Lecture 28: Reg Ex Problems

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Write a regular expression to match a hexadecimal color value in a piece of text. A hexadecimal color value is a 6 character sequence where each character is a hexadecimal digit (i.e. between 0 and f) preceded by an optional #. For example #ff34d5 is valid but #h56732 is not. Make sure to group the actual hex number for ease-of-use.

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#?({0-9a-f}{6})

IP addresses are strings of four numbers, delimited by a period, where each number is in the range [0, 255]. For example, the IP address of this computer is 137.165.206.66. The IP address for the Google Domain Name Server is 8.8.8.8, which can also be written as 8.08.008.8. Write a regular expression to check if some text is exactly an IP address. That is, do IP address validation.

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^(25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?\.){3}(25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)\$

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^(25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?\.){3}(25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)\$

And here's a way to programmatically create the regular expression:

```
ips = []
for i in range(256):
    if (i < 10):
        ips.append(str(i).zfill(2))
    if (i < 100):
            ips.append(str(i).zfill(3))
        ips.append(str(i))</pre>
```

regexips ="^(({0})\\.){{3}}({0})\$".format("|".join(num for num in ips))

Write a regular expression to check whether some given text is a *valid* email address. A valid email address may contain the characters ., %, +, and –. Suppose, incorrectly, that all email addresses must end with a a 2-4 character string.

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^[a-zA-ZO-9._%+-]+@[a-zA-ZO-9.-]+\.[a-zA-Z]{2,4}\$