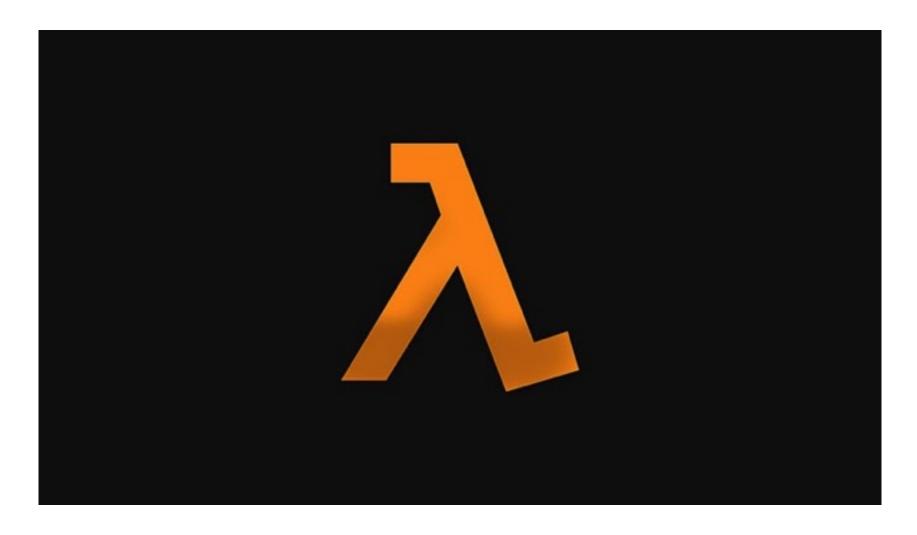
GoCode We learn by doing, by falling down, and by picking ourselves back up

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Lambdas

def f(x,y):

- A lambda creates anonymous functions.
- A way of creating a function on the fly.

```
f = lambda x, y : x + y
f(1,2)
```

return x + y

- Style of programming called functional programming.
- Derived from a language called LISP.

In LISP, you really only have two things, functions and lists.

Structuring code in a functional manner you can separate out algorithms from the details.

Map - map a function over a list

map(lambda x: (float(5)/9)*(x-32),[32.0,100.0]

Filter - filter out elements in a list

filter(lambda x: x % 2,[0,1,3,6])

Reduce - reduce a list to one element

reduce(lambda x,y: x+y, [47,11,42,13])

- Lambdas allow you to create functions on the fly.
- Functional programming is a different style of programming.
- Javascript relies heavily on lambdas and callbacks.
- Functional programming is a powerful tool.





