

✦ Simple SWITCH

[illegible]

Discover more

 Excel

 Microsoft Excel

⚡ Data analysis tool

⚡ Laptop computer

⚡ Productivity software subscriptions

⚡ Business intelligence tools

⚡ Excel skill assessment

⚡ Excel consulting services

⚡ free Excel

⚡ Project management templates

Formula Bar: `=SWITCH(B6,1,"Bad",2,"Good",3,"Excellent","-")`

1								
2		Score	Result					
3		3	Excellent					
4		1	Bad					
5		2	Good					
6		5	-					
7		3	Excellent					
8		1	Bad					
9								

◆ Advanced SWITCH

Let's kick it up a notch! The SWITCH function below reduces the price of green and blue tables by 50% (see orange arrows). All other products are discounted by 10%.

SUM : =SWITCH(B3&C3,"TableGreen",0.5*D3,"TableBlue",0.5*D3,0.9*D3)									
	A	B	C	D	E	F	G	H	I
1									
2		Product	Color	Price	Sale				
3		Table	Red	\$300	\$270				
4		Chair	Blue	\$500	\$450				
5		Table	Green	\$100	\$50	←			
6		Lamp	Yellow	\$100	\$90				
7		Table	Blue	\$350	\$175	←			
8		Table	Green	\$500	\$250	←			
9		Chair	Black	\$600	\$540				
10									

Explanation: the formula shown above uses the & operator to [concatenate](#) (join) the string in cell B3 and cell C3. If the value is "TableGreen", the SWITCH function reduces the price by 50%. If the value is "TableBlue", the SWITCH function also reduces the price by 50%. The last argument (10% discount) is always the default value (if there's no match).

◆ Combine SWITCH with other Functions

Let's combine the SWITCH function with other Excel functions. For example, the SWITCH function below looks up the result of the RIGHT function.

SUM : =SWITCH(RIGHT(B3,2),"UT","Utah","TX","Texas","OH","Ohio","?")									
	A	B	C	D	E	F	G	H	I
1									
2		Code	State						
3		85-UT	Utah						
4		192-TX	Texas						
5		6-OH	Ohio						
6		74-TX	Texas						
7		91-CA	?						
8		18-UT	Utah						
9		23-OH	Ohio						
10		125-TV	Texas						

10		125-TX	Texas						
11									

Explanation: the RIGHT function extracts the 2 rightmost characters from the string in cell B3. If UT, the SWITCH function returns "Utah". If TX, the SWITCH function returns "Texas". If OH, the SWITCH function returns Ohio. The last argument (a question mark in this example) is always the default value (if there's no match).

◆ SWITCH or IFS?

The IFS function below produces the exact same result.

=IFS(RIGHT(B3,2)="UT","Utah",RIGHT(B3,2)="TX","Texas",RIGHT(B3,2)="OH","Ohio",TRUE,"?")									
	A	B	C	D	E	F	G	H	I
1									
2		Code	State						
3		85-UT	Utah						
4		192-TX	Texas						
5		6-OH	Ohio						
6		74-TX	Texas						
7		91-CA	?						
8		18-UT	Utah						
9		23-OH	Ohio						
10		125-TX	Texas						
11									

Conclusion: the SWITCH function is shorter and easier to read.

However, the SWITCH can only perform an exact match. When using [comparison operators](#) like "<" and ">=", use IFS instead of SWITCH.

B1	=IFS(A1<60,"F",A1<70,"D",A1<80,"C",A1<90,"B",A1>=90,"A")								
	A	B	C	D	E	F	G	H	I
1	41	F							
2									

Note: visit our page about the [IFS function](#) to learn more about this powerful Excel function. IFS and SWITCH are only available in Excel 2016 and later versions. If you don't have Excel 2016 or later, you can [nest the IF function](#).

Discover more [Microsoft Excel](#)

[Excel](#) [Simplified Excel guide](#)

[programming language](#)

[Corporate Excel training](#)

[Excel courses online](#) [Free Excel](#)

[⚡ Excel software bundle](#)

[⚡ Microsoft Office Suite license](#)

[⚡ Virtual assistant services](#)

Chapter

- [Logical Functions](#)

Learn more, it's easy

- [If](#)

- [Comparison Operators](#)

- [Or](#)

- [Roll the Dice](#)

- [Ifs](#)

- [Contains Specific Text](#)

- [Switch](#)

- [If Cell is Blank](#)

- [Absolute Value](#)

- [And](#)

⬇ Download Excel File

- [switch.xlsx](#)

Next Chapter

- [Cell References](#)

Follow Excel Easy





Become an Excel Pro

- 1. Introduction

- 2. Basics

- 3. Functions

- 4. Data Analysis

- 5. VBA

Switch • © 2010-2026

Start with Excel in 2026: Range • Formulas and Functions • Ribbon • Cell References • Sort • Filter