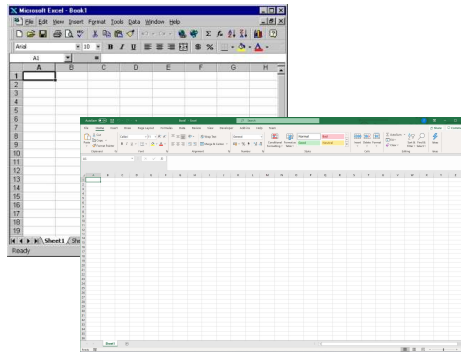


Aim

The aim of the webinar : To explore a range of the latest Excel techniques, functions and features to help you resolve common problems. Overview of charts to improve presentation.

New features can only be applied in version 16 updated with the new features.



Agenda

1. Managing Data
 - New AI – Flash Fill
 - New Array functions –Sort, Filter and Unique
 - New XLookup
2. Ideas – quick data presentation
3. Charts
 - Quick charts and flexing attributes
 - Waterfall charts

© ICAEW 2020

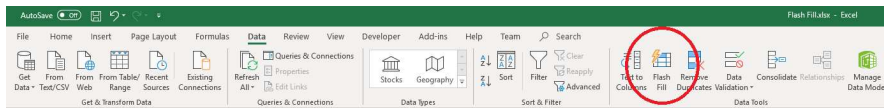
Flash Fill

Uses AI to sense a pattern in the data and will replicate that pattern across your data

Flash Fill

Name	Age		
John Grown	34	John Grown	John is 34
Jane Sing	67	Jane Sing	Jane is 67
Dave Barlow Smith	23	Dave Barlow Smith	Dave is 23
Simon Jollett	39	Simon Jollett	Simon is 39
Sophie Pagent	62	Sophie Pagent	Sophie is 62
Mary Bonkas	26	Mary Bonkas	Mary is 26
Peter Robinson	47	Peter Robinson	Peter is 47
George Lovett	52	George Lovett	George is 52
Danny Cane Wallis	68	Danny Cane Wallis	Danny is 68

New data sets need to be in adjacent columns and phrases can be added

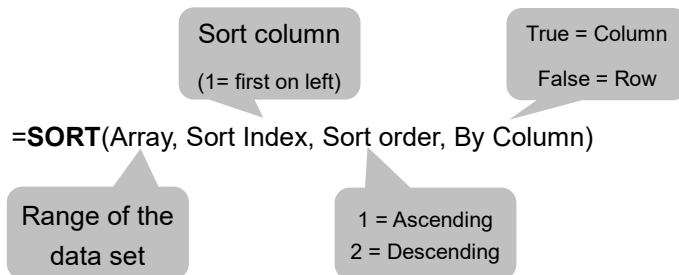


Beware : un-auditable and has to be re-run next time

© ICAEW 2020

Sort

A function that **spills** from an anchor formulae in top left and is a **live** update as data changes



© ICAEW 2020

Filter

Also a function that **Spills** from an anchor formulae in top left and is a **live** update as data changes

A range and logical test

B5:B15>50

=**FILTER**(Array, Include, If_empty)

Range of the
data set

Response if no values meet the criteria

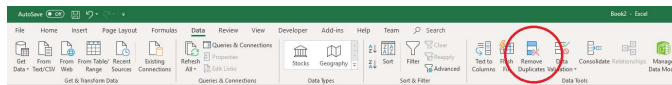
"No items are...."

Combine with Sort and the result is both filtered and sorted

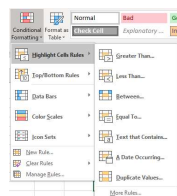
© ICAEW 2020

Removing duplicates (the old ways)

Remove Duplicates button



Or Highlight duplicates with Conditional formatting (copy data set first)

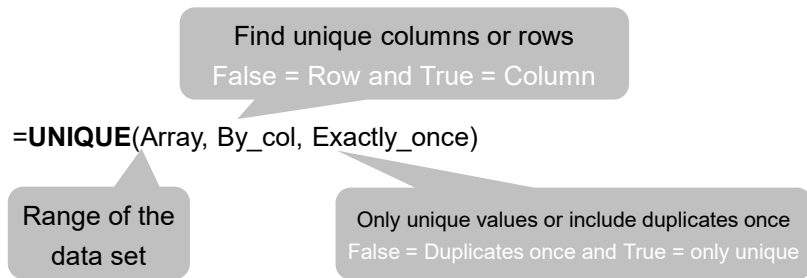


Both are irrelevant of case

© ICAEW 2020

Unique

Still a function that **Spills** from an anchor formulae in top left and is a **live** update as data changes



© ICAEW 2020

VLOOKUP – No more

=VLOOKUP(Lookup_value, Array, Column number)

=INDEX(Array, Row Number of Array)

=MATCH(Value, Array, Type) Type = 0 is exact Match

=INDEX(Column with Answers, **MATCH** (Value, List of all values, Match Type))

=IFERROR(Value, Value if error) – put this around to produce a zero if no match found

Better than **VLOOKUP** – faster, the account balance can be on the left of the account code and not in alphabetical order.

© ICAEW 2020

XLOOKUP – its what we have been waiting for!

Use =XLOOKUP(lookup_value, lookup_array, return_array,
[if_not_found], [match_mode], [search_mode])

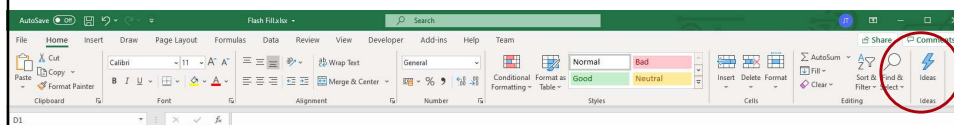
Text if no match
available

Type of match including
an option for wildcard
characters

Search method to
speed response from
large tables

	A	B	C	D	E	F	G
1	Fruit Pricing						
2							
3							
4		Apple	0.15				
5		Pear	0.20				
6		Banana	0.18				
7		Grape	0.01	Mango	Price is:		
8		Orange	0.28				
9		Mango	0.45				
10		Lemon	0.12				
11		Strawberrn	0.05				
12							

Ideas



Analyses your data and generates pivot tables and charts for you that
can be dropped into your worksheet

© ICAEW 2020

Quick Charts

Top left corner must be blank

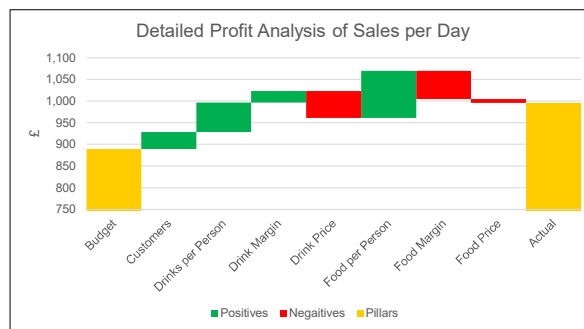
	A	B	C	D	E	F	G	H
1	Quick Charts							
2								
3								
4			2016	2017	2018	2019	2020	
5	Actual	1,000	1,120	1,210	1,325	1,523		
6	Budget	980	1,254	992	1,563	1,615		
7								
8								

57

© ICAEW 2020

A Waterfall Chart

A great way to illustrate the causal factors in reconciling Budget to Actual results.



Top tip – its just a stacked bar chart with a 'clear' base on which the blocks sit

57

© ICAEW 2020

The Data Blocks for the Chart

Build the 5 rows needed for the graph

	Budget	Customers
Variations	889.1506	39.5978
Pillars	889.1506	
Positives		39.5978
Negatives		0
Cumulative	889.1506	928.7484
Blank	0	889.1506

The ends of the chart

The positive variances
(use **=MAX(value,0)**)

The negative variances
(use **=MIN(value,0)** and
switch to positive with
=ABS(value))

Cumulative value =
previous + actual
variance

Blank block is the base
on which the variance
sits therefore
**=cumulative-negative
variance**

59

© ICAEW 2020