Countdown Calculator

Measure a fixed UTC date/time difference or start a live countdown showing days, hours, minutes and seconds. Refreshes use the current device clock, so resuming after a pause or a background tab catches up to the deadline.

Formula: fixed difference = target - start; live remaining seconds = ceil(max(0, target - current clock) / 1000)

INPUTS AND EXAMPLE VALUES

Mode: duration; choices: duration (Fixed date/time difference), live (Live countdown to a UTC deadline)

Start date: 2026-01-01

Start time (UTC, HH:MM:SS): 00:00:00

End date: 2026-01-31

Target time (UTC, HH:MM:SS): 00:00:00

CHECK THE DEFAULT EXAMPLE

Remaining days: 30

Remaining hours: 720

Remaining minutes: 43,200

LIMITS AND CONVENTIONS

All entered times are UTC, not browser-local time; seconds are supported.

Pausing stops display refresh only, not the deadline. Reached deadlines show zero; closing the page stops the timer. Device-clock accuracy and browser throttling affect refresh timing.

Calendar-date inputs and calculated calendar dates must stay within years 0001-9999.

METHOD AND SOURCES

https://azhanmh.com/guides/tools/countdown-calculator

MDN - Date.UTC and calendar-date construction: https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Date/UTC

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Display precision is for reporting; keep unrounded values for later calculations. Verify units and conventions. This reference does not replace institution, employer or network rules.