BTEC Digital Information Technology

What is digital IT?

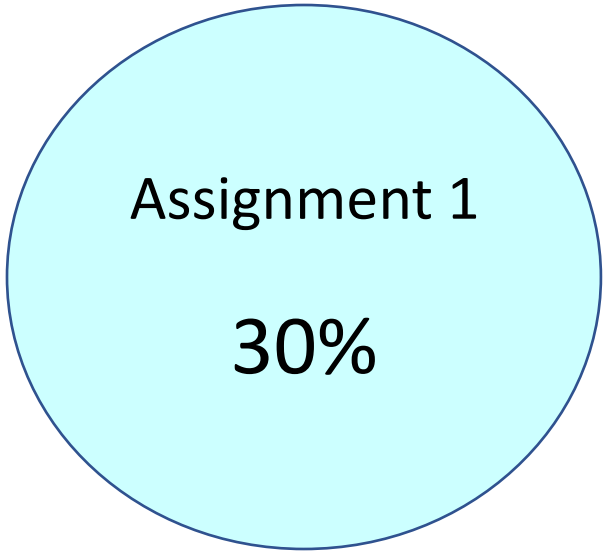
- The content distributed through technological channels
- The systems that generate and process data

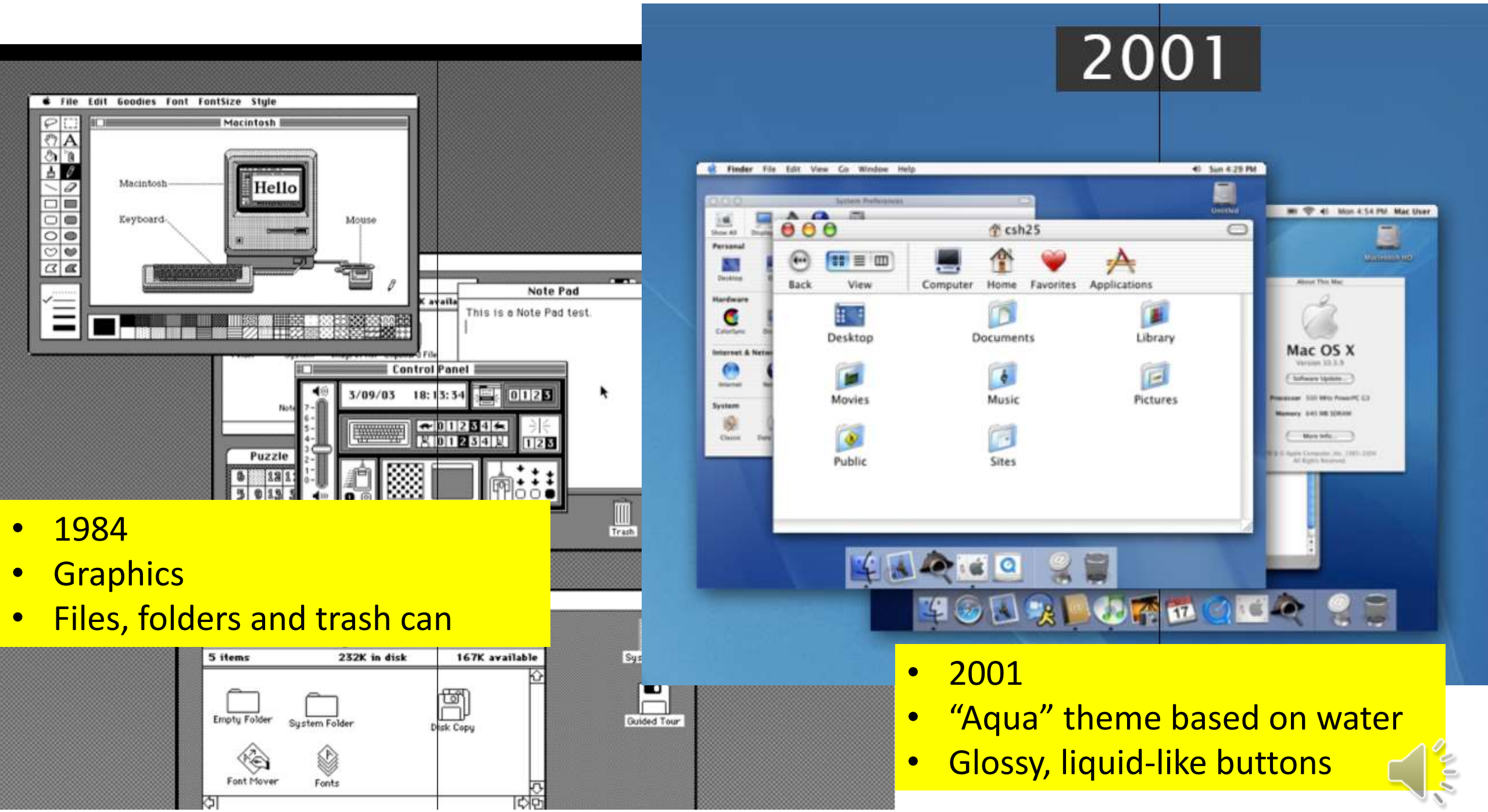
BTEC Tech Award in Digital Information Technology

- Students will learn a strong mix of creative design and technical knowledge.
- Ideal for learners who want to progress to a digital Apprenticeship or BTEC Level 3 Nationals.
- A new digital qualification that gives students a real insight into the modern fundamentals of IT.
- The external assessment is structured to be relevant to IT.

Year 10 –

User Interface design and project planning





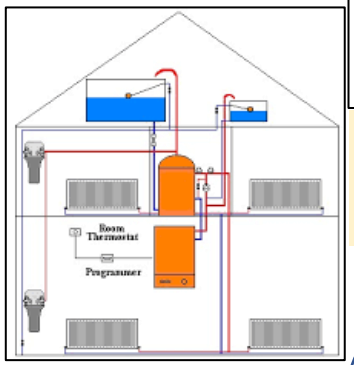
- 1984
- Graphics
- Files, folders and trash can

- 2001
- “Aqua” theme based on water
- Glossy, liquid-like buttons

Analysing user interfaces

Computers

Controlling devices



Domestic appliances

Embedded systems

Entertainment systems

Handheld devices

Designing a touch-screen system for a stadium

Project planning

S

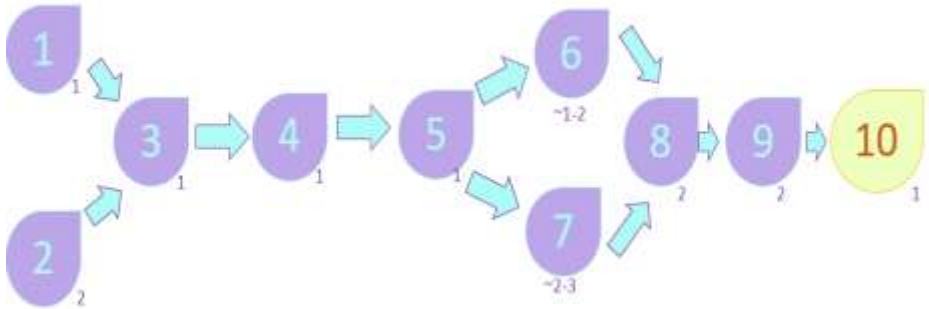
M

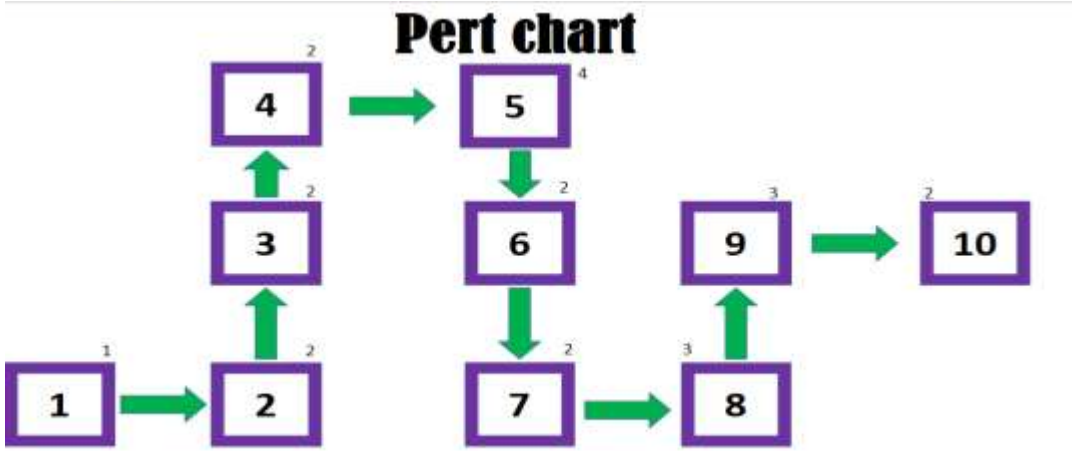
A

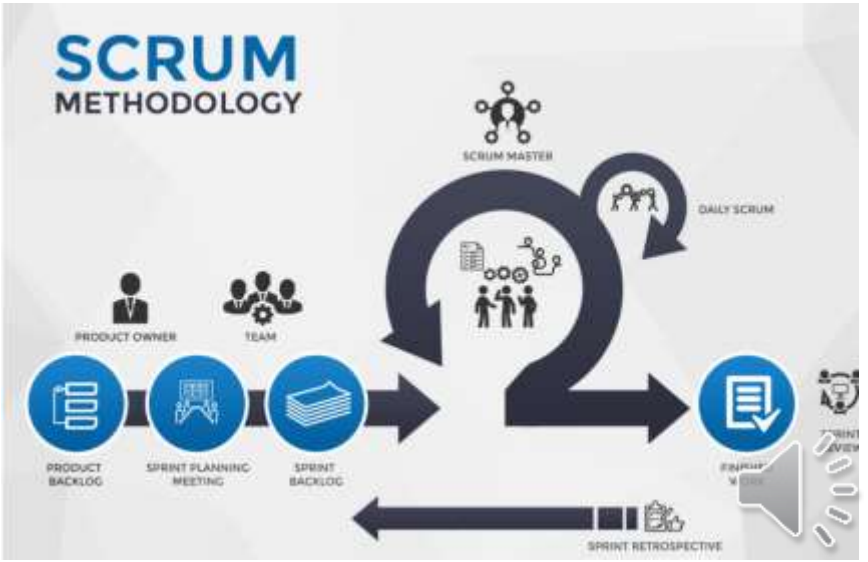
R

T

number	task	resources needed	week 1	week 2	week 3	week 4	week 5	week 6	week7	week 8
	Task									
1	Meeting with client to identify needs	notepad and pen								
2	Collect the resources required including images and text information	laptop,word								
3	Collect ideas to create the moodboard	laptop,word								
4	Review tasks completed and identify if there are any issues	task list				review				
5	Create designs for the initial mock-up	publisher and powerpoint								
6	Present ideas to the client for feedback	notepad and pen								
7	Review and complete the feedback	none							review	
8	Test and get others to review the design	none								
9	Take feedback and testing and make changes to the interface design	publisher,powerpoint and paint								

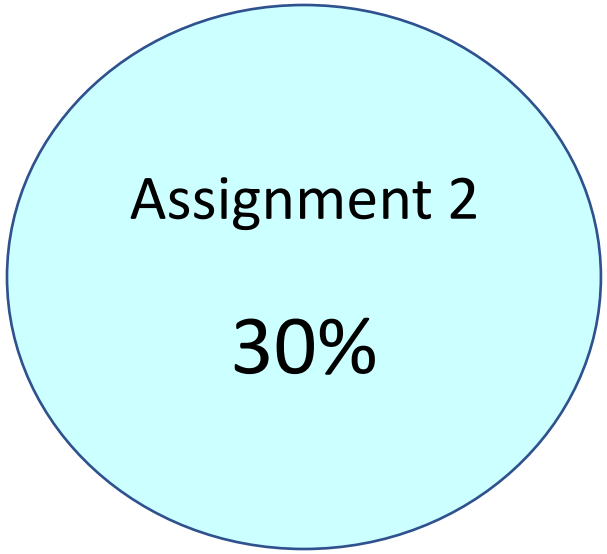






Year 11 –

Collecting, presenting and interpreting data



Do Now

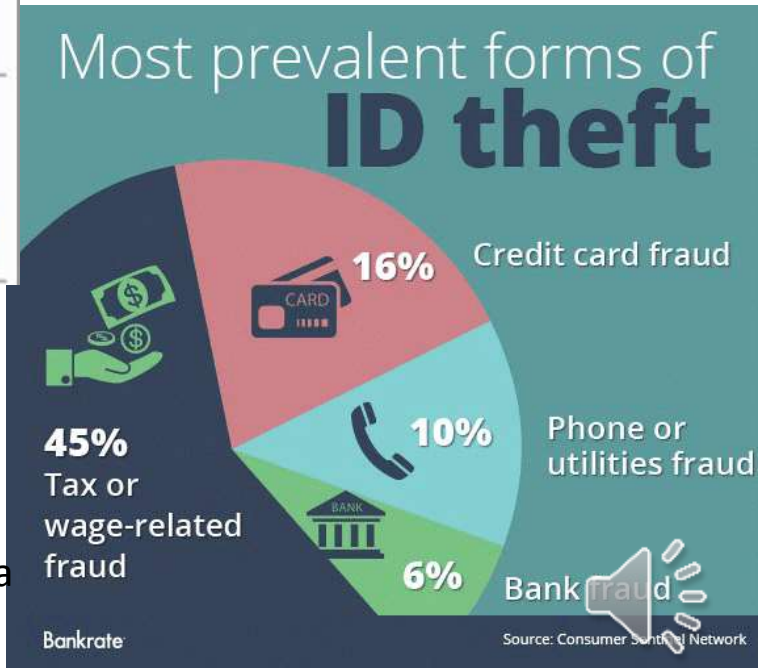
- Summarise these facts
- How can an individual/ business protect itself from data theft?

FACTS

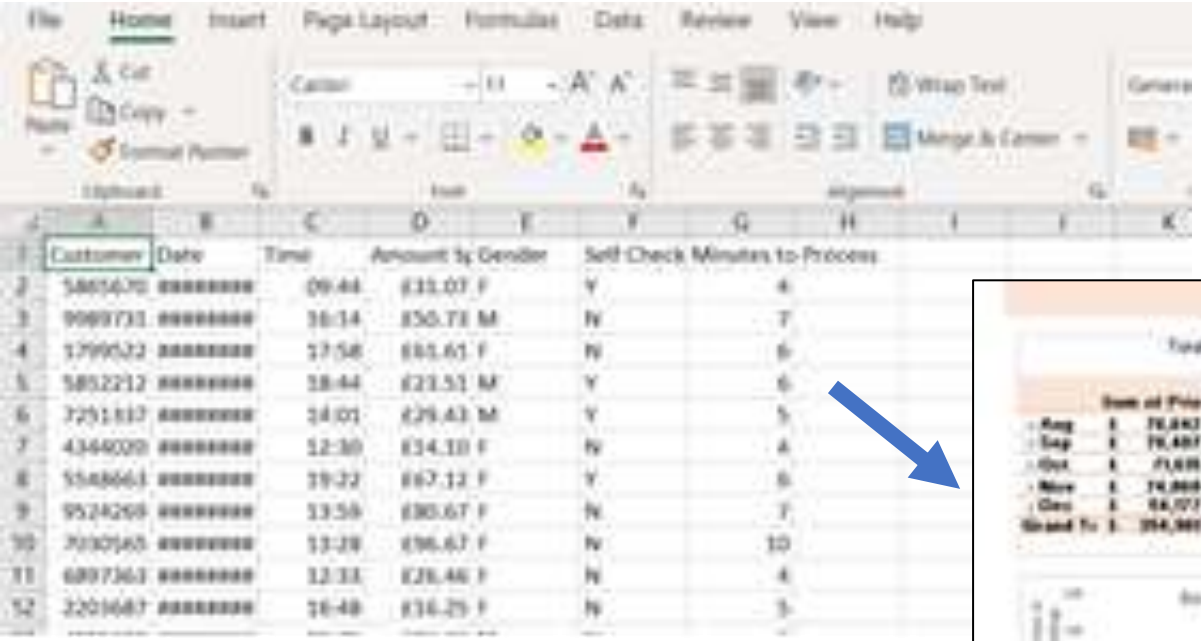
Every minute about 19 People fall victim to identity theft

People between the ages of 18-24 have the highest rates of identity theft

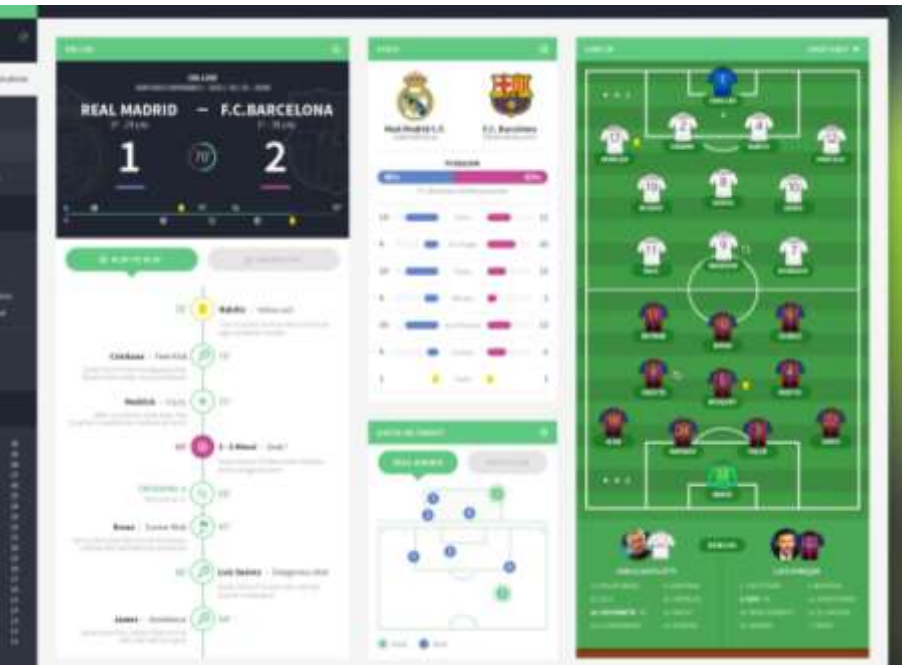
List some other internal/external threats when using data



How data becomes information on a data dashboard



Customer	Date	Time	Amount by Gender	Self Check Minutes to Process
5865470	########	09:44	£15.07 F	Y 4
9989731	########	16:14	£50.73 M	N 7
1799522	########	17:58	£65.65 F	N 6
5852212	########	18:44	£23.51 M	Y 6
7251337	########	14:01	£29.43 M	Y 5
4346020	########	12:30	£34.10 F	N 4
5568663	########	19:22	£67.12 F	Y 6
9524269	########	13:59	£80.67 F	N 7
7030565	########	13:28	£96.67 F	N 10
6897363	########	12:33	£26.46 F	N 4
2201687	########	16:48	£16.25 F	N 3



Level 2 Distinction

Manipulating the data:

- Pivot Tables
- Slicers
- Sparkle lines
- VLOOKUP
- Drop down lists
- MIN, MAX
- Average
- SUMIF
- Count and Sum

Creating the dashboard:

- Charts/graphs
- Tables
- Suitable titles and labels
- A range of formatting features
- Macros to hide and unhide worksheets
- Dropdown list
- Slicers
- Added protection to the dashboard

IF statements

=IF(L2>=$P$2,"reached","not reached")

Why are the dollar signs here?

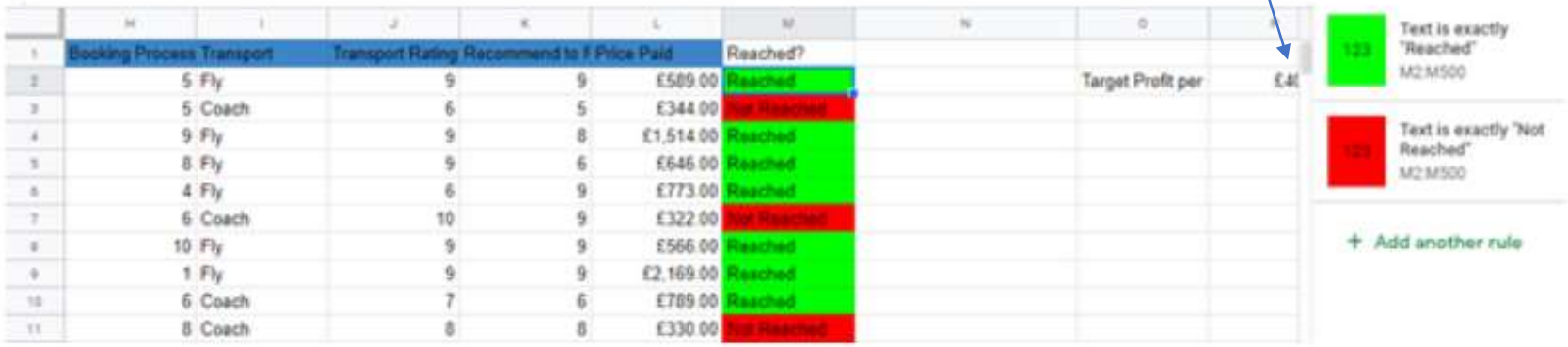
Absolute cell reference

What's the keyboard shortcut for this?

F4

```
=IF(L2>=$P$2,"Reached","Not Reached")
```

I then created this IF statement to show whether or not each individual customer had reached the target profit which I had set to £400. The outcome of this was that if the customer had reached the target profit then it would display "Reached" in the cell but if didn't then it would display "Not Reached".



Booking Process	Transport	Transport Rating	Recommend to F	Price Paid	Reached?
5	Fly	9	9	£589.00	Reached
5	Coach	6	5	£344.00	Not Reached
9	Fly	9	8	£1,514.00	Reached
8	Fly	9	6	£646.00	Reached
4	Fly	6	9	£773.00	Reached
6	Coach	10	9	£322.00	Not Reached
10	Fly	9	9	£566.00	Reached
1	Fly	9	9	£2,169.00	Reached
6	Coach	7	6	£789.00	Reached
8	Coach	8	8	£330.00	Not Reached

Target Profit per £4

Text is exactly "Reached" M2:M500

Text is exactly "Not Reached" M2:M500

+ Add another rule

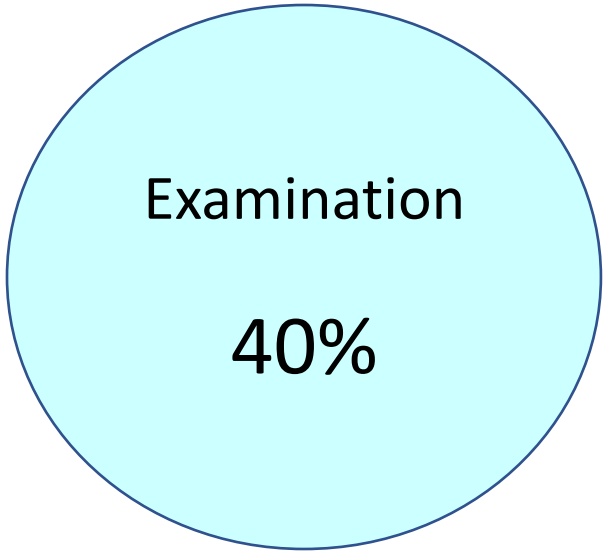
From this I then added some conditional formatting which then highlights the specific cell a certain colour depending on the outcome and whether or not the holiday has reached the target profit.

Customer Email	dpirot4k@buzzfeed.com	Holiday Date	30-12-17	Holiday Duration	14	Transport to Holiday	Fly

Year 11 –

Digital Working Practices:

- Modern technologies
- Cyber security
- Legal and ethical practices



Amazon CEO Jeff Bezos to step down this year, replaced by AWS chief Andy Jassy in stunning turn for tech giant

BY TAYLOR SOPER & TODD BISHOP on February 2, 2021 at 1:07 pm

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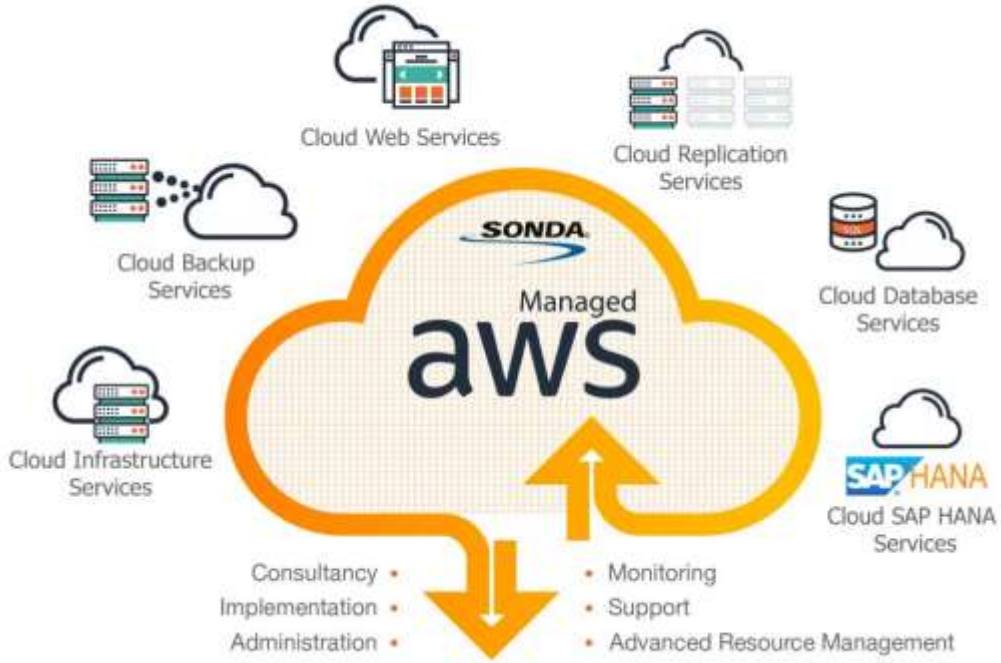
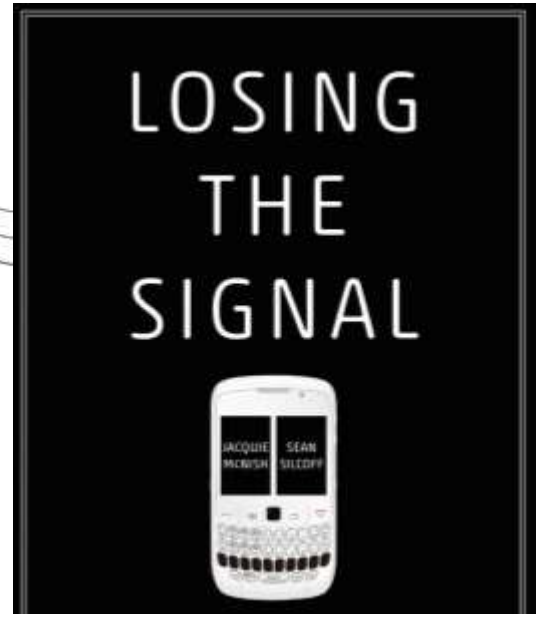


aws

BLACK HAT
GREY HAT
WHITE HAT

PRIVACY
SECURITY
INFORMATION
DATA
PROTECTION
RULES
PERSONAL
CONTROL
INTERNET
RECORDS


LOSING
THE
SIGNAL

ENCRYPTED

STAY AT
HOME
PROTECT
THE NHS
save
lives
NHS.UK/coronavirus

Future careers

- Ideal for learners who want a career in IT and want to get a broad taste of digital skills.
- A stepping stone to careers like IT Project Management, Technical Support and Cyber Security.

What kind of career can I go into?

You will experience a challenging and rewarding career in the ever-changing world of technology. Here's a taste of the different careers a BTEC in the sector could lead to:

- App Development
- Cyber Security
- Data Analysis
- Hardware Engineer
- IT Consultancy
- Programming
- Game Development
- Software Engineer

Future careers

- Jeff Bezos (£112 Billion) – Founded Amazon in his garage
- Bill Gates ($90 Billion) – Co-founder Microsoft
- Mark Zuckerberg ($71 Billion) – Co-founder Facebook

- ❑ Power BI + VBA developer: £325 a day (minus agency fee) = £60,000 a year
- ❑ Software developer/engineer: £30,000+
- ❑ Contracting Software developer/engineer: £50,000+
- ❑ MI (Management Information) Analyst: £35,000

65% of you will have jobs in the future that don't yet exist