



AGENDA

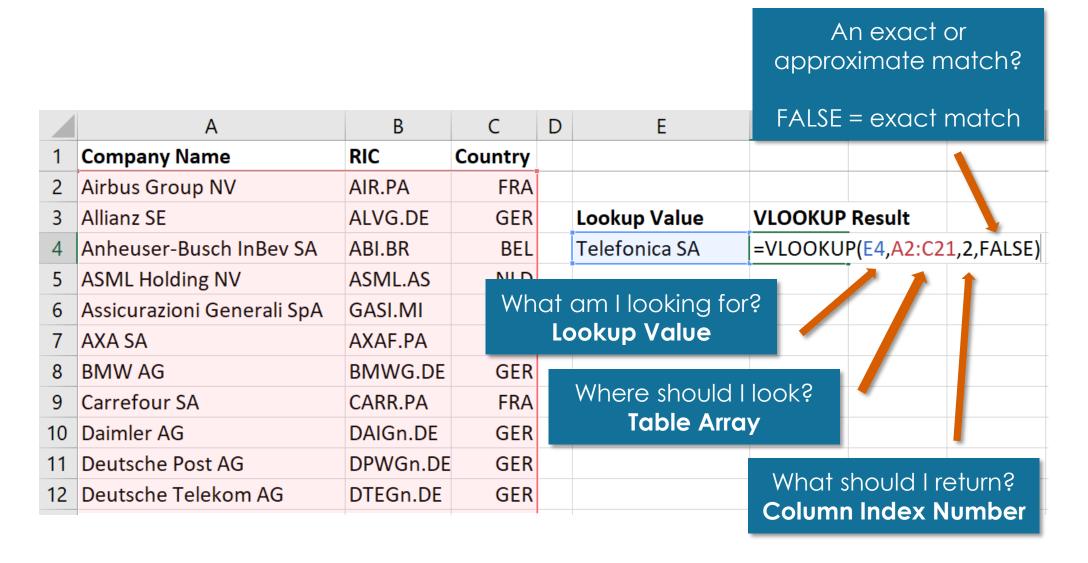
VLOOKUP function

MATCH function

INDEX function

Exercise

VLOOKUP



MATCH

- It is good Excel practice to avoid hardcoding values into a formula.
- In order to build flexible lookup formulas we need the MATCH function.
- With MATCH we can lookup the relative position of a value in an array.

=MATCH(lookup value, lookup array, match type)

MATCH

	Α	В	С	D	E	F	G	Н
1	Company Name	RIC	Country					
2	Airbus Group NV	AIR.PA	FRA					
3	Allianz SE	ALVG.DE	GER		Lookup Value	VLOOKUP	Result	
4	Anheuser-Busch InBev SA	ABI.BR	BEL		Telefonica SA	=VLOOKU	P(E4,A2:C2	1,2,FALSE)
5	ASML Holding NV	ASML.AS	NLD					
6	Assicurazioni Generali SpA	GASI.MI	ITA					
7	AXA SA	AXAF.PA	FRA					
8	BMW AG	BMWG.DE	GER					
9	Carrefour SA	CARR.PA	FRA					
10	Daimler AG	DAIGn.DE	GER					
11	Deutsche Post AG	DPWGn.DE	GER			A	ın exact	or
12	Deutsche Telekom AG	DTEGn.DE	GER			appro	ximate r	natch?
						0 =	exact m	atch

MATCH

	А	В	С	D	E	F	G
1	Company Name	RIC	Country				
2	Airbus Group NV	AIR.PA	FRA				
3	Allianz SE	ALYG.DE	GER		Lookup Value	VLOOKUP Resu	ult
4	Anheuser-Busch InBev SA	ABI.BR	BEL		Telefonica SA	TEF.MC	
5	ASML Holding NV	ASML.AS	NLD	_			
6	Assicurazioni Generali SpA	GASI.MI	ITA		Column	MATCH Result	
7	AXA SA	AXAF.PA	FRA		Country	3	
8	BMW AG	BMWG.DE	GER			4	
9	Carrefour SA	CARR.PA	FRA				
10	Daimler AG	DAIGn.DE	GER				
11	Deutsche Post AG	DPWGn.DE	GER				
12	Deutsche Telekom AG	DTEGn.DE	GER				

VLOOKUP + MATCH

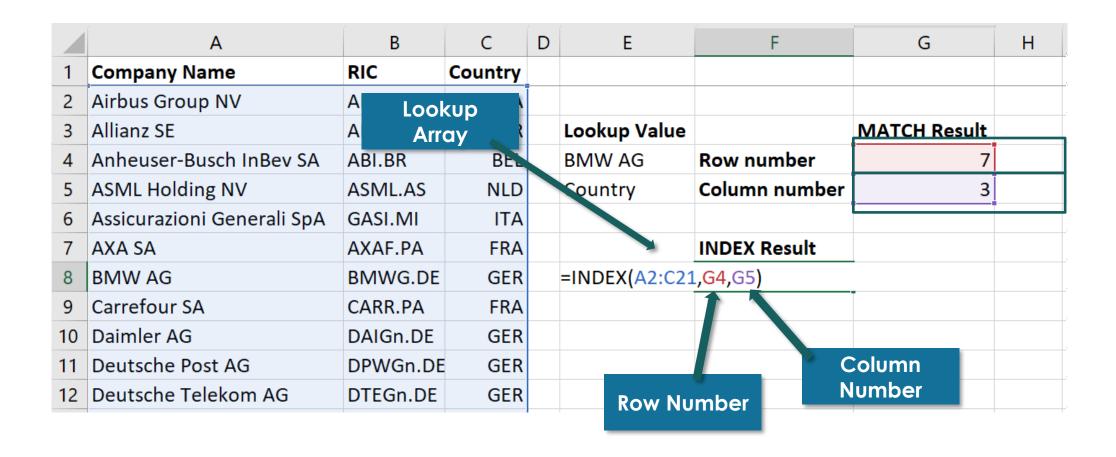
	Α	В	С	What am I looking for?	G H
1	Company Name	RIC	Countr	Lookup Value	
2	Airbus Group NV	AIR.PA	FRA		
3	Allianz SE	ALVG.DE	GER	Lookup Value VLOOKUP Result	
4	Anheuser-Busch InBev SA	ABI.BR	BEL	Telefonica SA =VLOOKUP(E4,A2:C	21,F7,FALSE)
5	ASML Holding NV	ASML.AS	NLD		
6	Assicurazioni Generali SpA	GASI.MI	ITA	Column MATCH Result	
7	AXA SA	AXAF.PA	FRA	RIC 2	
8	BMW AG	BMWG.DE	GER	M/b are abouted the ak2	
9	Carrefour SA	CARR.PA	FRA	Where should I look? Table Array	
10	Daimler AG	DAIGn.DE	GER	Tuble Alluy	
11	Deutsche Post AG	DPWGn.DE	GER	What should	Hreturn?
12	Deutsche Telekom AG	DTEGn.DE	GER		

- VLOOKUP can only return values from columns on the right-hand of the lookup value.
- The INDEX function is a more flexible lookup function.
- Think of the INDEX function as having a map and giving coordinates to look for a specific value on the map.

=INDEX(lookup array, row number, column number)

	Α	В	С	D	E
1		Lookup array	= B2:D8		
2					
3					
4			Row 3, Col 2		
5					
6					
7					
8					

=INDEX(B2:D8, 3, 2)



	Α	В	С	D	Е	F	G	Н
1	Company Name	RIC	Country					
2	Airbus Group NV	AIR.PA	FRA					
3	Allianz SE	ALVG.DE	GER		Lookup Value		MATCH Result	
4	Anheuser-Busch InBev SA	ABI.BR	BEL		BMW AG	Row number	7	
5	ASML Holding NV	ASML.AS	NLD		Country	Column number	3	
6	Assicurazioni Generali SpA	GASI.MI	ITA					
7	AXA SA	AXAF.PA	FRA			INDEX Result		
8	BMW AG	BMWG.DE	GER			GER		
9	Carrefour SA	CARR.PA	FRA					
10	Daimler AG	DAIGn.DE	GER					
11	Deutsche Post AG	DPWGn.DE	GER					
12	Deutsche Telekom AG	DTEGn.DE	GER					

	А	В	С	D	E	F	G	Н
1	Company Name	RIC	Country					
2	Airbus Group NV	AIR.PA	FRA					
3	Allianz SE	ALVG.DE	GER		Lookup Value		MATCH Result	
4	Anheuser-Busch InBev SA	ABI.BR	BEL		Carrefour SA	Row number	8	
5	ASML Holding NV	ASML.AS	NLD		RIC	Column number	2	
6	Assicurazioni Generali SpA	GASI.MI	ITA					
7	AXA SA	AXAF.PA	FRA			INDEX Result		
8	BMW AG	BMWG.DE	GER			CARR.PA		
9	Carrefour SA	CARR.PA	FRA					
10	Daimler AG	DAIGn.DE	GER					
11	Deutsche Post AG	DPWGn.DE	GER					
12	Deutsche Telekom AG	DTEGn.DE	GER					











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