PAGE: *CNOT A
Cowese Name: Data Cleaning in Python: Advanced
Mission Name: Regular Expression Basics
The my cost of esson sasta
* Example of Regular Expression: (.+)://([\w\.]+)/?(.)*)
(Olora collisting)
* why to use them?
- was grant of
i) Save's time.
ii) Faster to execute and
iii) used by modern programming languages and detabases.
m decrease stantage and made and dance
* Python has a regular expression module built-in
Module name:- re
d Erchloso = eq
* search() function of re:
\$03 c 20 20 20 20 20 20 20 20 20 20 20 20 20
import re pattern
m= re.seauch ("and", "hand").
If match found, returns a match object else returns None
* Sef!- any of mis or b
sel start set end
sel start ser ena
the Carry and in the state of t
Senies. str. contains 1) - used to test whether a corrier of
strings match a particular regex patter
Eg:- pattern = "[Pp]ython"
titles = hn ["title"]
python-mentions = titles.str.contains (pattern) sum ()
print (python mentions)
pant Chymon mentions

\* Printing titles with word Python/python present in it ?>

py-titles = titles [titles . str. contains ("[Pp] ython")]

## Quantifiers:

Specifies the type of previous pattern required.

chart!-

Quantifier	Pattern	Equivalent Explanation
Numeric 1	a { 3}	a, 3 times
,,	a { 3,5}	- a,3,40,5 times
"	a \ , 3}	a, 0,1,2 0,3 himes
77	a \$8, }	- a, 8 or more times
Zero or more	a+	a \$0, }
One or more	at	a \$1, }
optional	a ?	a{0,13 a, 0 or 1 time.

Eg: email-bool = titles.str.contains ("e-?mail")

email-count = email-bool.sum()

email-titles = titles [email-bool]

## Character Classes

\[pdf\] - will select [pdf].

*			-
-	Character Class	Pattern Explanation	_
-	set	Efud] Either forward	
-	Range	[a-e] Any of the character a, b, c, do	re
	29/11/2011	[0-3] Any of the character, 0,1,2 or 3.	S 10 22 10 10
***	7)	[A-2] Any Upper case Letter	
	Set + Range	[A-7-q-z] Any Uppercase /weescase lett	ear

	Character Class	Pattern	Explanation			
	Digit	\d	Any digit character			
	Word	\ω	Any digit, upper/lower case character or underscore.			
	white space	\s	Any space, tab or line break.			
	Dot	0	Any character except newline.			
	Eg:- pattern = "\[\w+\]'					
	*A capture group can be created by enclosing a regular expression in parenthesis.					
	II .	x"(\[\w+\	·			
4	Negative Character Classes:-					
	Character cla Negative Sel-		V			
	Negative Digit Negative Won	d \W	Any character except digit chan.  Any character except word char.  Any character except word char.  Any character except whitespace  characters.			
	Eg!- regex= r"[JjJava[15s]"  Word boundary anchor:- \b.  Sg:- pattern= r"\b Java\b"					
	flags:- re.I	-> Ignore Case				

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