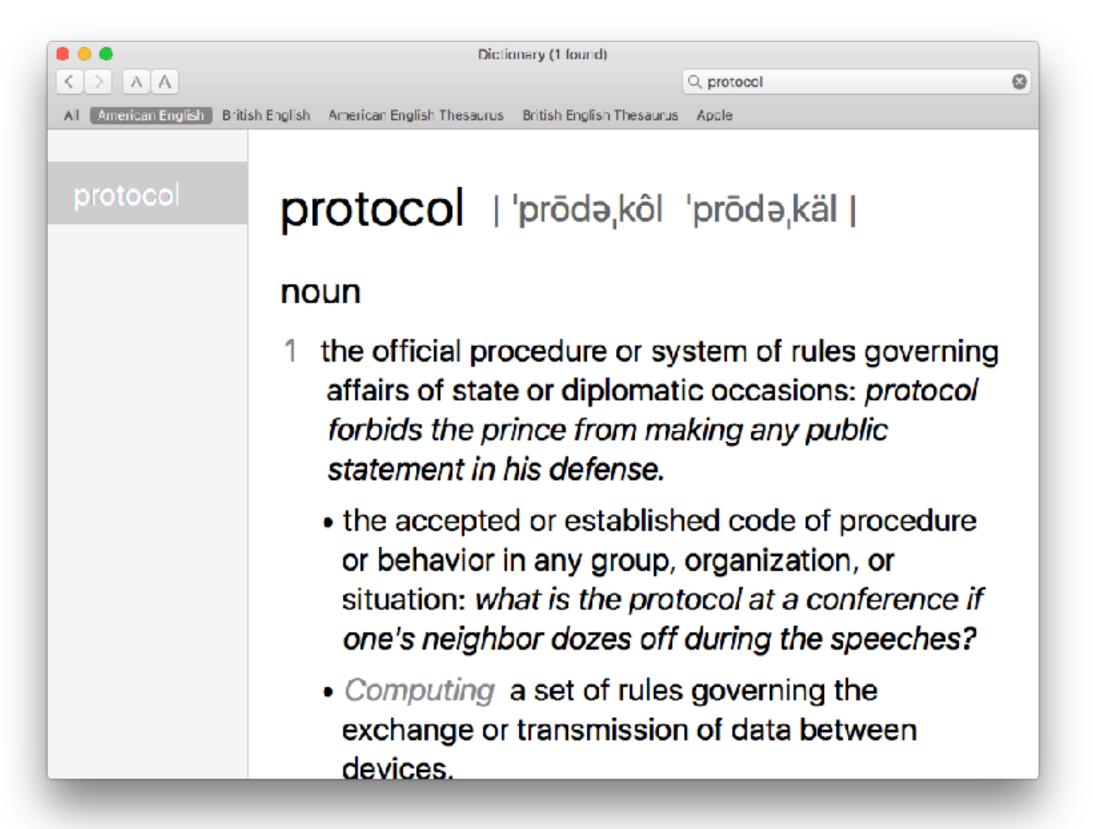
# Protocol

A set of rules or code of behavior



```
protocol MyProtocol {
    // what methods?
    // what properties?
```

- **◄** Each protocol has a name

◆ A list of properties
 (name, type, get/set)

## Protocol Usage

#### **General Purpose**

Creating Collections,
Comparing Instances,
Converting, Sorting,
Debugging

#### App-specific

Loading Data, Saving Data, Spellchecking, Resizing Uls

```
class MyNewClass: SomeSuperClass, SomeProtocol, OtherProtocol {
    ...
}
```

# Inheritance and/or Protocol Adoption

Swift classes allow single class inheritance Swift classes, structs and enums allow multiple protocols

# Creating Errors

Some languages have predefined error types.

```
Error myError = new Error();
myError.description = "Connection failure";
myError.priority = 1;
```

## Creating Errors

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```
Error myError = new Error();
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myError.priority = 1;
```

### Creating Errors

Some languages have predefined error types. Swift does not.

```
struct SomeKindOfError {
    // whatever you need...
}
```

### Swift Errors

Can be created from any type

```
class SomeKindOfError {
    // whatever you need...
}
```

### Swift Errors

Can be created from any type

```
enum SomeKindOfError {
   // whatever you need...
}
```

### Swift Errors

Can be created from any type