```
var a
```
declare a variable

```
{
```
organize code in blocks

```
  print foo
```
print to the terminal

```
}
```

```
fn f(x) {
  return x^2
}
```
define a function; return a value

```
foo(f)
```
functions can be passed to other functions!

parent class

```
class Foo is Boo {
  init(p) {
    self.prop = p
  }
}
```
define a class; ...with methods like this initializer; set and access object properties

```
a = Foo("hey")
```
create an object

```
a.foo()
```
invoke a method

```
if (i<1)  else
```
conditionally run code

```
for (a in b) {  }
```
loop over the contents of a collection

```
do {  } while (a<b)
while (a<b) {  }
```
conventional loops too

```
try {  } catch {  }
```
deal with anticipated errors

```
a = [ 1, 2, 3 ]
b = { "a": 1, "b": 2 }
```
lists ...and dictionaries

```
"Hello world ${i}"
```
strings (with interpolation)

```
m=Matrix(2,2)
m[0,0]=1
```
dense and sparse matrices; set and access elements of a collection by indexing

```
import optimize
```
extensible, modular