

# 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 Number and String 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.