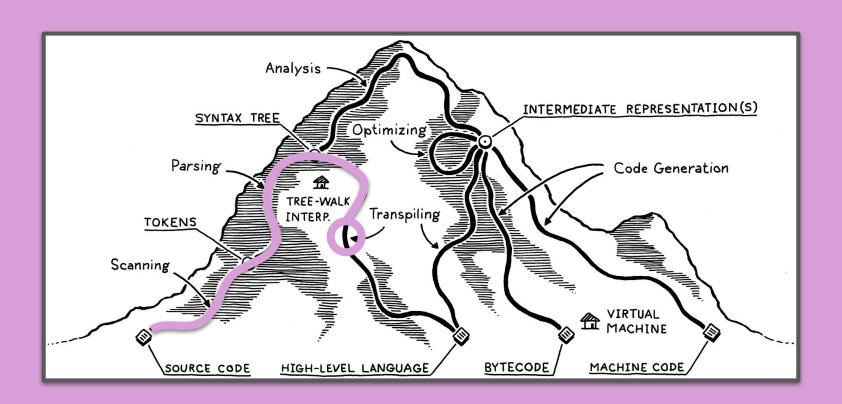


CMPSC 201: PROGRAMMING LANGUAGES



Functions

```
declaration
fun f(i,s,h) {
    var sum = i + s + h;
                         : ⊲····· body
    return sum;
```

Function grammar

Expressions

```
call \rightarrow primary ( "(" arguments? ")" )*; arguments \rightarrow expression ( "," expression)*;
```

Function grammar

Statements

```
declaration \rightarrow funDecl | varDecl | statement; funDecl \rightarrow "fun" function; function \rightarrow IDENTIFIER "(" parameters? ")" block; parameters \rightarrow IDENTIFIER ( "," IDENTIFIER )*; return \rightarrow "return" expression? ";";
```

```
Environmental impact
                                                Each has an "arity" of 3
                                     "arity"
     fun f(i,s,h)
                                                     ENVIRONMENT
   var sum = i + s<u> + h;</u>
                             fun add ( a, b, c ) { · · }
   return sum;
                                add (1, 2, 3);
```

f(1, 2, 3);

Batteries included

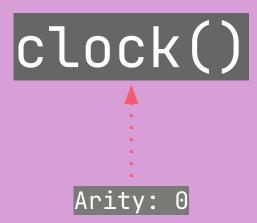
Lox

1 70

Batteries included

Lox

Python



```
abs(), dir(), filter(),
map(), min(), max(), pow(),
print(), sorted(), str()...

Arity: various
```