

Wildcards

Anything

```
.
```

Matches literally any character

Group (Either-or)

```
(a|b|c)
```

Matches any one of the sub-expressions

Set

```
[abc]
```

Matches any character within square brackets

Range

```
[a-z] [b-d] [0-9] [A-Z]
```

Matches any character within a given range

Multiple Ranges

```
[A-Za-z]
```

More than one range can appear within a set!

Reversed Sets

```
[^a-z]
```

Matches anything *except* characters in the set

Exceptions

```
[.] [\\^] [abc^] [\\-] [abc-]
```

Some characters need to be specified differently

Anchors

Start

```
^ice
```

Matches when input *starts* with this expression

End

```
ice$
```

Matches when input *ends* with this expression

Advanced Grouping

Ignoring Groups

```
(?:a|b|c)
```

Matches, but excludes the group from its results

Naming Groups

```
(?<name>a|b|c)
```

Gives the group a name in the match results

Look-ahead

```
(?=a|b|c)
```

Match group after the expression, without capturing it

Look-behind

```
(?<=a|b|c)
```

Match group before the expression, without capturing it

Quantifiers

Zero or more

```
.*
```

Match the preceding expression zero or more times

Zero or one

```
.?
```

Match the preceding expression zero or one time

One or more

```
.+
```

Match the preceding expression at least once

Exactly This Many

```
.{6}
```

Match the preceding expression exactly 6 times

Between This Many

```
.{1,4}
```

Match the preceding expression between 1 and 4 times

At Least This Many

```
.{3,}
```

Matches the preceding expression at least 3 times

Lazy Matching

```
.*?
```

Matches as few characters as possible