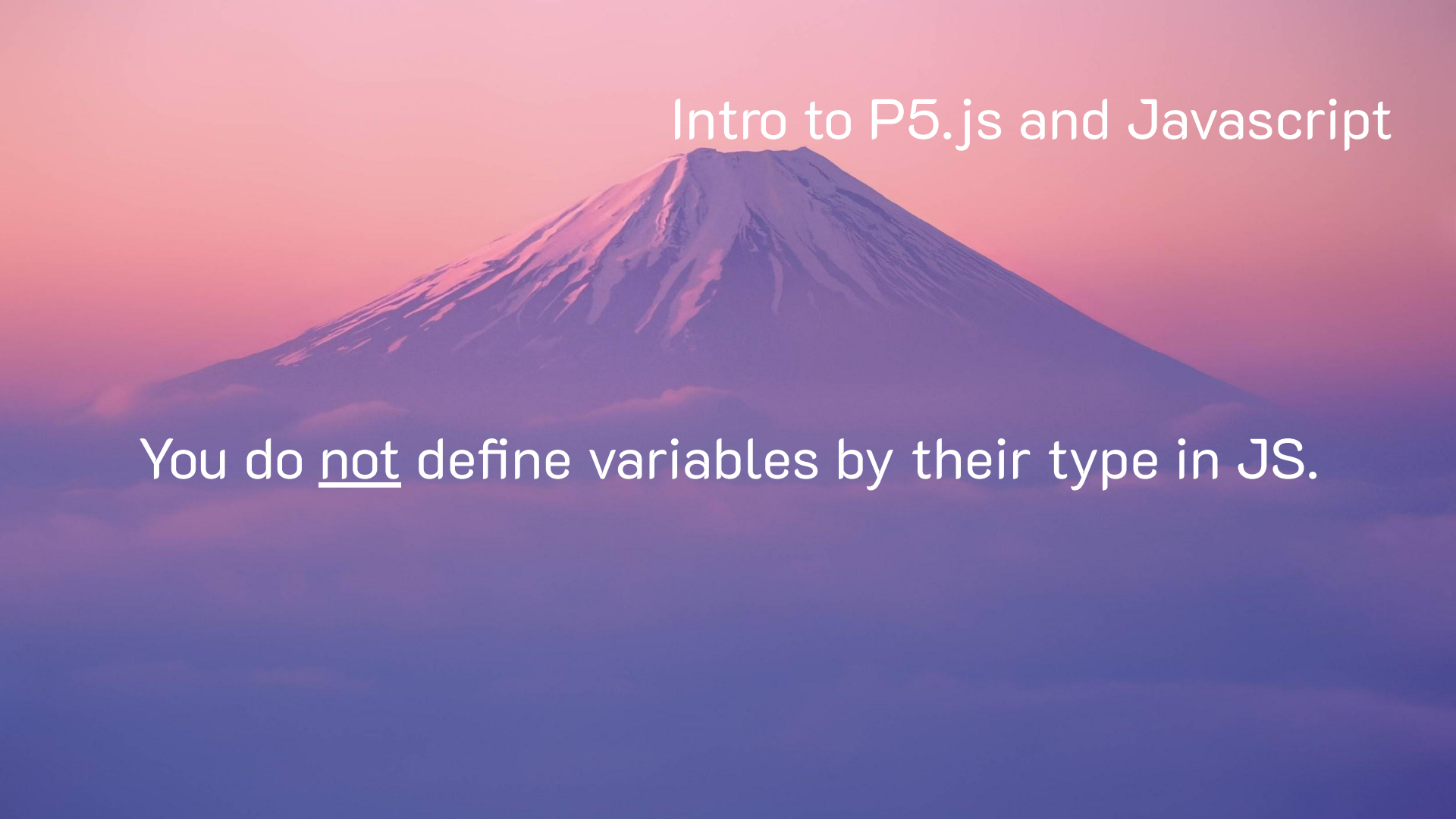
Intro to P5.js and Javascript

Javascript and the Java language have “nothing” in common. Javascript is not based on Java, and there are key differences, but some similarities.



Intro to P5.js and Javascript

One key difference between Java and Javascript is that JS is an “untyped” language, meaning:


Intro to P5.js and Javascript
You do not define variables by their type in JS.

Processing VS. P5.js

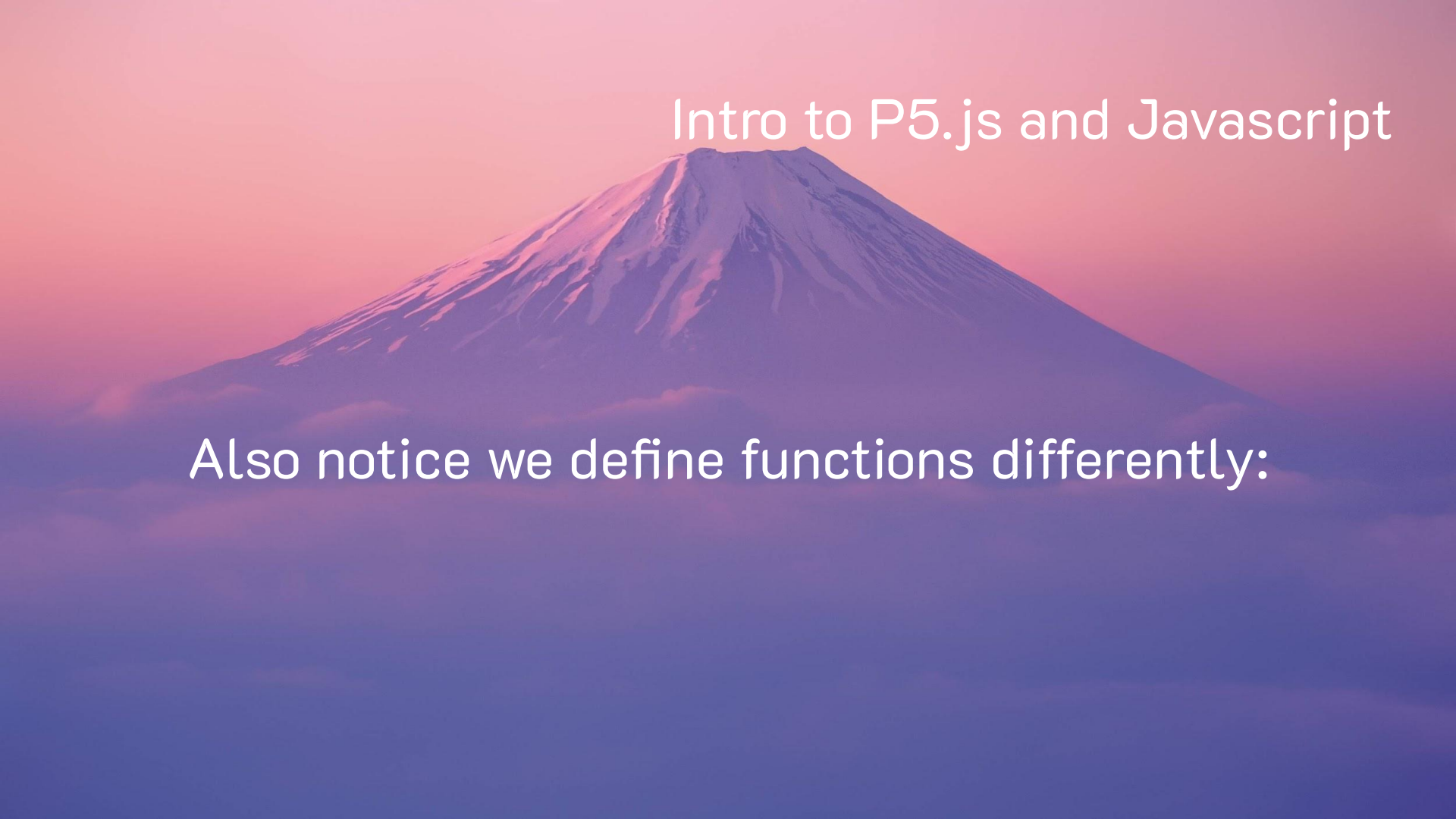
```
int posX = 10;
float scalar;

void setup() {
    scalar = 0.5;
}
```

Processing

```
var posX = 10;
var scalar;

function setup() {
    scalar = 0.5;
}
```

P5.js

Intro to P5.js and Javascript
Notice we use `var variableName` in JS.


Intro to P5.js and Javascript
Also notice we define functions differently:

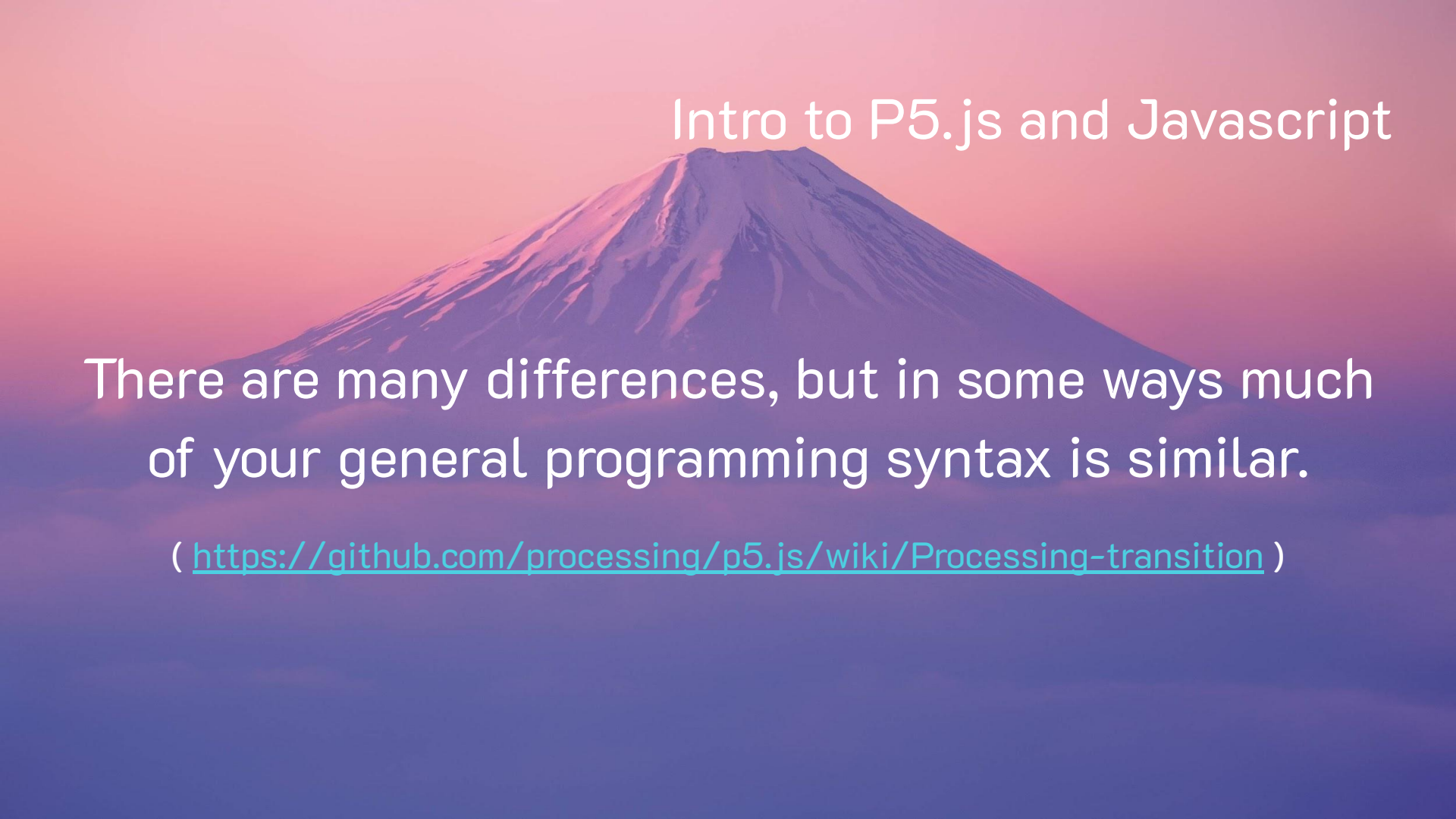
Processing VS. P5.js

```
int posX = 10;
float scalar;

void setup() {
    scalar = 0.5;
}
```

Processing

```
var posX = 10;
var scalar;

function setup() {
    scalar = 0.5;
}
```

P5.js



There are many differences, but in some ways much of your general programming syntax is similar.

(https://github.com/processing/p5.js/wiki/Processing-transition)

Intro to P5.js and Javascript
Let’s look at the Javascript equivalent to classes...

HOMEWORK

Homework

- Create a new P5.js sketch inspired by work you've done, or adapt any of your previous sketches to work in P5.js on OpenProcessing.
- This sketch must include at least one Array and at least one custom function
- To go above and beyond, you can try including a class using "Prototype" syntax.