

Regular Expression Assignment

Goal: Learn the basic syntax of regular expressions by building expressions for three small test cases.

Example from class:

```
^((\d{3}|\(\d{3}\))- \d{3}-\d{4})|((\d{3}|\(\d{3}\))\.\d{3}\.\d{4})$
```

Test your regular expressions at:

<http://derekslager.com/blog/posts/2007/09/a-better-dotnet-regular-expression-tester.ashx>

Regular Expressions to Formulate:

1. Match a zip code. Both 5 and 9 digit zip codes should be recognized. Examples: 72143 and 72143-0764 . (6 points)
2. Match a first, middle and last name separated by single spaces. For example, "Elijah Samuel Steil". These will be three word combinations. Limit each of the three words to 20 characters. (6 points)
3. Match a date in the format Month/Day/Year. Your expression should allow for months and dates with one digit to be preceded by a 0, for example 01/07/2014. This date should also be accepted as 1/7/2014. Your expression should allow for the year to be entered as either 2 or 4 digits. You are not required to verify that the date is valid otherwise (no day or month validation). (8 points)
4. For 10 bonus points you can verify that the date from question #3 is a valid date (with the exception of leap years).

Submit the solutions as a text file on easel.