

Regular expression

RegExp物件類別

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- ▶ 用來描述字串應有的樣式
- ▶ 例如：字串的開頭必須以A或a字元開頭

▶ regExp : /^a/ i

 ↑ ↑

pattern modifier

建立RegExp物件

- ▶ /pattern/modifier

- ▶ var re = /^a/i ;

- ▶ new RegExp(pattern, modifier)

- ▶ var re = new RegExp("^a","i");

測試字串是否符合所要的樣式

- ▶ `RegExp`物件.`test`(字串)

- ▶ 範例一

- ```
var re = /^a/;
document.write(re.test("ABC"));
```

- ▶ 結果：false

- ▶ 範例二

- ```
var re = /^a/i;  
document.write(re.test("ABC"));
```

- ▶ 結果：true

pattern 與 modifier

- ▶ 請參閱w3schools
 - ▶ http://www.w3schools.com/jsref/jsref_obj_regexp.asp

pattern 與 modifier

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https://www.w3schools.com/js/js_regexp.asp

Regular Expression Modifiers

Modifiers can be used to perform case-insensitive more global searches:

| Modifier | Description |
|----------|--|
| i | Perform case-insensitive matching |
| g | Perform a global match (find all matches rather than stopping after the first match) |
| m | Perform multiline matching |

Regular Expression Patterns

Brackets are used to find a range of characters:

| Expression | Description |
|------------|---|
| [abc] | Find any of the characters between the brackets |
| [0-9] | Find any of the digits between the brackets |
| (x y) | Find any of the alternatives separated with |

RegExp物件測試案例--實例操作

▶ 實作

▶ 身份證字號的基本檢查

```
<script>
var idNo = "a123456788";
var re = /^[a-z|A-Z][12][0-9]{8}/;
if(re.test( idNo ) == true)
    document.write("正確");
else
    document.write("錯誤");
</script>
</body>
</html>
```

1. 下列哪個方法可以建立一個RegExp物件？

單選

50分

pattern指所要設定的字串樣式

☐ A RegExp("pattern")

☐ B "pattern"

☐ C /pattern/

☐ D /pattern,modifier/

2. 下列哪個方法可以建立一個RegExp物件，該物件中，設定所要的字串樣式為第一個是"a"或"b"或"c"開頭的字串，且大小寫均可

多選
50分

☐ A /^[abc]/ i

☐ B /^[a|b|c]/g

☐ C /^[a|b|c]/ i

☐ D /^[a-c]/ g