

Objectives

- ▶ Students will be able to...
 - describe the purpose of inheritance
 - describe the look-up process
 - describe what's a prototype
 - use Object.create()
 - use constructors
 - use prototypes



▶ Syntax

// our file
var cat



▶ Syntax

// our file
var cat =



```
// our file
var cat = {};
```



```
// input
var cat = {};
cat
```



```
// input
var cat = {};
cat
```

```
// output

Object {}
```

```
// input
var cat = {};
cat
cat
```

```
// output
Object {}
```

```
// input
var cat = {};
cat
cat.name
```

```
// output
Object {}
```

```
// input
var cat = {};
cat
cat.name =
```

```
// output
Object {}
```

```
// input
var cat = {};
cat
cat.name = "Garfield";
cat
```

```
// output
Object {}
```

```
// input
var cat = {};
cat
cat.name = "Garfield";
cat
```

```
// output

Object {}

Object {name: "Garfield"}
```

```
// input
var cat = {};
cat
cat.name = "Garfield";
cat
cat
cat
```

```
// output
Object {}
Object {name: "Garfield"}
```

```
// input
var cat = {};
cat
cat.name = "Garfield";
cat
cat.name
```

```
// output
Object {}
Object {name: "Garfield"}
```

```
// input
var cat = {};
cat
cat.name = "Garfield";
cat
cat.name
```

```
// output

Object {}

Object {name: "Garfield"}

"Garfield"
```

```
// input
var cat = {};
cat
cat.name = "Garfield";
cat
cat.name
cat.name
```

```
// output

Object {}

Object {name: "Garfield"}

"Garfield"
```

```
// input
var cat = {};
cat
cat.name = "Garfield";
cat
cat.name
cat.name
cat.age
```

```
// output

Object {}

Object {name: "Garfield"}

"Garfield"
```

```
// input
var cat = {};
cat
cat.name = "Garfield";
cat
cat.name
cat.name
cat.age
```

```
// output

Object {}

Object {name: "Garfield"}

"Garfield"

undefined
```

```
// input
var cat = \{\};
cat
cat.name = "Garfield";
cat
cat.name
cat.age
cat
```

```
// output
Object {}
Object {name: "Garfield"}
"Garfield"
undefined
```

```
// input
var cat = {};
cat
cat.name = "Garfield";
cat
cat.name
cat.name
cat.age
cat.age
```

```
// output

Object {}

Object {name: "Garfield"}

"Garfield"

undefined
```

```
// input
var cat = {};
cat
cat.name = "Garfield";
cat
cat.name
cat.name
cat.age
cat.age =
```

```
// output

Object {}

Object {name: "Garfield"}

"Garfield"

undefined
```

```
// input
var cat = \{\};
cat
cat.name = "Garfield";
cat
cat.name
cat.age
cat.age = 7;
```

```
// output
Object {}
Object {name: "Garfield"}
"Garfield"
undefined
Object {name: "Garfield", age: 7}
```

```
// input
var cat = {};
cat
cat.name = "Garfield";
cat
cat.name
cat.name
cat.age
cat.age = 7;
cat
```

```
// output

Object {}

Object {name: "Garfield"}

"Garfield"

undefined

Object {name: "Garfield", age: 7}
```

```
// input
var cat = \{\};
cat
cat.name = "Garfield";
cat
cat.name
cat.age
cat.age = 7;
cat.constructor
```

```
// output
Object {}
Object {name: "Garfield"}
"Garfield"
undefined
Object {name: "Garfield", age: 7}
```

```
// input
var cat = {};
cat
cat.name = "Garfield";
cat
cat.name
cat.name
cat.age
cat.age = 7;
cat.constructor
```

```
// output

Object {}

Object {name: "Garfield"}
    "Garfield"
    undefined
    Object {name: "Garfield", age: 7}
    undefined
```

```
// input
var cat = {};
cat
cat.name = "Garfield";
cat
cat.name
cat.name
cat.age
cat.age = 7;
cat.constructor
```

```
// output

Object {}

Object {name: "Garfield"}

"Garfield"

undefined

Object {name: "Garfield", age: 7}

Object {}
```



```
// input
var cat = {};
cat
cat.name = "Garfield";
cat
cat.name
cat.name
cat.age
cat.age = 7;
cat.constructor
```

```
// output

Object {}

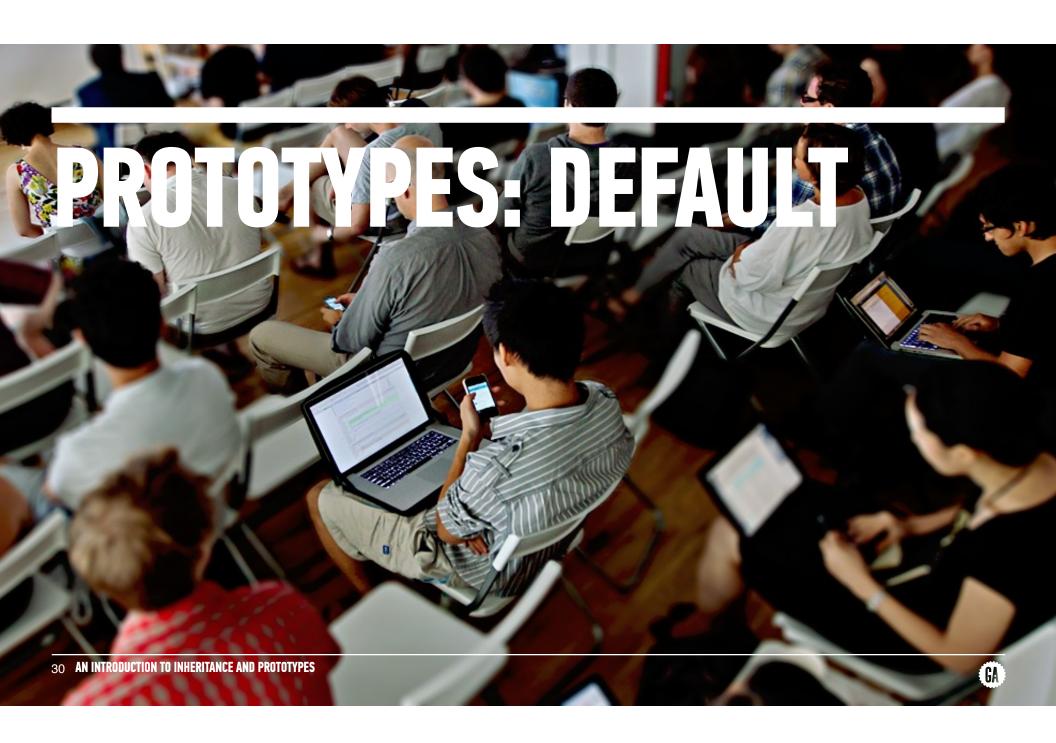
Object {name: "Garfield"}

"Garfield"

undefined

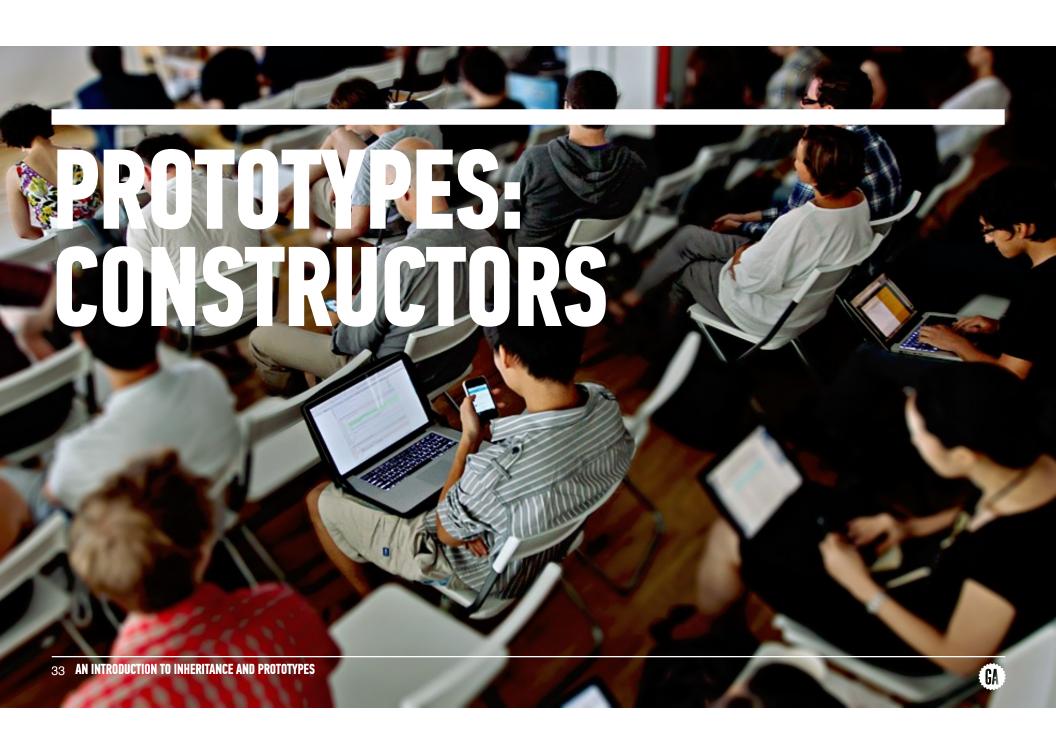
Object {name: "Garfield", age: 7}

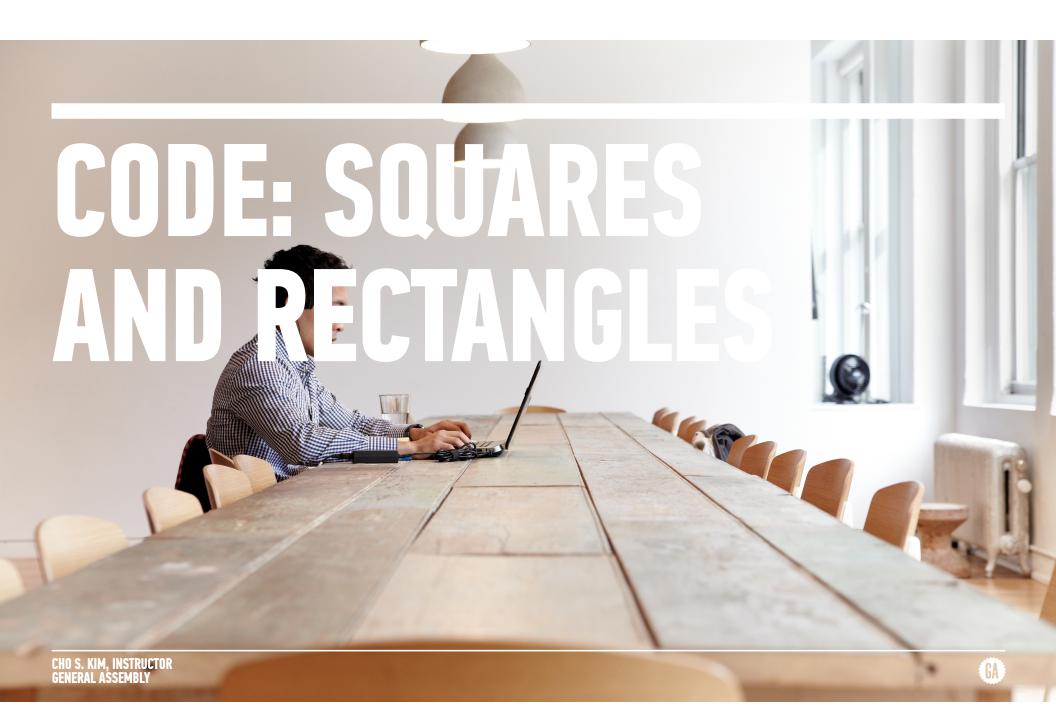
Object {}
```











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 - describe the look-up process
 - describe what's a prototype
 - use Object.create()
 - use constructors
 - use prototypes

THANK YOU.

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