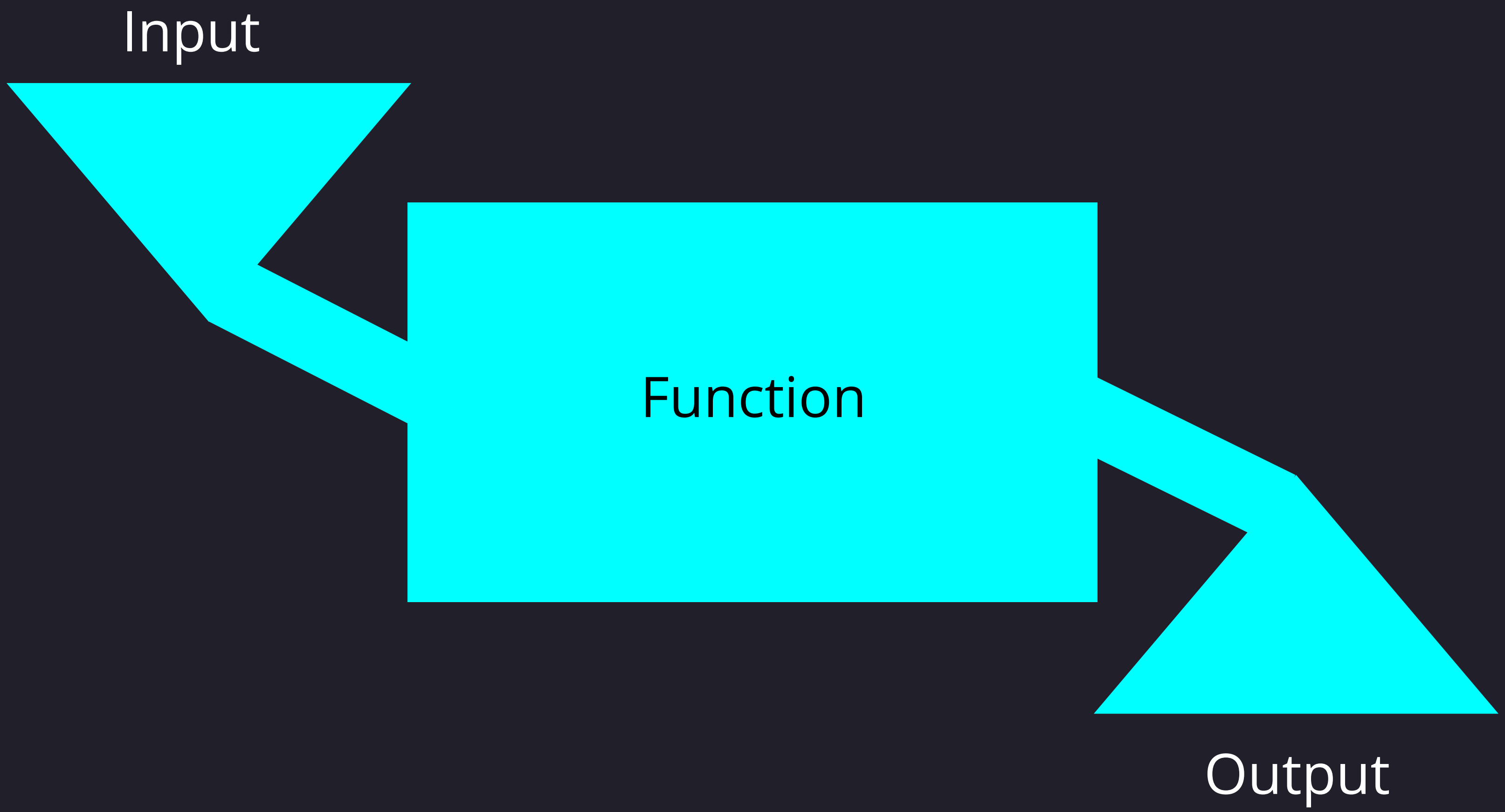
Functions

Functions



Functions

```
function sum(a, b) {
  return a + b;
}

function multiply(a, b) {
  return a * b;
}

sum(2, 3);
// => 5
multiply(2, 3);
// => 6
```

Declare by using "function" keyword

Call by using parens

Functions

```
function square(a) {
  return a * a;
}

square(2)
// => 4
square(square(2));
square(4)
// => 16

square(add(2, multiply(2, 3)));
square(add(2, 6));
square(8);
// => 64
```

Function calls are expressions

Can be combined in arbitrary ways

Functions

```
function repeatPhrase(phrase, times) {
  for (var i = 0; i < times; i++) {
    console.log(phrase);
  }
}

repeatPhrase('hei', 1);
// 'hei'

repeatPhrase('hallo', 4);
// 'hello'
// 'hello'
// 'hello'
// 'hello'
```

Functions

```
function sum(a, b) {
  var result = a + b;
  return result;
}
```

- Name (sum)
- Named parameters (a, b)
- Body of statements
- Return statement

Functions

Can be used to:

- Create reusable blocks of code
- Encapsulate computations and procedures (Abstraction)
- Structuring processes (procedures)

Much more later