

$$f(x) \circ g(x) = f(g(x))$$



`var == x == > x + 10;`

var = > x * 5;

$$(x + 10) * 5$$



```
var x=>(x+10)*5;
```

```
var x => (x);
```

x * 5 + 10

```
var x => (x);
```

var

=

x,

y

=

>

x

+

y;

$$(x + 10) * 5$$





函数组合(Function composition)

- 将多个函数组合成一个函数
- 每一个函数的输出作为下一个函数的输入
- 最后一个函数的输出作为整个表达式的输出

$$f(x) \circ g(x) = f(g(x))$$

$$(x + 10) * 5$$

```
var add10 = x => x + 10;
```

```
var mult5 = x => x * 5;
```



```
var mult5AfterAdd10 = x => (x + 10) * 5;
```

```
var mult5AfterAdd10 = x => mult5(add10(x));
```

$$x * 5 + 10$$

```
var add10AfterMult5 = x => add10(mult5(x));
```

```
var add = (x, y) => x + y;
```

```
var mult5 = x => x * 5;
```



$$(x + 10) * 5 \quad ?$$

柯里化(Currying)