

**strupper()** — Convert ASCII letter to uppercase (lowercase)

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## Description

`strupper(s)` returns *s*, converted to uppercase.

`strlower(s)` returns *s*, converted to lowercase.

`strproper(s)` returns a string with the first ASCII letter capitalized and any other ASCII letters capitalized that immediately follow characters that are not letters; all other letters are converted to lowercase.

When *s* is not a scalar, these functions return element-by-element results.

## Syntax

*string matrix* `strupper(string matrix s)`

*string matrix* `strlower(string matrix s)`

*string matrix* `strproper(string matrix s)`

## Remarks and examples

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`strproper("mR. joHn a. sMitH")` returns Mr. John A. Smith.

`strproper("jack o'reilly")` returns Jack O'Reilly.

`strproper("2-cent's worth")` returns 2-Cent'S Worth.

Use `ustrupper()` and `ustrlower()` to convert Unicode characters in a string to uppercase and lowercase.

## Conformability

`strupper(s)`, `strlower(s)`, `strproper(s)`:

*s*:  $r \times c$   
*result*:  $r \times c$

## Diagnostics

None.

## Also see

[M-5] [ustrupper\(\)](#) — Convert Unicode string to uppercase, lowercase, or titlecase

[M-4] [string](#) — String manipulation functions