# Excel first steps

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#### Welcome

- this session is 🎤: a beginner-level introduction
- we'll get going properly at 13.35
- if you can't access the chat, you might need to join our Teams channel: tinyurl.com/kindnetwork
- you're very welcome to just watch, but if you want to follow along, you'll need Excel of some sort
  - totally informal and chatty, so cameras on etc etc
- also want to plug the M365 Skills Hub for NHSS folks

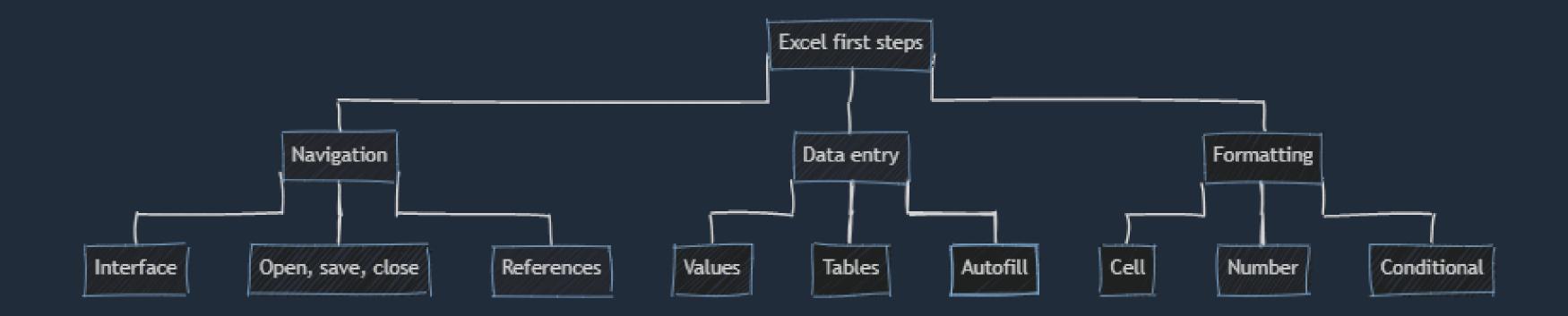


#### The KIND network

- a social learning space for staff working with **k**nowledge, **i**nformation, and **d**ata across health, social care, and housing in Scotland
- we offer social support, free training, mentoring, community events, ...
- Teams channel / mailing list

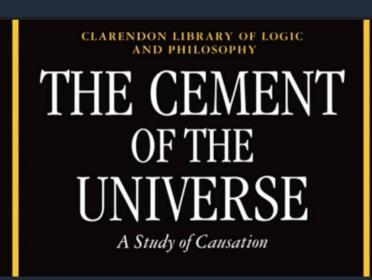


### Session outline





### A brief overview of Excel



- one of the oldest, and most widely used, pieces of desktop software
- ubiquitous in business, finance, health and social care...
- proprietary, closed-source, paid-for
- many versions



#### Central idea

- pieces of data are stored in cells
  - one value, one cell
- cells are arranged into rows and columns

	А	В	С	D	Е	
1						
2				<b>↑</b>		
3	$\leftarrow$	row	$\rightarrow$	column		
4				<b>\</b>		
5						
6						

- arranging data like this allows us to analyse it
- good data analysis helps make services better



### Data should help...

- answering which/when questions
- seeing effects of changes
- comparing different areas
- looking at services over time

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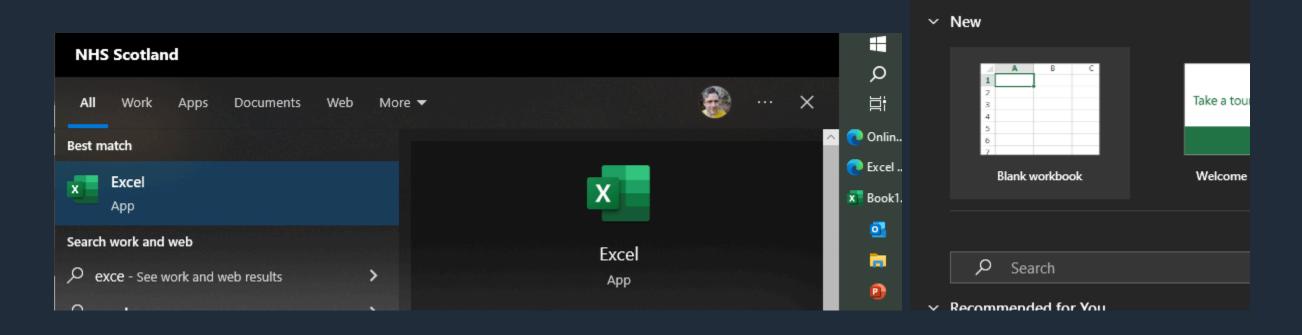


### One word of warning before the practical part

- there are lots of versions of Excel
- they all work slightly differently
- please don't panic if what you see looks slightly different from what I'm showing you
- please ask if you're not happy/confident!

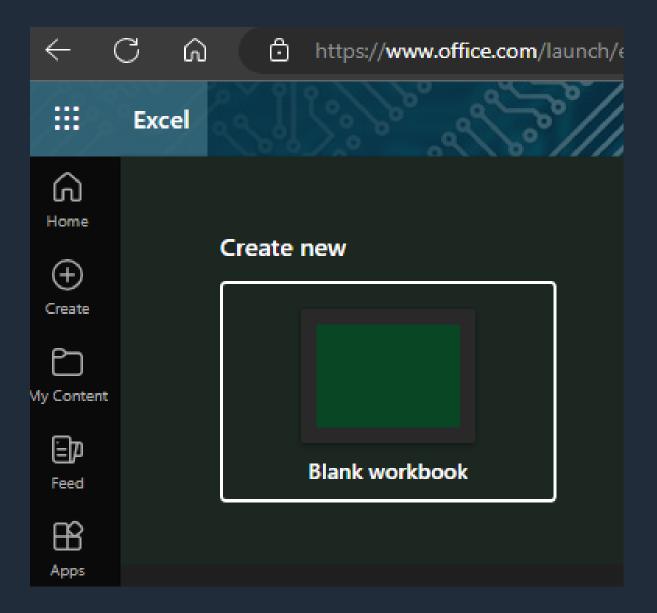


## Opening Excel (desktop)



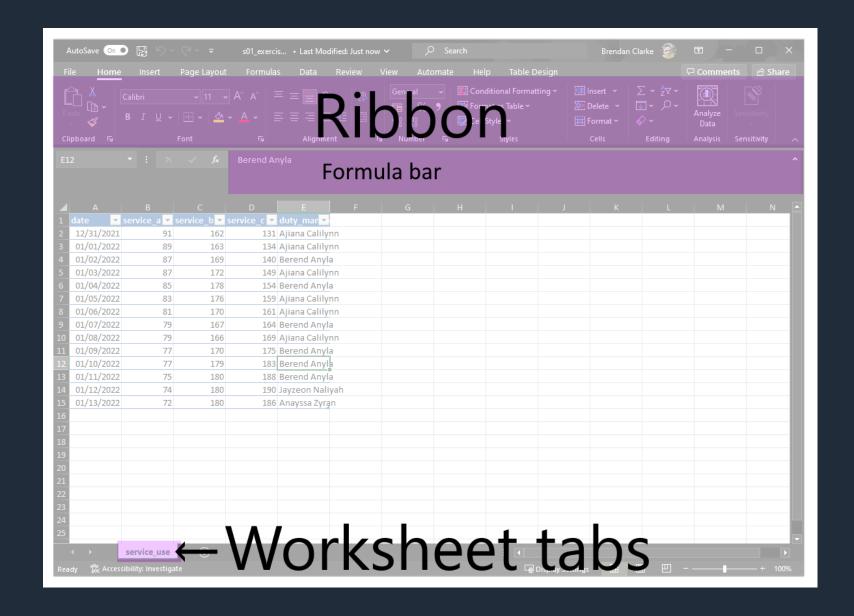


## Opening Excel (web)



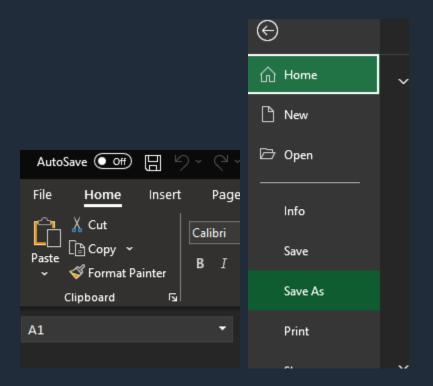


### Interface





### Save, close, open



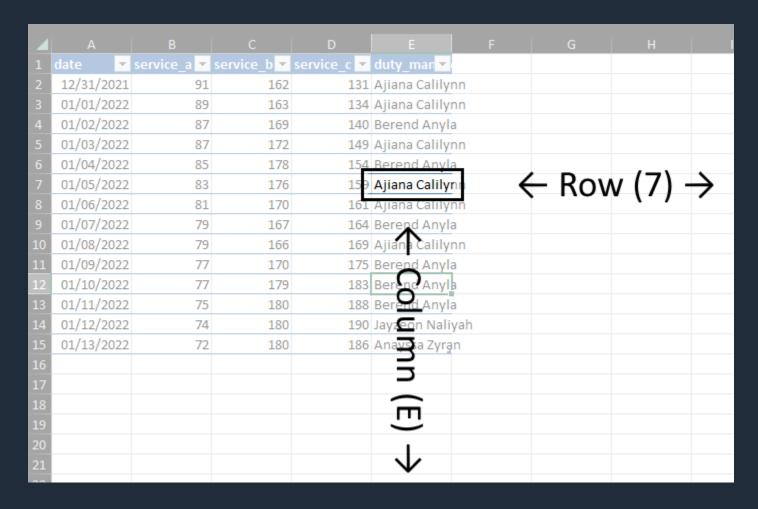
- save your new workbook
- close it
- re-open it (possibly from recent files)



### References



- every cell in Excel has a **reference** like its address
- references look like this: E7

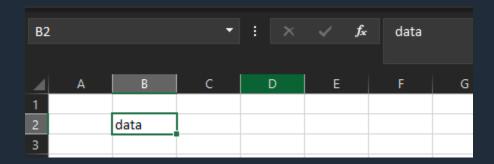


- E refers to a vertical column
- 7 to a horizontal row



### Data entry

- let's add some data...
- we can type into the cells

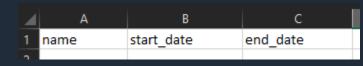


that data appears in the formula bar too



### An example: school holidays

- https://www.scotborders.gov.uk/schools-learning/term-holiday-closure-dates/2
- make three headings in row 1: name, start\_date, end\_date





#### Values

- let's add some values from the school holidays webpage
- name of holiday
- start date
- end date
  - dates usually go DD/MM/YYYY as we'll see, Excel does lots of helping when we enter dates...
  - **-** ... 🔞
- we'll only need a few rows of data



### Tidy data

- keep things consistent spelling, case, formats, etc
  - one piece of data per cell
  - one instance per row (one school holiday per row)
  - one variable per column (a column of names, one of start dates...)



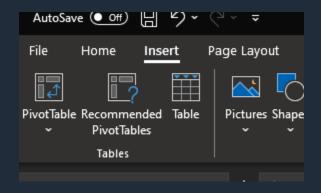
### **Tables**



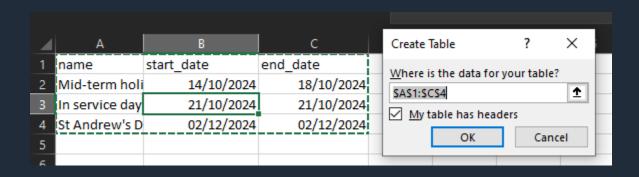
- we can convert this group of cells into a proper table
- click in one of your cells of data

noli	14/10/2024
day	21/10/2024
la D	02/12/2024

Insert > Table (or Ctrl + T)



click OK





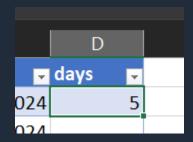
### Lots of new things to see

4	Α	В	C	
1	name	start_date 💌	end_date 🔻	
2	Mid-term hol	14/10/2024	18/10/2024	
3	In service day	21/10/2024	21/10/2024	
4	St Andrew's D	02/12/2024	02/12/2024	
5				

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#### Autofill

- we'll add a formula to calculate how long our holidays are
- add a new column called days
- paste = 1 + (C2 B2) into the first cell of that new column
  - and look out for our session on formulas...
- double-click the green fill handle to fill the rest of the column





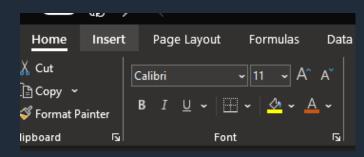
### Formatting

- we can change the way that our spreadsheet looks
- we can also change the way our values look



### **Cell formatting**

• some examples



- highlighting
- bold
- borders



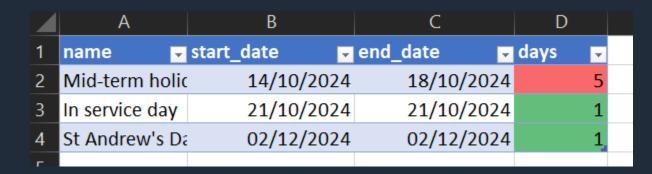
### Number formatting

- our dates are number formatted
- Excel dates are actually numbers (like 45583) formatted to look like dates
- 1900 dates!
- percentages, £, ...



### **Conditional formatting**

we can also format based on values



• take care though - this can be both ugly, and inaccessible



## **Excel training sessions**

Session	Date	Level
Tidy data in Excel	09:30-10:30 Fri 28th June 2024	:beginner-level
Excel tables	10:00-10:30 Mon 1st July 2024	
Formulas in Excel	15:00-16:00 Wed 3rd July 2024	
Lambda formulas in Excel	13:00-13:30 Mon 15th July 2024	** : intermediate-level

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#### Feedback

- please complete our 1-minute, anonymous, feedback survey
- feedback comments become public, so please keep it clean!

#### Previous attendees have said... &

- 20 previous attendees have left feedback
- 100% said that this session was pitched correctly
- 100% would recommend this session to a colleague

#### (i) Three random comments from previous attendees

- A simple and comprehensive introduction to why PBI is a good tool. It gives me should look into learning PBI.
- Very Helpful. It's in my PDP for this year to explore Power BI and how it can be in team - We're quite a data heavy team. The session gave a brief insight on how ea

