| **Operator** | **Purpose** |
| --- | --- |
| **. (period)** | Match any single character |
| **^ (caret)** | Match the empty string that occurs at the beginning of a line or string |
| **$(dollarsign)** | Match the empty string that occurs at the end of a line |
| **A** | Match an uppercase letter *A* |
| **a** | Match a lowercase letter *a* |
| **\d** | Match any single digit |
| **\D** | Match any single non-digit character |
| **\w** | Match any single alphanumeric character; a synonym is [:alnum:] |
| **[A-E]** | Match any of uppercase *A, B, C, D,* or *E* |
| **[^A-E]** | Match any character **except** uppercase *A, B, C, D,* or *E* |
| **X?** | Match none or one capital letter *X* |
| **X\*** | Match zero or more capital *X*es |
| **X+** | Match one or more capital *X*es |
| **X{n}** | Match exactly *n* capital *X*es |
| **X{n,m}** | Match at least *n* and no more than *m* capital *X*es; if you omit *m,* the expression tries to match at least *nX*es |
| **(abc|def)+** | Match a sequence of at least one *abc* and *def;abc* and *def* would match |

**Rules to optimization of website performance:**

1. **Too much AJAX and external Javascript may kill your page performance:**

If you really need some Javascript libraries in your pages, but those libraries are not used before the page ends loading, you can try pushing the Javascript inclusion tags to the bottom of your page.  
Alternatively, you can delay the load of Javascript files using the "defer" attribute of the HTML script tag like this:  
<script src="some\_javascript\_file.js" defer="defer"></script>