## Regular expression to stop at first match [duplicate]



440

This question already has an answer here:

My regex is matching too much. How do I make it stop? 5 answers



My regex pattern looks something like



<xxxx location="file path/level1/level2" xxxx some="xxx">

111

I am only interested in the part in quotes assigned to location. Shouldn't it be as easy as below without the greedy switch?

```
/.*location="(.*)".*/
```

Does not seem to work.

regex

edited Dec 1 '12 at 18:43

community wiki 3 revs, 2 users 75% publicRavi

marked as duplicate by Wiktor Stribiżew

regex Feb 18 at 9:45

This question has been asked before and already has an answer. If those answers do not fully address your question, please ask a new question.

What's your source, is it HTML or xml or something? - Oskar Kjellin Mar 23 '10 at 20:39

18 Why is this a community wiki? It's a real question. Too late now. – Ahmad Mageed Mar 23 '10 at 20:41

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3 Not if all you want is to scan for simple attributes. Regex is appropriate and faster. – codenheim Mar 23 '10 at 20:44

## 6 Answers



You need to make your regular expression non-greedy, because by default, "(.\*)" will match all of "file path/level1/level2" xxx some="xxx".



Instead you can make your dot-star non-greedy, which will make it match as few characters as possible:



/location="(.\*?)"/



Adding a ? on a quantifier (?, \* or +) makes it non-greedy.

answered Mar 23 '10 at 20:40

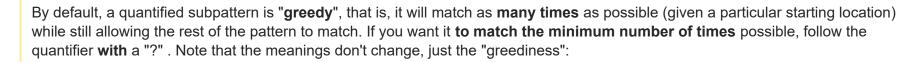
community wiki
Daniel Vandersluis

- 28 FWIW, incase your using VIM, this regex needs to be a little different: instead of .\*? it's .\{-} for a non-greedy match. SooDesuNe Mar 24 '11 at 0:21
- 39 Thanks Daniel. "Adding a ? on a quantifier (?, \* or +) makes it non-greedy." is helpful tip for me. PhatHV Aug 20 '14 at 2:30
- 9 The ? describes my confusion in trying to figure this out. How appropriate. Robbie Smith Apr 18 '16 at 17:38

I believe you can say 'lazy' instead of 'non-greedy' – Manticore Oct 19 '16 at 20:15

Because you are using quantified subpattern and as descried in Perl Doc,









Thus, to allow your *quantified* pattern to make minimum match, follow it by ? :

```
/location="(.*?)"/
```

answered Nov 20 '18 at 10:26

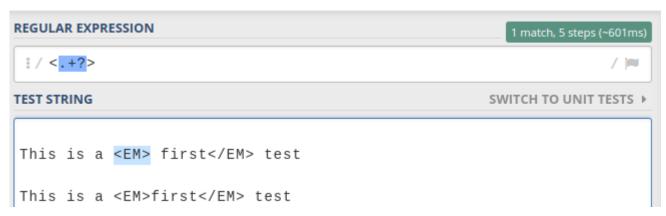
community wiki Mohammad Kanan



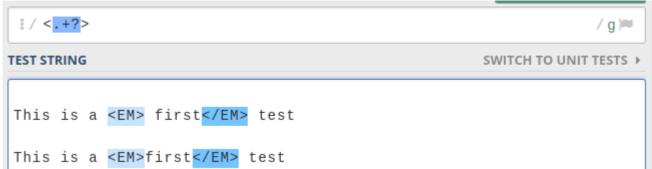
Use of Lazy quantifiers ? with no global flag is the answer.

Eg,





If you had global flag /g then, it would have matched all the lowest length matches as below.





How about

29

.\*location="([^"]\*)".\*



This avoids the unlimited search with .\* and will match exactly to the first quote.

edited Feb 21 '13 at 8:55

community wiki 2 revs, 2 users 89% user193690

Due to discrepancies in grep the above should be the preferred pattern if portability is a concern. – Josh Habdas Aug 13 '18 at 5:44 🖍



location="(.\*)" will match from the "after location= until the "after some="xxx unless you make it non-greedy. So you either need .\*? (i.e. make it non-greedy) or better replace .\* with [^"]\*.

47

answered Mar 23 '10 at 20:40

community wiki sepp2k



- 7 +1, [^"]\*" is clearer than .\*?" any day Kip Mar 23 '10 at 20:47
- 3 [^"]\* is also probably faster with most regex engines because it does not need to lookup the pattern after the current pattern. Jean Vincent Jul 21 '12 at 10:34
- 1 @Kip: You're probably right, but the .\*? notation is more general than [^"]\* Bondax Sep 2 '15 at 7:45 /

how about if I want to include the delimiter character using [^"]\* - Frohlich Nov 28 '16 at 11:46

not at all, if you don't know what ^ and [] mean here. Most people will understand .\* - Vincent Gerris Jun 4 at 14:37 🖍

Lise non-greedy matching if your engine supports it. Add the 2 inside the capture



answered Mar 23 '10 at 20:40

community wiki codenheim