What is the purpose and AVERAGEIF function syntax of the Google Sheets ?

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The AVERAGEIF function in Google Sheets is designed to calculate the average of a range of cells that meet a specific criteria. Its purpose is to simplify the process of finding the average of a subset of data within a larger dataset. The syntax of the AVERAGEIF function is "=AVERAGEIF(range, criteria,)", where "range" refers to the range of cells to be evaluated, "criteria" is the condition that must be met for a cell to be included in the average calculation, and "average_range" is an optional argument indicating the range of cells to be averaged. This function is useful for quickly analyzing data and making informed decisions based on specific criteria.

Google Sheets AVERAGEIF Function

AVERAGEIF Function

The **AVERAGEIF** function is a premade function in Google Sheets, which calculates the average of a range based on a **true** or **falsecondition**.

It is typed `=AVERAGEIF` and has three parts:

=AVERAGEIF(**criteria_range**, **criterion**,)

The **condition** is referred to as `criterion`, which can check things like:

If a number is **greater than** another number >
If a number is **smaller than** another number <
If a number or text is **equal** to something =

The is the range where the function calculates the average.

Note: The is optional.

If not specified, the function calculates the average of the same range as condition.

Example AVERAGEIF function

Find the average speed of Grass type Pokemon:

The condition is that the type is "Grass".

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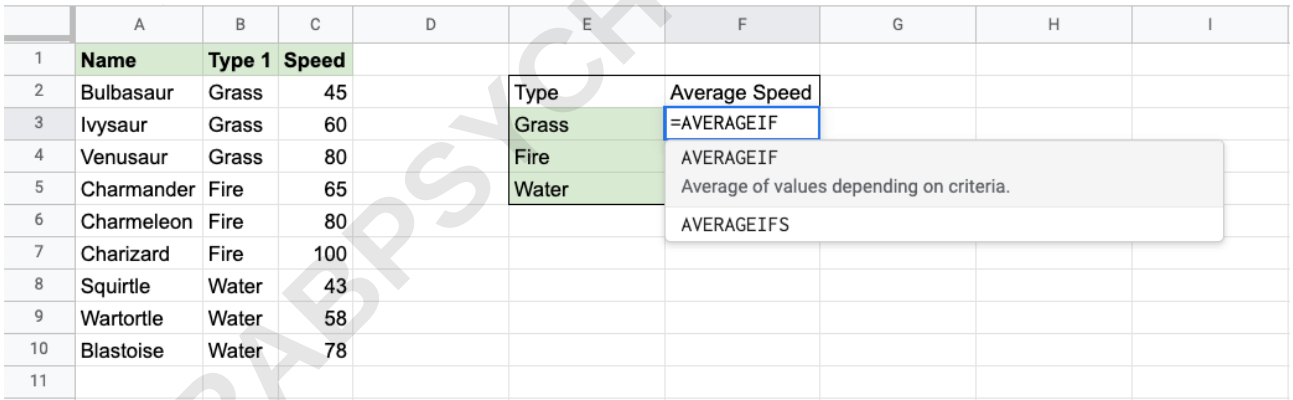
	A	B	C	D	E	F	G
1	**Name**	**Type 1**	**Speed**				
2	Bulbasaur	Grass	45		Type	Average Speed	
3	Ivysaur	Grass	60		Grass		
4	Venusaur	Grass	80		Fire		
5	Charmander	Fire	65		Water		
6	Charmeleon	Fire	80				
7	Charizard	Fire	100				
8	Squirtle	Water	43				
9	Wartortle	Water	58				
10	Blastoise	Water	78				
11							

Example **AVERAGEIF** function, step by step:

Select the cell `F3`
Type `=AVERAGEIF`
Click the **AVERAGEIF** command



Specify the range for the condition `B2:B10` (the Type 1 values)
Type `,`
Specify the criteria (the cell `E3`, which has the value "Grass")
Type `,`
Specify the range for the average `C2:C10` (the Speed values)
Hit enter

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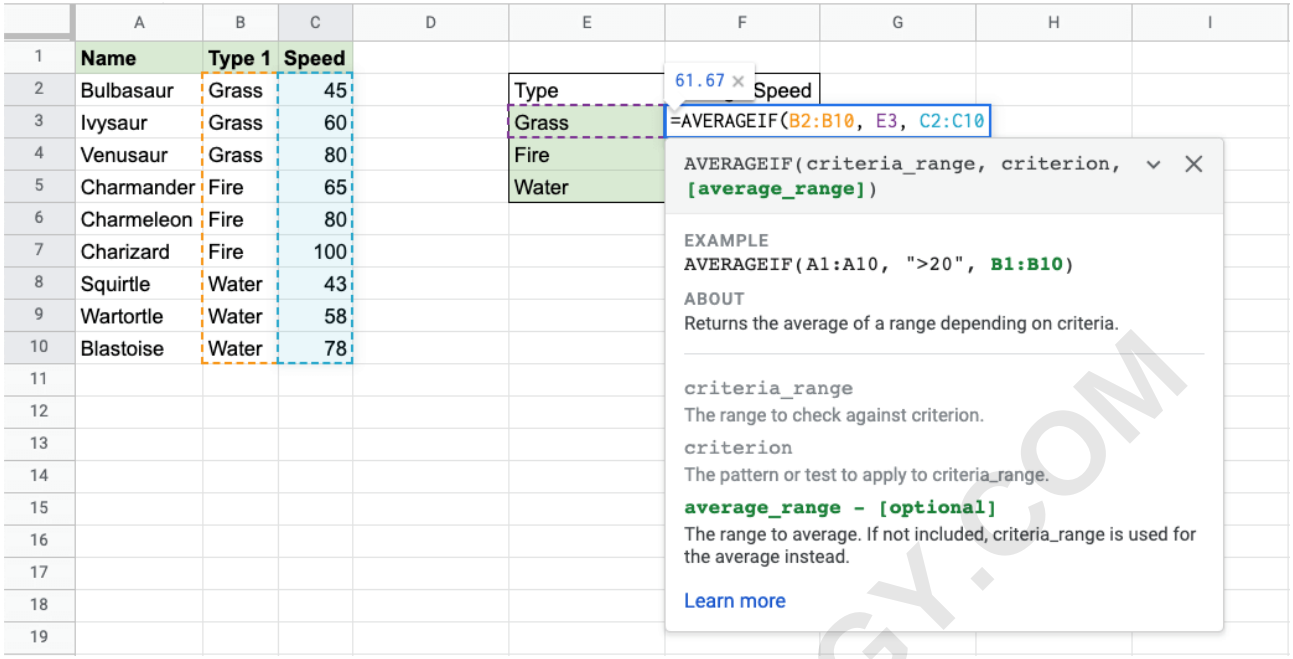
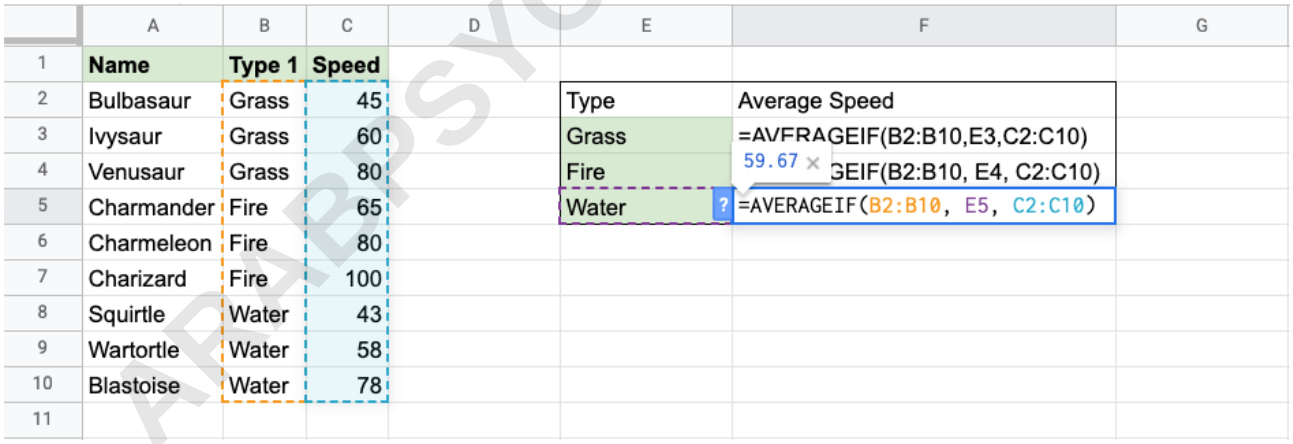


The function now calculates the average speed value of the Grass type Pokemon: Bulbasaur, Ivysaur and Venusaur.

The function can be repeated for Fire and Water type Pokemon to compare them:



Note: You can use the filling function for the other rows, but make sure to use absolute references for the ranges.

Now, we can see the average speed values of each type:

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	A	B	C	D	E	F	G
1	**Name**	**Type 1**	**Speed**				
2	Bulbasaur	Grass	45		Type	Average Speed	
3	Ivysaur	Grass	60		Grass	61.67	
4	Venusaur	Grass	80		Fire	81.67	
5	Charmander	Fire	65		Water	59.67	
6	Charmeleon	Fire	80				
7	Charizard	Fire	100				
8	Squirtle	Water	43				
9	Wartortle	Water	58				
10	Blastoise	Water	78				
11							

★+1

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