# Inheritance Lab

One of the great things that JavaScript allows is for us to extend objects on the fly by changing their prototype – including built-in functions like Object, Number, Array, and Window.  (Boom! Take that, Java!)  Let's take advantage of prototyping in this lab.

## The idea

Someone has come up with the bright idea of attaching roman numeral conversions to all <u>Number</u> and <u>String</u> objects.  We're going to try to make something like this work:

```
var x = (42).toRomanNumeral();  //Parentheses help the JS engine to parse
```

and

```
var y = "XLII".toDecimal();
```

Some hints
- Before your tests run, you're going to add to "String.prototype" and "Number.prototype"
- You'll want to add functions to each of those prototypes.  One will be called toRomanNumeral. The other will be called toDecimal.

## Your goal

Your mission (should you choose to accept it) is to make that work.  Please continue to work with your pair programming partner, writing a failing test, having your partner make it pass, then refactor it, then write a failing test for you.