



MIDTERM LIGHTNING ROUND





**GREETINGS
FROM THE
INTERNET**

A photograph of Mount Fuji, a snow-capped volcano, centered in the background. The sky is a gradient of soft pink and purple, suggesting a sunset or sunrise. The foreground is a dark, deep blue, possibly representing water or a distant shore. The overall mood is serene and majestic.

(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

Intro to P5.js and Javascript



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...

A photograph of Mount Fuji, a snow-capped mountain, centered in the background. The sky is a gradient of soft pink and purple, suggesting a sunset or sunrise. The word "HOMEWORK" is superimposed in large, white, bold, sans-serif capital letters across the middle of the image, partially obscuring the mountain and the sky.

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.