

41.1.4 CHARACTER CLASSES

```
[amy]    Match 'a', 'm' or 'y'
[f-j]    Dash specifies "range"
[f-j-]   Dash escaped or at start or end means 'dash'
[^f-j]   Caret indicates "match any character _except_ these"
```

The following sequences work within or without a character class. The first six are locale aware, all are Unicode aware. The default character class equivalent are given. See *perllocale* and *perlunicode* for details.

```
\d      A digit                [0-9]
\D      A nondigit            [^0-9]
\w      A word character       [a-zA-Z0-9_]
\W      A non-word character   [^a-zA-Z0-9_]
\s      A whitespace character [ \t\n\r\f]
\S      A non-whitespace character [^ \t\n\r\f]

\C      Match a byte (with Unicode, '.' matches a character)
\pP     Match P-named (Unicode) property
\p{...} Match Unicode property with long name
\PP     Match non-P
\P{...} Match lack of Unicode property with long name
\X      Match extended unicode sequence
```

POSIX character classes and their Unicode and Perl equivalents:

alnum	IsAlnum	Alphanumeric
alpha	IsAlpha	Alphabetic
ascii	IsASCII	Any ASCII char
blank	IsSpace [\t]	Horizontal whitespace (GNU extension)
cntrl	IsCntrl	Control characters
digit	IsDigit \d	Digits
graph	IsGraph	Alphanumeric and punctuation
lower	IsLower	Lowercase chars (locale and Unicode aware)
print	IsPrint	Alphanumeric, punct, and space
punct	IsPunct	Punctuation
space	IsSpace [\s\ck]	Whitespace
	IsSpacePerl \s	Perl's whitespace definition
upper	IsUpper	Uppercase chars (locale and Unicode aware)
word	IsWord \w	Alphanumeric plus _ (Perl extension)
xdigit	IsXDigit [0-9A-Fa-f]	Hexadecimal digit

Within a character class:

POSIX	traditional	Unicode
[:digit:]	\d	\p{IsDigit}
[:^digit:]	\D	\P{IsDigit}

41.1.5 ANCHORS

All are zero-width assertions.

```
^ Match string start (or line, if /m is used)
$ Match string end (or line, if /m is used) or before newline
\b Match word boundary (between \w and \W)
\B Match except at word boundary (between \w and \w or \W and \W)
\A Match string start (regardless of /m)
\Z Match string end (before optional newline)
\z Match absolute string end
\G Match where previous m//g left off
```