

# Recording and editing macros

EV datasets recording macros							
region	category	parameter	mode	powertrain	year	unit	value
Australia	Historical	EV stock share	Cars	EV	2011	percent	0.00039
Australia	Historical	EV sales share	Cars	EV	2012	percent	0.0065
Australia	Historical	EV sales	Cars	BEV	2013	Vehicles	49
Australia	Historical	EV stock	Cars	BEV	2014	Vehicles	220
Australia	Historical	EV sales	Cars	BEV	2015	Vehicles	170
Australia	Historical	EV sales share	Cars	EV	2016	percent	0.03
Australia	Historical	EV stock share	Cars	EV	2017	percent	0.0024
Australia	Historical	EV stock	Cars	PHEV	2018	Vehicles	80

Australia	Historical	EV sales share	Cars	EV	2012	percent	
Australia	Historical	EV sales	Cars	BEV	2013	Vehicles	
Australia	Historical	EV stock	Cars	BEV	2014	Vehicles	
Australia	Historical	EV sales	Cars	BEV	2015	Vehicles	
Australia	Historical	EV sales share	Cars	EV	2016	percent	
Australia	Historical	EV stock share	Cars	EV	2017	percent	
Australia	Historical	EV stock	Cars	PHEV	2018	Vehicles	

Record Macro

Macro name:

color

Shortcut key:

Ctrl+Shift+ B

Store macro in:

This Workbook

Description:

It colors the cells

OK

Cancel

EV datasets recording macros							
region	category	parameter	mode	powertrain	year	unit	value
Australia	Historical	EV stock share	Cars	EV	2011	percent	0.00039
Australia	Historical	EV sales share	Cars	EV	2012	percent	0.0065
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Australia	Historical	EV sales share	Cars	EV	2016	percent	0.03
Australia	Historical	EV stock share	Cars	EV	2017	percent	0.0024
Australia	Historical	EV stock	Cars	PHEV	2018	Vehicles	80

Macro

Macro name:

color

tourism\_dataset.csvColor

color

Run

Step Into

Edit

Create

Delete

Options...

Macros in:

All Open Workbooks

Description

It colors the cells

Cancel

(General)

```
Sub color()  
'  
' color Macro  
' It colors the cells  
'  
' Keyboard Shortcut: Ctrl+Shift+B  
'  
    With Selection.Interior  
        .Pattern = xlSolid  
        .PatternColorIndex = xlAutomatic  
        .ThemeColor = xlThemeColorAccent2  
        .TintAndShade = -0.249977111117893  
        .PatternTintAndShade = 0  
    End With  
    Range("N5").Select  
End Sub
```

# Vlookup V-vertical

### VLOOKUP FOR THE TOURISM DATASET

Country	Category	Visitors	Rating	Revenue
India	Nature	948853	1.32	84388.38
USA	Historical	813627	2.01	802625.6
Brazil	Historical	623329	1.09	295183.6
France	Cultural	124867	1.43	547893.2
Egypt	Cultural	389886	2.19	943411.3
China	Beach	416933	3.92	744983.2
Australia	Nature	412795	1.34	13352.38

Country	Visitors	Rating	Revenue
India	=VLOOKUP(		

VLOOKUP(lookup\_value, table\_array, col\_index\_num, [range\_lookup])

Country	Category	Visitors	Rating	Revenue
India	Nature	948853	1.32	84388.38
USA	Historical	813627	2.01	802625.6
Brazil	Historical	623329	1.09	295183.6
France	Cultural	124867	1.43	547893.2
Egypt	Cultural	389886	2.19	943411.3
China	Beach	416933	3.92	744983.2
Australia	Nature	412795	1.34	13352.38

Country	Visitors	Rating	Revenue
India	=VLOOKUP(C19,C7:G14,3,0)		

Country	Category	Visitors	Rating	Revenue
India	Nature	948853	1.32	84388.38
USA	Historical	813627	2.01	802625.6
Brazil	Historical	623329	1.09	295183.6
France	Cultural	124867	1.43	547893.2
Egypt	Cultural	389886	2.19	943411.3
China	Beach	416933	3.92	744983.2
Australia	Nature	412795	1.34	13352.38
Country	Visitors	Rating	Revenue	
India	948853			
USA		1.34		

Country	Visitors	Rating	Revenue
India	948853		

## value with exact match

## value with approximate match

# H-LOOKUP AND X-LOOKUP

HLOOKUP FOR TOURISM DATASET					
Country	India	USA	Brazil	France	Egypt
Category	Nature	Historical	Historical	Cultural	Cultural
Visitors	948853	813627	623329	124867	389886
Rating	1.32	2.01	1.09	1.43	2.19
Revenue	84388.38	802625.6	295183.6	547893.24	943411.34
Country	Revenue	Rating			
Brazil	295183.6				
Egypt		2.19			

XLOOKUP FOR EMPLOYEE DATASET					
ID	Experience_Ye	Age	Gender	Salary	
101	5	28	Female	250000	
102	1	21	Male	50000	
103	3	23	Female	170000	
104	2	22	Male	25000	
105	1	17	Male	10000	
106	25	62	Male	5001000	
107	19	54	Female	800000	
108	2	21	Female	9000	
109	10	36	Female	61500	
110	15	54	Female	650000	
111	4	26	Female	250000	
112	6	29	Male	1400000	
113	14	39	Male	6000050	
114	11	40	Male	220100	
115	2	23	Male	7500	
116	4	27	Female	87000	
117	10	34	Female	930000	
118	15	54	Female	7900000	
119	2	21	Male	15000	
120	10	36	Male	330000	
ID	Experience_Ye	Age	Gender	Salary	
115				7500	

115	2	23	Male	7500
116	4	27	Female	87000
117	10	34	Female	930000
118	15	54	Female	7900000
119	2	21	Male	15000
120	10	36	Male	330000
ID	Experience_Ye	Age	Gender	Salary
115				
=XLOOKUP(				
XLOOKUP(lookup_value, lookup_array, return_array, [if_not_found], [match_mode], [search_mode])				
Description				
Searches a range or an array for a match and returns the corresponding item from a second range or array. By default, an exact match is used				
Example				
=XLOOKUP("Tom", A2:A9, C2:C9, "Not found", 0, 1)				
lookup_value	is the value to search for			
lookup_array	is the array or range to search			
return_array	is the array or range to return			
[if_not_found]	returned if no match is found			

# INDEX AND MATCH

INDEX FOR EMPLOYEE DATASET					
ID	Experience_Years	Age	Gender	Salary	
101	5	28	Female	250000	
102	1	21	Male	50000	
103	3	23	Female	170000	
104	2	22	Male	25000	
105	1	17	Male	10000	
106	25	62	Male	5001000	
107	19	54	Female	800000	
108	2	21	Female	9000	
109	10	36	Female	61500	
110	15	54	Female	650000	
111	4	26	Female	250000	
112	6	29	Male	1400000	
113	14	39	Male	6000050	
114	11	40	Male	220100	
115	2	23	Male	7500	
116	4	27	Female	87000	
117	10	34	Female	930000	
118	15	54	Female	7900000	
119	2	21	Male	15000	
120	10	36	Male	330000	

=INDEX(  
INDEX(array, row\_num, [column\_num])  
INDEX(reference, row\_num, [column\_num], [area,

110	15	54	Female	650000
111	4	26	Female	250000
112	6	29	Male	1400000
113	14	39	Male	6000050
114	11	40	Male	220100
115	2	23	Male	7500
116	4	27	Female	87000
117	10	34	Female	930000
118	15	54	Female	7900000
119	2	21	Male	15000
120	10	36	Male	330000

ID	Experience_Years	Age	Gender	Salary
=INDEX(L3:P23,6,) •				













ID	Experience_Years	Age	Gender	Salary
105	1	17	Male	10000

MATCH FOR EMPLOYEE DATASET					
ID	Experience_Years	Age	Gender	Salary	
101	5	28	Female	250000	
102	1	21	Male	50000	
103	3	23	Female	170000	
104	2	22	Male	25000	
105	1	17	Male	10000	
106	25	62	Male	5001000	
107	19	54	Female	800000	
108	2	21	Female	9000	
109	10	36	Female	61500	
110	15	54	Female	650000	
111	4	26	Female	250000	
112	6	29	Male	1400000	
113	14	39	Male	6000050	
114	11	40	Male	220100	
115	2	23	Male	7500	
116	4	27	Female	87000	
117	10	34	Female	930000	
118	15	54	Female	7900000	
119	2	21	Male	15000	
120	10	36	Male	330000	

=MATCH(N6,J4:J24,0)  
MATCH(lookup\_value, lookup\_array, [match\_type])

Age	Gender	Salary			
28	Female	250000			
21	Male	50000		22	
23	Female	170000			
22	Male	25000	match =	5	(position)
17	Male	10000			
62	Male	5001000			
54	Female	800000			
21	Female	9000			
36	Female	61500			
54	Female	650000			
26	Female	250000			

# Sparklines

SPARKLINES FOR THE COST OF LIVING DATASET							
	Russia	Turkey	Izmir, Turkey	Kathmandu, Nepal	Chisinau, Moldova	Milan, Italy	Sparklines
Meal, Inexpensive Restaurant	7.34	4.58	3.06	1.99	4.67	15	
Meal for 2 People, Mid-range restaurant	29.35	15.28	12.22	11.92	20.74	60	
McMeal at McDonalds (or Equivalent Burger Meal)	6.50	3.00	2.00	1.50	4.15	8	
Domestic Beer (0.5 liter draught)	3.50	1.50	1.00	0.75	1.04	5	
Imported Beer (0.33 liter bottle)	4.50	2.00	1.50	1.00	1.43	5	
Coke/Pepsi (0.33 liter bottle)	2.50	1.00	0.75	0.50	0.64	2.49	
Water (0.33 liter bottle)	0.90	0.40	0.30	0.20	0.44	1.12	
Milk (regular), (1 liter)	1.50	0.80	0.60	0.40	0.68	1.21	
Loaf of Fresh White Bread (500g)	0.71	0.36	0.38	0.43	0.33	1.94	
Eggs (regular) (12)	1.18	1.62	1.51	1.29	1.11	2.87	
Local Cheese (1kg)	7.6	5.32	4.97	7.48	5.79	13.54	
Water (1.5 liter bottle)	0.63	0.33	0.29	0.28	0.59	0.4	

Create Sparklines

?

×

Choose the data that you want

Data Range:

Choose where you want the sparklines to be placed

Location Range:

OK

Cancel