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Regular Expression for password validation

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can any one help me in creating a regular expression for password validation.

10



The Condition is "Password must contain 8 characters and at least one number, one letter and one unique character such as `!#$%&? "`"



7

javascript regex

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edited Mar 3 '10 at 11:56



Alan Moore

36.4k 3 35 66

asked Mar 3 '10 at 9:29



Jasim

1,757 10 37 63

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asked 3 years ago

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```
^.*(?=\{8,\})(?=.*[a-zA-Z])(?=.*\d)(?=.*[!#$%&? "]).*$
```



```
---  
^.*           : Start  
(?=. {8,})    : Length  
(?=. *[a-zA-Z]) : Letters  
(?=. *\d)      : Digits  
(?=. * [!#$%&? "]) : Special characters  
.*$           : End
```

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answered Mar 3 '10 at 9:35



Macmade

23.9k ●6 ●47 ●71

+1 for explanation - tested with a few examples and works at regular-expressions.info/javascriptexample.html

– [amelvin](#) Mar 3 '10 at 9:44

i tired with 'acf23!&7h' and its not validating it – [Jasim](#) Mar 3 '10 at 9:56

Don't forget to escape necessary characters... – [Macmade](#) Mar 3 '10 at 9:57

i didn't got that?? could you be more specific?? – [Jasim](#) Mar 3 '10 at 10:03

1 You don't need to put .* at the beginning and end of the match. It's pointless, and will cause significantly worse run times (especially in the case of invalid matches). – [Tom Lord](#) Aug 12 '13 at 8:48

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You can achieve each of the individual requirements easily enough (e.g. minimum 8 characters: `. {8,}` will match 8 or more characters).



To combine them you can use "positive lookahead" to apply multiple sub-expressions to the same content. Something like `(?=. *\d. *) . {8,}` to match one (or more) digits with lookahead, and 8 or more characters.

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So:

```
(?=.*\d.*) (?=.*[a-zA-Z].*) (?=.*[!#\$\%\&\?].*) .{8,}
```

Remembering to escape meta-characters.

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answered Mar 3 '10 at 9:35



[Richard](#)

48.7k ● 5 ● 64 ● 117

You have a few pointless "."s in there. You could just use: `(?=.*\d)(?=.*[a-zA-Z])(?=.*[!#\$\%\&\?]).{8,}` –

[Tom Lord](#) Aug 12 '13 at 8:51

@TomLord I would want to test that... but you may well be right (reason: of course each positive lookahead only needs to confirm as far as one instance of each type of character). – [Richard](#) Aug 19 '13 at 5:11




Yes, and the main reason I pointed this out is that if your regex does NOT match then it may be made vastly more inefficient to determine this if you include unnecessary "."s in there! – [Tom Lord](#) Aug 23 '13 at 9:22

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```
((?=.*\d) (?=.*[a-z]) (?=.*[A-Z]) (?=.*[\W]) .{6,20})
```

Description of above Regular Expression:

```
(
    # Start of group
    (?=.*\d)      # must contains one digit from 0-9
    (?=.*[a-z])   # must contains one lowercase characters
    (?=.*[\W])    # must contains at least one special character
    .            # match anything with previous condition checking
    {8,20}        # length at least 8 characters and maximum of 20
)
# End of group
```

"/W" will increase the range of characters that can be used for password and it can be more safe.

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answered Aug 12 '13 at 7:20



[Rohit Dubey](#)

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