

## How to calculate r-squared in Excel

One way to think about r-squared is that it is simply the correlation squared. If you look at it this way, then there are two different ways to calculate r-squared in Excel.

In this example, we are looking at the weekly returns of Apple (AAPL) and the S&P 500 between September 29 and December 9, 2019.

Each of these options will give you the same result. In this example, 67% of the weekly change in Apple's prices can be explained by corresponding changes in the S&P 500.

1

Option 1: First, you'll want to find the correlation of the numbers in your data set using the correlation formula - **=CORREL(B4:B13,C4:C13)**. After you find the correlation, then you simply take that number and square it - **=E6^2**. This gives you the r-squared.

Option 2: In this option, you don't need to find the correlation first. You can use the r-squared formula for the full set of data - =RSQ(B4:B13,C4:C14).

	Α	В	С	D	E	F	G	
1								
2								
3		Weekly change in AAPL	Weekly change in S&P 500		R-squared is simply correlation^2			
4	1	4.05%	0.62%					
5	2	0.08%	0.54%		Correlation			
6	3	4.30%	1.22%		0.8222	=CORREL(B4:E	313,C4:C13)	
7	4	3.75%	1.47%					
8	5	1.69%	0.85%		2 Options for finding R^2			
9	6	2.16%	0.89%				•	
10	7	-1.50%	-0.33%		Option 1: Square the result from Correlation			
11	8	2.09%	0.99%		67.60%	=E6^2		
12	9	1.29%	0.16%					
13	10	0.02%	-0.14%		Option 2: Use the	e R-squared form	ula in excel	
14					67.60%	=RSQ(B4:B13,0	C4:C13)	
15								