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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 }
```