Table of Contents

char

This package provides a set of utilities for working with characters, focusing on character classification and validation.

Basic ASCII Classification

Functions for determining if a character belongs to various ASCII categories.

```
1
2    test "ascii classification" {
3
4       inspect('A'.is_ascii(), content="true")
5       inspect('?'.is_ascii(), content="false")
6
7
8       inspect('Z'.is_ascii_alphabetic(), content="true")
9       inspect('1'.is_ascii_alphabetic(), content="false")
10
11
12      inspect('A'.is_ascii_uppercase(), content="true")
13      inspect('a'.is_ascii_uppercase(), content="false")
14      inspect('a'.is_ascii_lowercase(), content="true")
15      inspect('A'.is_ascii_lowercase(), content="false")
16   }
```

Number Classification

Functions for identifying digits in different number bases.

```
1
2    test "number classification" {
3
4       inspect('5'.is_ascii_digit(), content="true")
5       inspect('x'.is_ascii_digit(), content="false")
6
7
8       inspect('F'.is_ascii_hexdigit(), content="true")
9       inspect('G'.is_ascii_hexdigit(), content="false")
10
11
12      inspect('7'.is_ascii_octdigit(), content="true")
13      inspect('8'.is_ascii_octdigit(), content="false")
14
15
16      inspect('5'.is_digit(6U), content="true")
17      inspect('6'.is_digit(6U), content="false")
18
19
20      inspect('1'.is_numeric(), content="true")
21      inspect('A'.is_numeric(), content="false")
22   }
```

Special Characters

Functions for identifying whitespace, control characters and other special characters.

```
1
2    test "special characters" {
3
4        inspect(' '.is_ascii_whitespace(), content="true")
5        inspect('\n'.is_whitespace(), content="true")
6
7
8        inspect('\u0000'.is_ascii_control(), content="true")
9        inspect('\u007F'.is_control(), content="true")
10
11
12       inspect('!'.is_ascii_graphic(), content="true")
13       inspect(' '.is_ascii_graphic(), content="false")
14       inspect(','.is_ascii_punctuation(), content="true")
15   }
```

Method Style Usage

All character classification functions can also be called as methods directly on characters.

```
1
2    test "method style" {
3
4        let c = 'A'
5        inspect(c.is_ascii(), content="true")
6        inspect(c.is_ascii_alphabetic(), content="true")
7        inspect(c.is_ascii_uppercase(), content="true")
8
9
10       let d = '7'
11       inspect(d.is_ascii_digit(), content="true")
12       inspect(d.is_digit(8U), content="true")
13       inspect(d.is_ascii_hexdigit(), content="true")
14
15
16       let s = ' '
17       inspect(s.is_ascii_whitespace(), content="true")
18       inspect(s.is_whitespace(), content="true")
19   }
```