Getters and Setters

Objectives

- Define the two types of properties.
- Explain what a getter and a setter are.
- Implement a getter and a setter.
- Explain good reasons for using getters and setters.

Types of Properties

Data Properties

Accessor Properties

Accessor properties don't contain a value but instead define a function to call when the property is read (called a getter) and a function to call when the property is written to (called a setter).

This example adds logging behaivor to the property.

```javascript
var person1 = {
    _name: "Mat",
    get name() {
        console.log("Reading name");
        return this._name;
    },
    set name(value) {
        console.log("Setting name to %s", value);
        this._name = value;
    }
};
```

Accessor properties only require either a getter or a setter, but they can have both.

Accessor properties are most useful when you want the assignment of a value to trigger some sort of behaivor, or when reading a value requires the calculation of the desired return value.