Cloning

TODO

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A game with just one platform isn't very impressive, so we need to add some more. But we don't want to copy/paste the code every time we make a platform—that would be no good at all!

What we want to do is to move the code for making a platform into a **function**. A function (aka. procedure, aka. "custom block" from Scratch) lets you give a **name** to a piece of code, so you can refer to it by name.

Move the platform code into a function, by adding function
 makePlatform() { at the beginning of that section, and } at the end.

```
function makePlatform() {
  //...[all your platform code]...
}
```

Put the function bits **around** your existing code.

You'll want to re-indent your code at this point—try selecting the code inside the function, and pressing the Tab key.

Save. You'll notice the platform disappears. This is because we haven't **called** our function; we've defined it, but not used it yet! Let's do that now.

Make a platform by calling your new function.

```
makePlatform()
```

Add this at the end of your program, before the final }).

Now we can easily make more platforms!

Add some more platforms.

```
makePlatform()
makePlatform()
makePlatform()
// ...
```

The platforms are all being made at the same height - we really want to make each platform higher than the last. Let's make a variable at the beginning of our program, to keep track of the height of the last one...

Create a lasty variable.

```
var lastY = 100
```

Add this before the makePlatform function.

Make sure not to put this *inside* makePlatform, or you'll get a **different** version of the lastY variable each time. We need to remember it between calls to our function, so it has to go outside.

Now let's use it.

■ Use lastY inside makePlatform.

```
platform.posY = lastY
```

• Challenge: increase lastY every time you make a platform.

Make sure you do this inside makePlatform!