

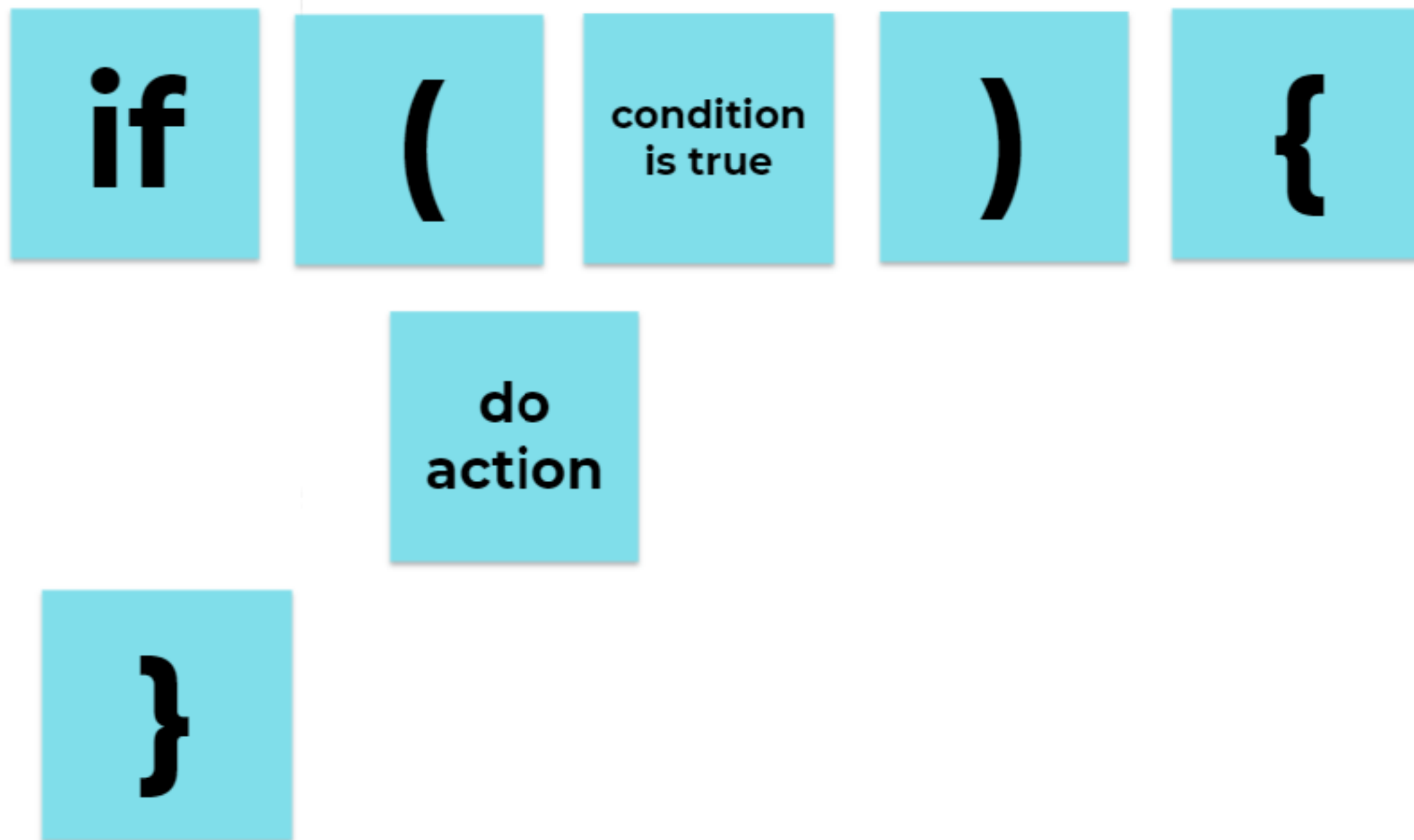
If statement

English phrase

If condition is true, do action

p5 syntax

```
if (condition is true) {  
  do action  
}
```



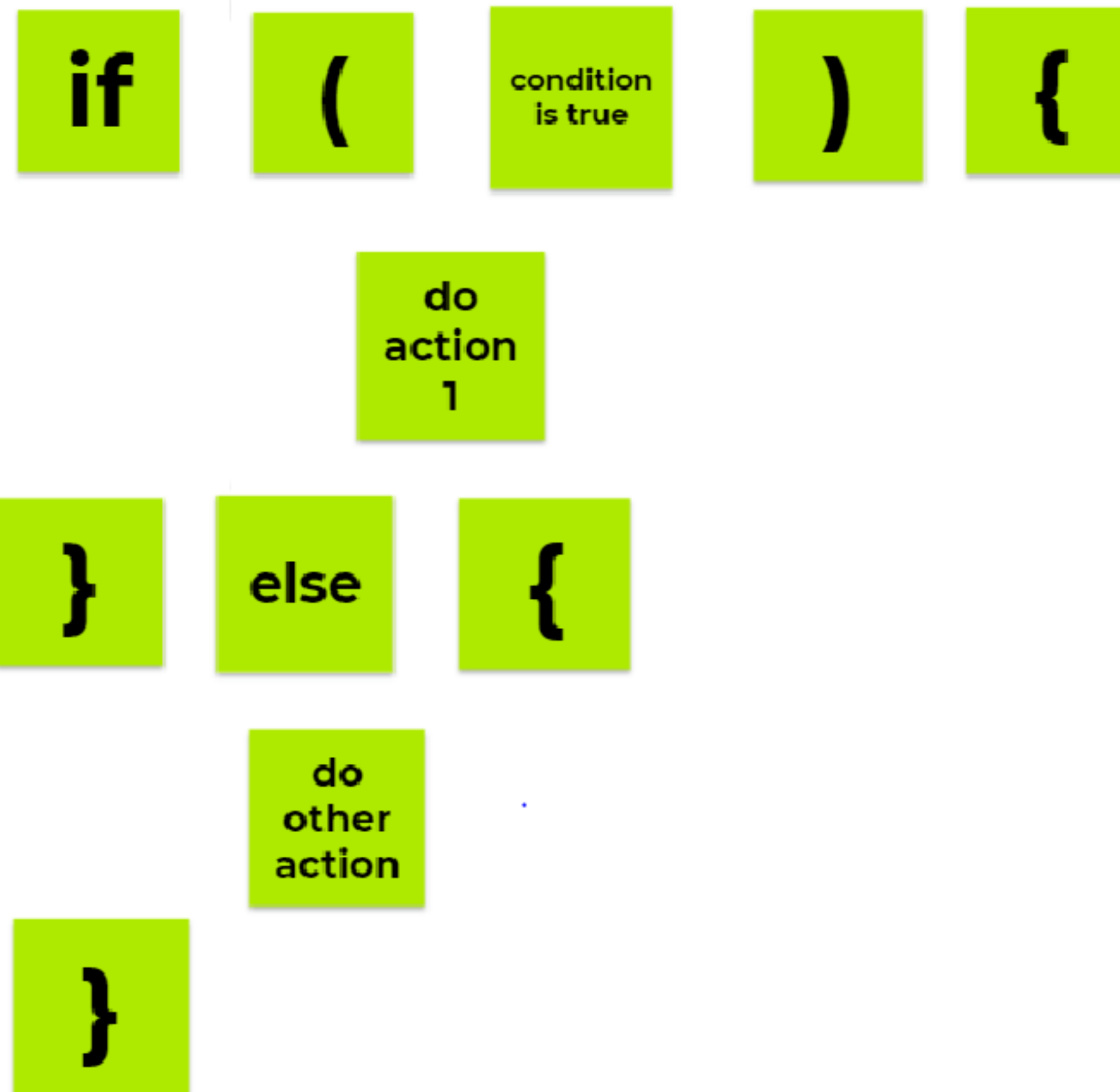
If-Else statement

English phrase

If condition is true, do action 1
Otherwise, do other action

p5 syntax

```
if (condition is true) {  
  do action 1  
} else {  
  do other action  
}
```



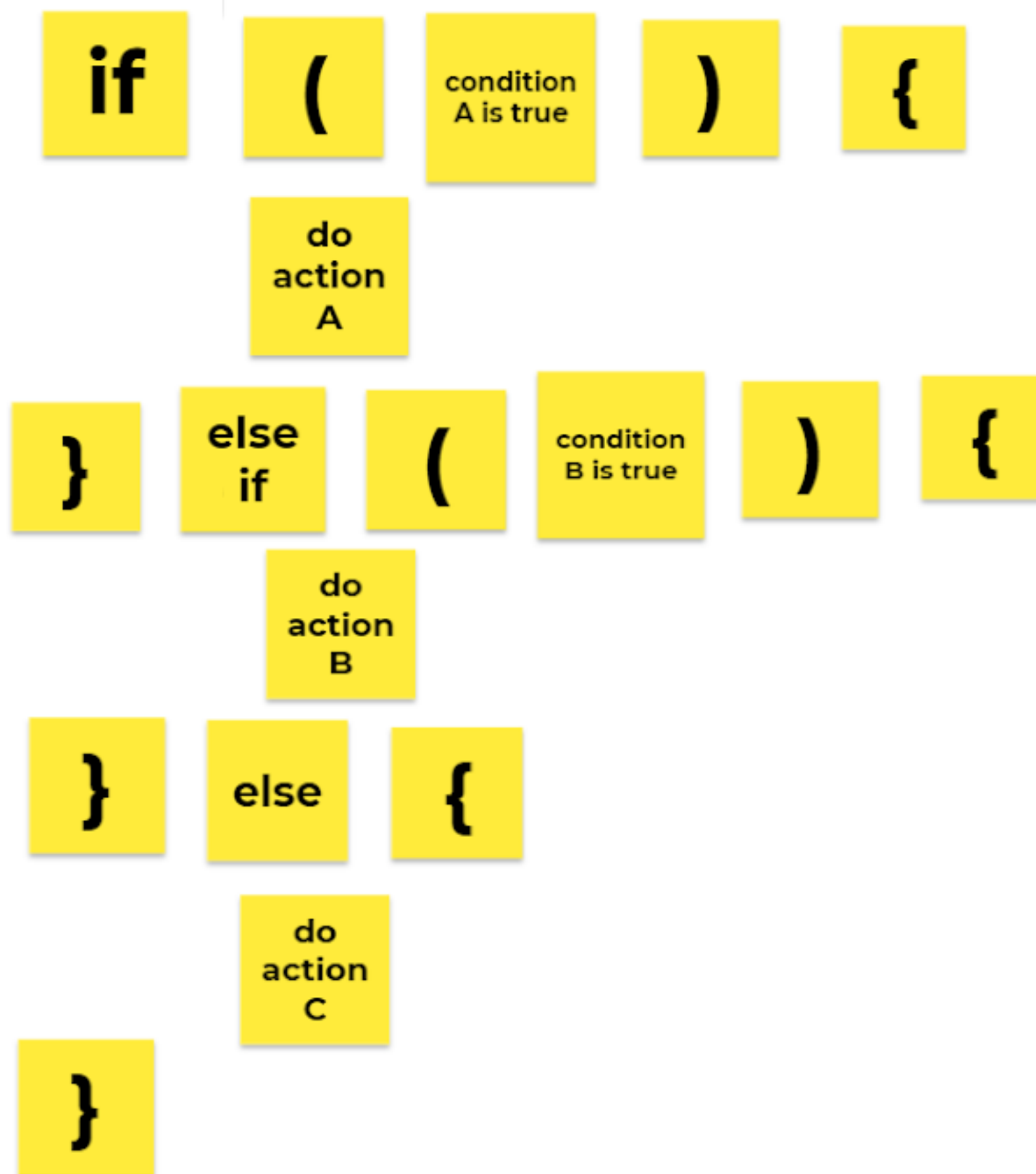
If-Else If-Else statement

English phrase

If condition A is true, do action A
Otherwise if condition B is true, do action B
Otherwise, do action C

p5 syntax

```
if(condition A is true) {  
  do action A  
} else if(condition B is true) {  
  do action B  
} else {  
  do other action C  
}
```



Your turn!

On the next few slides, translate the English phrases to p5 syntax. You'll then create & translate your own.

You can write the p5 syntax in a text box or move the sticky notes in the correct order.

Practice: If statement

English phrase

If it's cold outside, wear a coat

p5 syntax

it's
cold
outside

{

if

)

(

wear a
coat

}

Practice: If statement

English phrase

If mouseX is greater than or equal to 50, fill in with red.

p5 syntax

**mouseX
>= 50**

if

{

)

(

}

**fill(255,
0, 0);**

Practice: If-Else statement

English phrase

If you're tired, go to bed.
Otherwise, stay up late!

p5 syntax

{

you're
tired

stay up
late!

else

go to
bed

}

(

if

{

)

}

Practice: If-Else statement

English phrase

If mouseY is less than 100, set background to blue. Otherwise, set background to white.

p5 syntax

```
background(0,  
0, 255);
```

```
mouseY <  
100
```

```
}
```

```
(
```

```
else
```

```
}
```

```
)
```

```
if
```

```
{
```

```
background(255,  
255, 255);
```

```
{
```


Practice: If-Else If-Else statement

English phrase

If your shirt is blue, twirl around.

Otherwise if your shirt is red, fall to the ground

Otherwise, sing a song.

p5 syntax

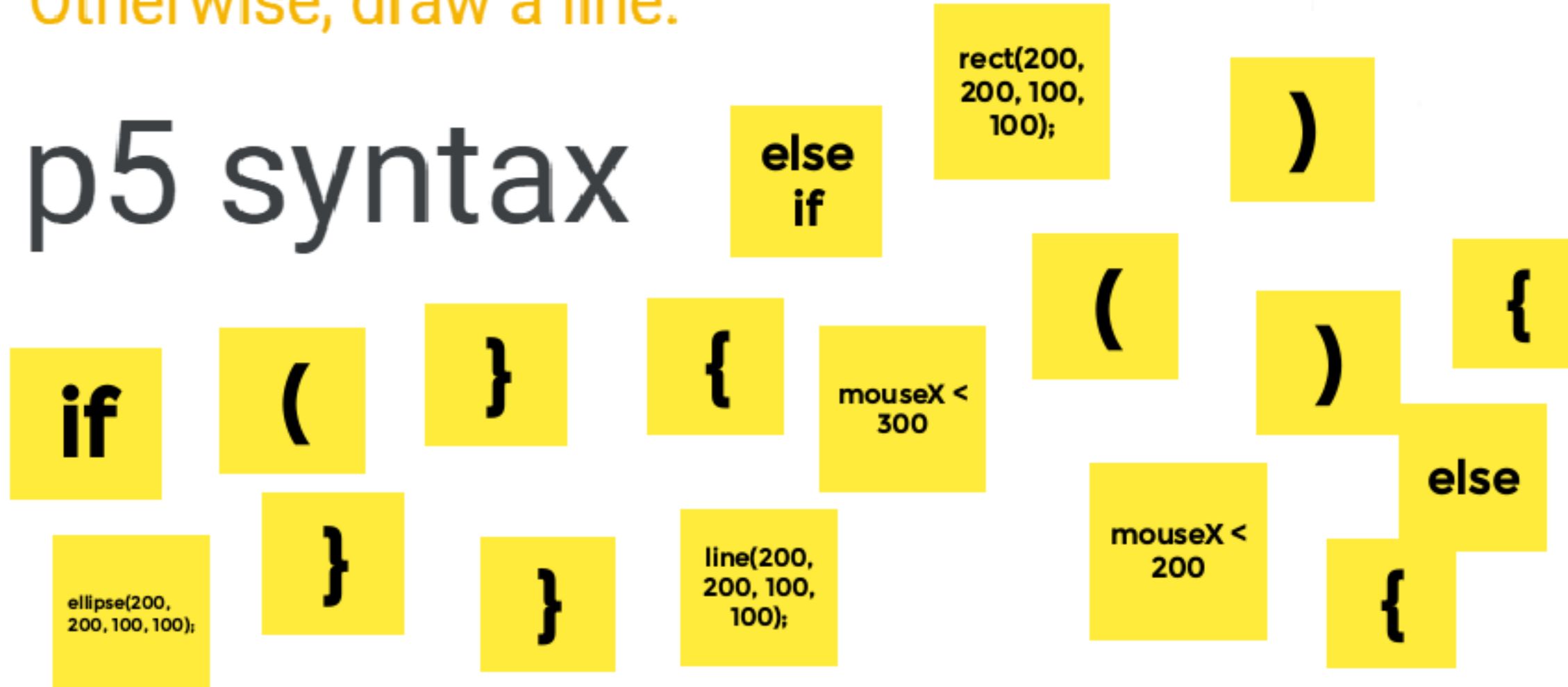


Practice: If-Else If-Else statement

English phrase

If mouseX is less than 200, draw a rectangle.
Otherwise if mouseX is less than 300, draw an ellipse
Otherwise, draw a line.

p5 syntax



Make your own English conditional phrase, then translate it into p5 syntax.