

# Conditional Formatting in Excel: Highlighting Dates Within a Six- Month Range

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## RECOMMENDED CITATION

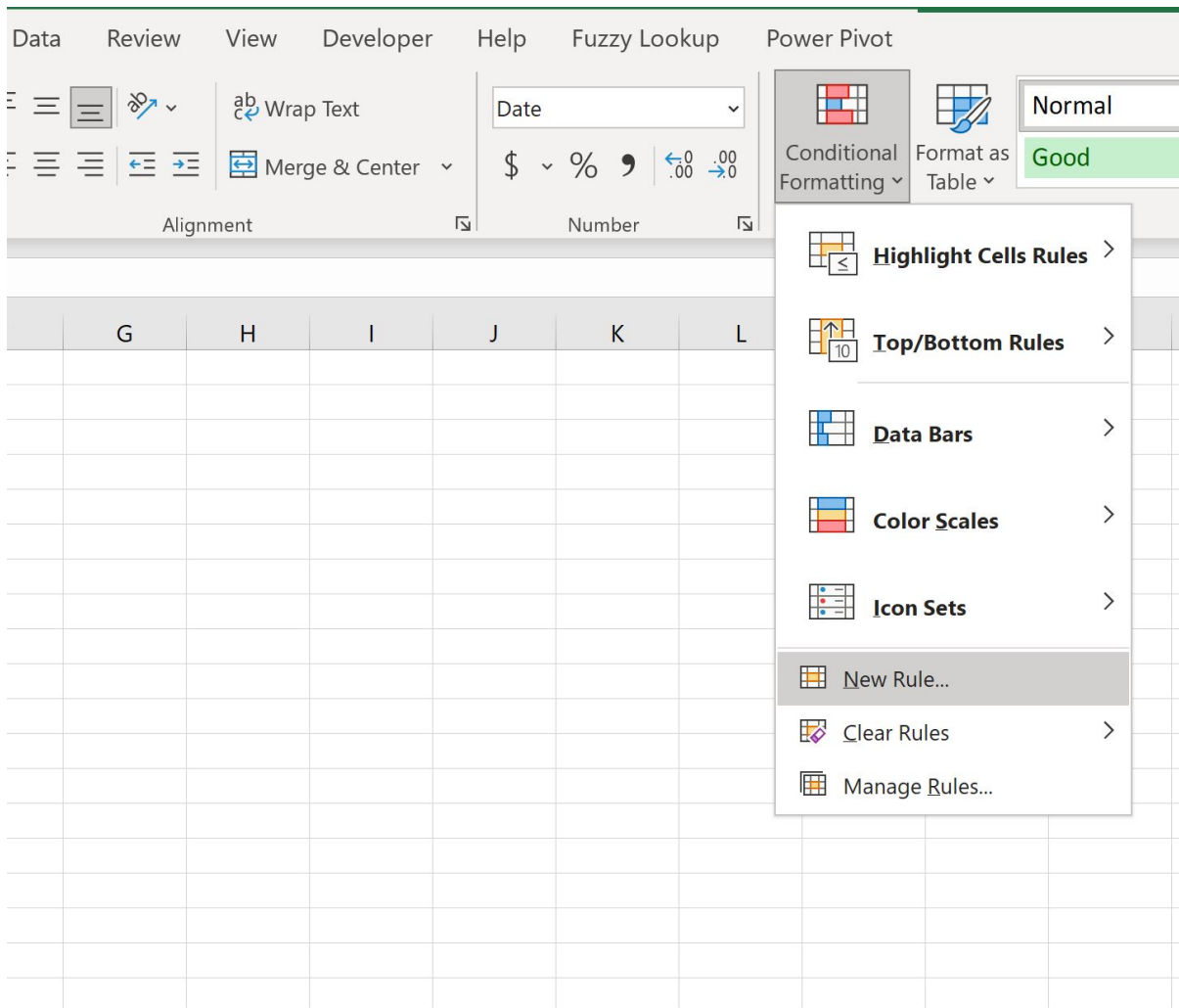
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## Introduction to Dynamic Date Highlighting in Excel

[Excel](#) stands as an indispensable tool for advanced **data management** and operational planning across various industries. A crucial capability for proactive decision-making is the ability to dynamically highlight specific records based on time-sensitive criteria. When dealing with extensive datasets that contain future deadlines, contract expiration dates, or projected milestones, quickly identifying items nearing completion is paramount for effective resource allocation and timely intervention. This specialized guide provides a detailed methodology for leveraging [Conditional Formatting](#) to automatically flag cells containing a date that falls within a specific, rolling time frame--specifically, within the next **six months** of the current date. This technique transforms static spreadsheet data into an actionable, visually intuitive dashboard.

To successfully implement this advanced technique, users must navigate to the **Conditional Formatting** dropdown menu, located within the **Home** tab of the Excel ribbon, and select the **New Rule** option. Standard rules, such as 'Greater Than' or 'Less Than', are insufficient for measuring a moving window of time. Instead, creating this dynamic alert system requires the construction of a custom formula. This formula must continuously compare the date value in the target cell against the system's constantly updated current date. This precise comparison logic is handled efficiently by combining several powerful built-in functions, ensuring that the applied formatting updates automatically every time the spreadsheet is opened or recalculated, maintaining real-time relevance.

The fundamental principle of this solution involves calculating the exact difference between today's date and the date specified in the cell, and subsequently applying the formatting if that difference falls below the designated threshold (in this case, six months). Achieving this requires meticulous formula construction, emphasizing the correct usage of date calculation functions. Specifically, we rely on the powerful, though often undocumented, [DATEDIF function](#). This function is perfectly suited for accurately measuring time intervals and returning the result in specific units, such as whole months or years, which is essential for setting a reliable, forward-looking criterion.



## Deconstructing the Core Formula Components

The custom formula required for establishing this dynamic formatting rule is `=DATEDIF(TODAY(), B2, "m") <=6`. Before this expression is applied across a dataset, it is critical to gain a clear understanding of how each individual component interacts to logically determine whether a specific cell should be highlighted. This formula is built upon three primary elements: the comparison function, the reference point for the current date, and the specific cell reference that defines the scope of the rule application.

The first vital component is the **TODAY function**. This function, entered simply as `TODAY()`, retrieves and returns the current calendar date based on the local system clock. Because `TODAY()` is classified as a volatile function, it compels Excel to recalculate its value every time the worksheet is refreshed, opened, or modified. This inherent volatility is the key factor that ensures the conditional formatting rule remains truly dynamic, constantly comparing the target dates against the most recent possible system date without requiring any manual adjustments.

The second and most powerful component for measuring the interval is the [DATEDIF function](#). Despite its utility, it is often hidden from the main function menus. Its standard structure is `DATEDIF(start_date, end_date, unit)`. In our specific context, `TODAY()` serves as the `start_date` (the beginning of the interval), and the cell reference, such as `B2`, represents the `end_date` (the milestone date). The unit argument, specified as `"m"`, instructs the function to calculate the time difference in complete months. Therefore, the output of `DATEDIF(TODAY(), B2, "m")` is the count of whole months remaining until the date recorded in cell `B2` is reached.

Finally, the logical operator `<=6` dictates the threshold for formatting. This condition mandates that the visual formatting should be applied only if the number of calculated months remaining is less than or equal to six. It is absolutely essential that the cell reference within the formula (e.g., `B2`) is an unanchored [relative reference](#). Even if the selection encompasses a wide range, such as `B2:B100`, Excel automatically adjusts `B2` to `B3`, `B4`, and subsequent cells as it applies the rule down the column. This relative referencing ensures that every single date within the selected range is compared individually against the current system date.

## Analyzing the Example Dataset

To effectively demonstrate the application of this conditional formatting technique, we will utilize a hypothetical dataset designed to track the projected retirement dates for various employees within a company. The primary objective is to create a visual mechanism that immediately flags all employees whose retirement is scheduled to occur within the critical six-month window, enabling management to proactively initiate necessary transition planning and knowledge transfer processes.

For this demonstration, our spreadsheet features a simple, two-column structure. Column A is designated for listing the names of the employees, while Column B contains their respective **retirement date**. This clear layout simplifies the application of the conditional rule to the date column.

	A	B	C	D	E
1	<b>Name</b>	<b>Retirement Date</b>			
2	Andy	7/30/2023			
3	Bob	8/15/2023			
4	Chad	10/19/2023			
5	Doug	10/22/2023			
6	Eric	1/4/2026			
7	Frank	1/19/2027			
8	Greg	12/12/2023			
9	Henry	1/5/2029			
10	Isaac	6/15/2034			
11	John	6/12/2024			
12	Kendall	1/1/2024			
13	Luke	1/17/2025			
14					
15					
16					
17					
18					

In order to establish a baseline for our calculation, we will set the current date of execution as **7/28/2023**. Based on this starting point, any retirement date that falls between 7/28/2023 and 1/28/2024 (inclusive of the entire six-month period) should trigger the custom conditional formatting rule, resulting in a visual highlight.

A preliminary manual review of the dates allows us to anticipate the outcome: dates such as 10/1/2023 and 12/15/2023 clearly fall within the defined six-month horizon and are expected to be flagged. Conversely, dates scheduled for the later part of 2024 or 2025 will correctly remain unformatted. The genuine utility of the formula, however, lies in its capacity to instantly and accurately automate this comparison across potentially hundreds or thousands of rows, eliminating the need for tedious manual checks.

## Step-by-Step Execution of the Conditional Formatting Rule

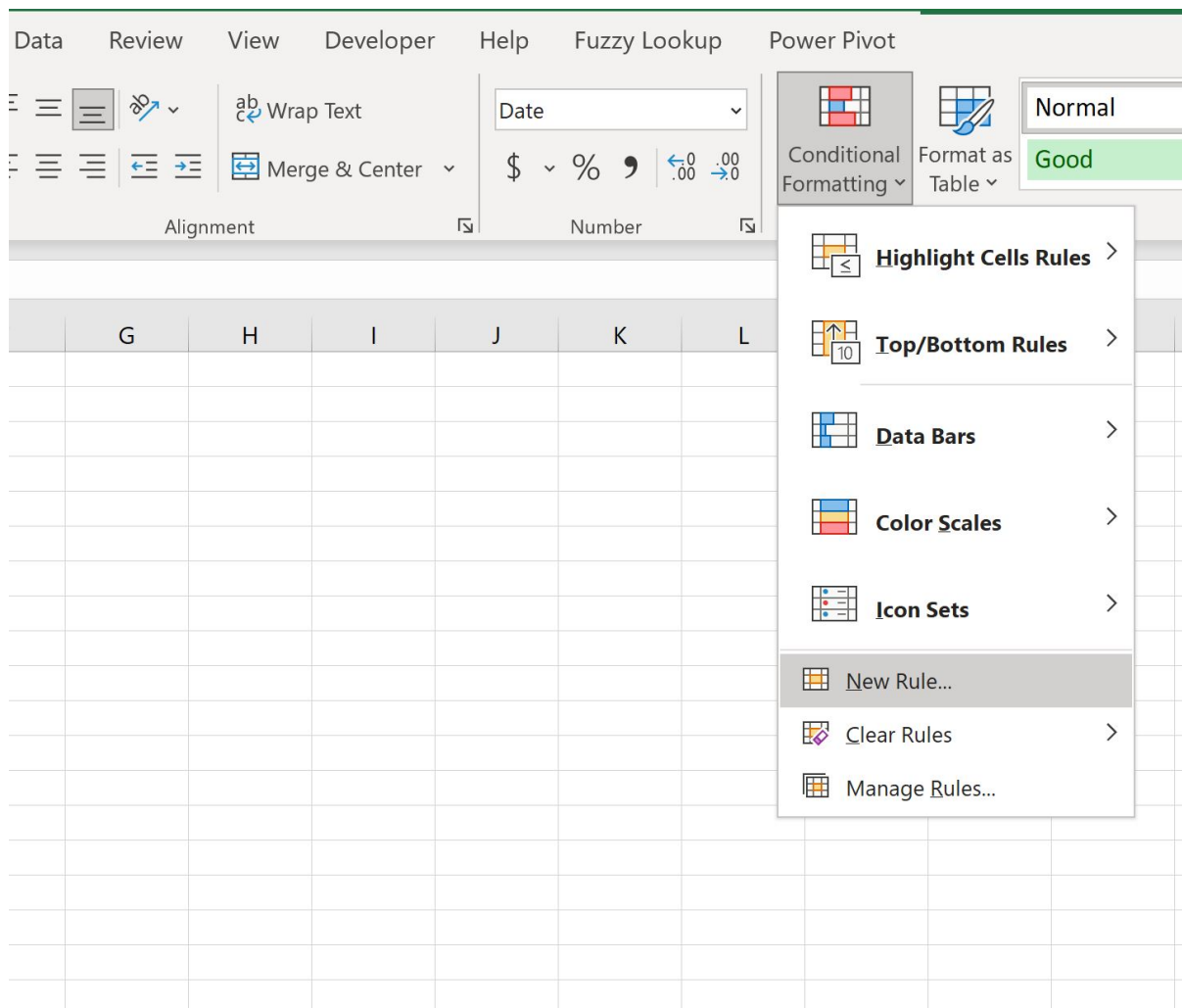
Applying the custom formula requires a structured, multi-step process that starts with the selection of the relevant data range and culminates in defining the specific visual output. Following these precise steps is essential to ensure that the rule is correctly interpreted and applied across the entirety of your target data.

**Select the Target Range:** The initial step requires highlighting the specific range of cells that

contain the dates you intend to format. In our employee example, this involves selecting cells **B2:B13**. It is imperative to select only the data cells and exclude the header row (B1), as the formula will use the first cell of the selection (B2) as the starting point for its relative calculations against the current date.

**Access the Conditional Formatting Menu:** Proceed by navigating to the **Home** tab on the Excel ribbon. Click the **Conditional Formatting** dropdown menu, and then select the **New Rule** option from the list.

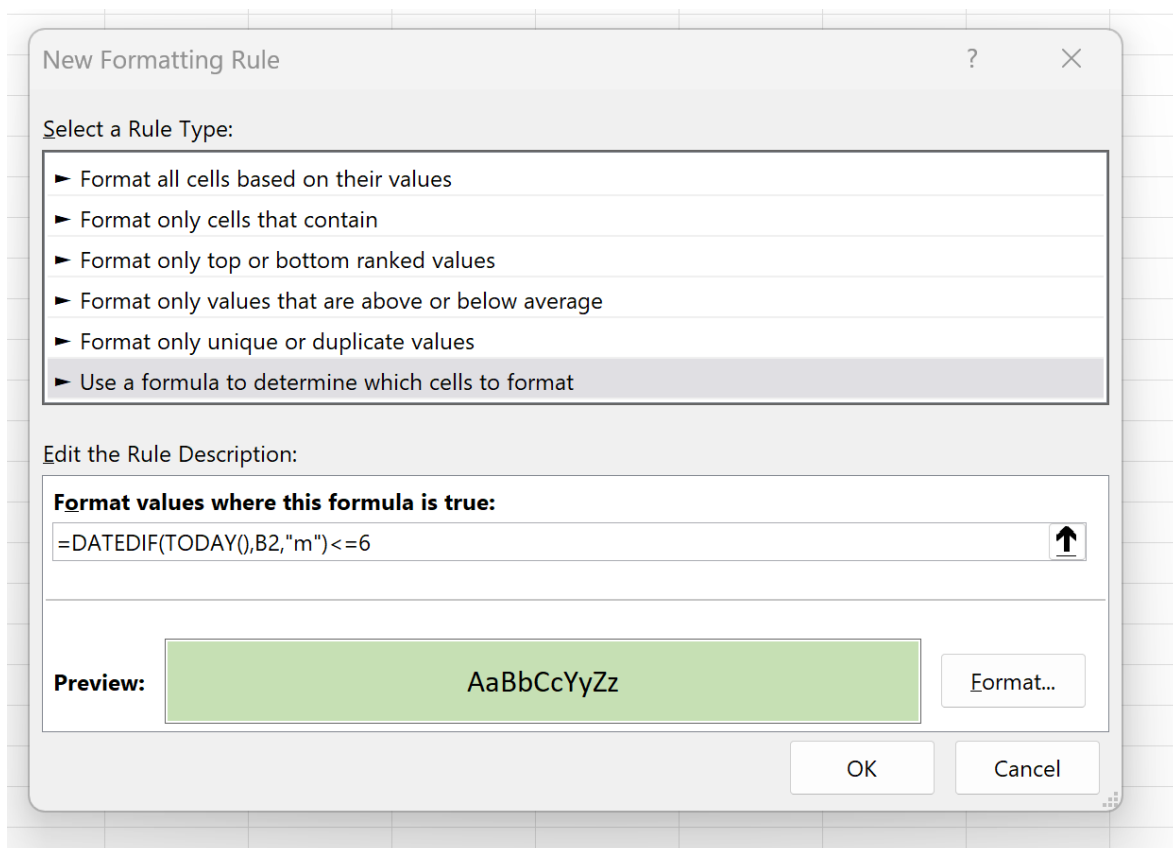
**Choose Formula Type:** When the 'New Formatting Rule' window appears, locate and select the option labeled **Use a formula to determine which cells to format**. This option enables the powerful, custom logic necessary for performing dynamic comparisons based on date intervals.



The next critical phase involves inputting the custom logic into the dedicated field. In the formula input box, you must type the exact expression: `=DATEDIF(TODAY(),B2,"m")<=6`. It is crucial to remember that **B2** must correspond to the first cell in your previously selected range and must be

entered without any absolute dollar signs (i.e., not  $\$B\$2$ ). This unanchored reference guarantees that the rule correctly iterates down the column, evaluating each date independently.

Once the formula is correctly typed, click the **Format** button. This action opens the 'Format Cells' dialog box, where you define the visual properties applied when the conditional statement is met. You have the flexibility to choose a specific fill color, font style, or border effect to draw immediate attention to the imminent dates. For optimal readability and professional presentation, selecting a light, contrasting fill color is generally recommended.



## Reviewing the Dynamic Results and Output

After the formula has been accurately entered, the desired formatting style has been selected, and **OK** is clicked to close all related dialog boxes, the conditional formatting rule is immediately and automatically applied to the entire selected range of dates.

The immediate visual output serves as a clear confirmation of which dates fall within the critical six-month window, starting from our example calculation date of **7/28/2023**. The cells corresponding to these imminent dates are visually highlighted using the chosen format--in this demonstration, a soft green fill--providing instant prioritization cues.

	A	B	C	D	E
1	<b>Name</b>	<b>Retirement Date</b>			
2	Andy	7/30/2023			
3	Bob	8/15/2023			
4	Chad	10/19/2023			
5	Doug	10/22/2023			
6	Eric	1/4/2026			
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12	Kendall	1/1/2024			
13	Luke	1/17/2025			
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As clearly demonstrated by the resulting output, only those retirement dates scheduled for October, November, and December 2023 are highlighted, as they are the only entries falling within the established six-month horizon from the current date. Dates scheduled for 2024 and subsequent years correctly remain unformatted. This visual distinction is invaluable, offering an instant, high-level overview of immediate operational priorities and deadlines.

Crucially, the power of this technique lies in its dynamic nature, enabled by the use of the [TODAY function](#). This formatting will automatically and continuously shift over time. For instance, if this exact spreadsheet is reopened a month later, say on 8/28/2023, the six-month window will have automatically advanced. This means that some dates previously highlighted might drop off the alert threshold, while new dates that have moved into the critical range will suddenly become highlighted. This automation capability eliminates any need for manual review or periodic updating, ensuring the data is always evaluated based on the current context.

## Customizing the Time Window and Units

One of the greatest advantages of utilizing a formula-based rule for [Conditional Formatting](#) is its inherent flexibility and scalability. The specific time window (initially set at six months) is effortlessly

adjustable, allowing users to define different critical periods tailored precisely to various business needs--whether it requires a short-term, 90-day alert or a broader, long-term one-year forecast.

To modify the threshold, users simply need to adjust the numeric value positioned at the end of the formula. For example, if the reporting requirement changes, necessitating the highlighting of dates within **three months** of the current date, the formula is adapted as follows:

Original Rule (6 months): `=DATEDIF(TODAY(), B2, "m") <=6`

New Rule (3 months): `=DATEDIF(TODAY(), B2, "m") <=3`

Beyond months, the [DATEDIF function](#) supports a variety of unit arguments, offering greater granularity in defining the time interval. By changing the third argument within the formula, you can calculate the distance between the dates using days, years, or specialized combinations:

To highlight dates within **90 days**: Use `"d"` as the unit, resulting in the formula:  
`=DATEDIF(TODAY(), B2, "d") <=90`

To highlight dates within **one year**: Use `"y"` as the unit, resulting in the formula:  
`=DATEDIF(TODAY(), B2, "y") <=1`

This level of customization ensures that the conditional formatting system can be precisely tailored to match any specific operational or strategic reporting requirements, thereby providing highly relevant and accurate visual indicators for impending deadlines and milestones. Always verify that the specified unit argument accurately matches the numeric value used in the comparison (e.g., if utilizing the `"d"` unit for days, the comparison number must also represent the desired number of days).

## Summary and Advanced Best Practices

The implementation of dynamic [Conditional Formatting](#) based on date proximity is an incredibly powerful technique in [Excel](#). It effectively transforms static data spreadsheets into responsive, real-time management tools. The absolute key to successful deployment lies in constructing the correct logical formula, specifically ensuring the harmonious combination of the **DATEDIF** and **TODAY** functions coupled with the appropriate use of relative cell referencing.

To achieve optimal results and maintain the integrity of your dynamic alerts, consider adopting these essential best practices:

**Date Format Verification:** Rigorously confirm that all cells within the target range are correctly formatted and recognized by Excel as valid date values. If Excel fails to recognize the cell content as a date, the formula will inevitably return errors (such as `#VALUE!`) or produce unexpected and

unreliable results.

**Rule Management and Precedence:** When the complexity increases, requiring the application of multiple conditional rules (e.g., one color for dates within 3 months, a different color for dates between 3 and 6 months), utilize the **Manage Rules** feature. This tool allows you to set the correct order of precedence, guaranteeing that the most urgent or specific criteria are evaluated and applied before broader conditions.

**Visual Consistency:** Although we employed a light green fill in our example, always choose a formatting style (color scheme, font modification, or border) that is highly distinct yet remains professional. The chosen style should align seamlessly with the overall visual theme and reporting standards of your organization.

By mastering the creation and deployment of these custom formulas, users can decisively move beyond the limitations of standard formatting, enabling the creation of genuinely insightful, automated, and context-aware data visualizations that drive informed decision-making.

## Additional Resources

The following tutorials explain how to perform other common operations in Excel: