

Dear Data

Lesson 2: What's the story?



Starter Task: From last week, what depth questions could you ask for these topics?

1. The emotions you feel
2. The sounds you hear

Learning Intentions

- To find a story in the data collected
- To complete a more complex tally chart
- Use a more complex tally chart to explore your data for unusual patterns

Success Criteria

- Found a story in your data
- Worked on (hopefully completed) your complex tally chart
- Identified any unusual data in your collection

A simple visualisation



Finding the question for your visualisation

- What you did
- Where you did it
- The size of books you own
- How much you have drunk
- The clothes you wear (or don't)
- Where you spend your time
- What do you do with your days
- Where you keep your books

The answer to the question will be shown in our visualisation.

To get started we are going to find how many unique answers there are to each of our data depth questions.

Step 1: Analyse Level 1

- Make a copy of the table on the right.
- The first question was:
 - How did I consume the media?
- Look at the example answers on the next slide. There are 4 possible answers in Level 1.
- Enter the number 4 in your table at Level 1

Lvl1						
Lvl2						
Lvl3						
Lvl4						

Example Answers – How did I consume the media?

Answers to your questions							Answers to your questions						
Lvl 1	Listening						Lvl 1	Reading					
Lvl 2	Phone			0.5 Hours			Lvl 2	Printed Paper			1 Hour		
Lvl 3	Tuesday		22:15		Bedroom		Lvl 3	Tuesday		19:00		Living Room	
Lvl 4	Bed	Fiction	Entertainment				Lvl 4	Arm Chair	Non-Fiction	Work			
Answers to your questions							Answers to your questions						
Lvl 1	Watching						Lvl 1	Playing					
Lvl 2	Desktop Computer			0.5 Hours			Lvl 2	Desktop Computer			1.5 Hours		
Lvl 3	Tuesday		20:00		Study		Lvl 3	Tuesday		20:30		Study	
Lvl 4	Desk Chair	Youtube	Work				Lvl 4	Desk Chair	Game	Entertainment			

Step 2 – Analyse Step 2

- The second question was:
 - What did I consume the media on?
- Look at the example answers on the next slide. There are 8 possible answers in Level 2.
- Enter the number 8 in your table at Level 2

Example Answers – What did I consume the media on?

Answers to your questions						Answers to your questions					
Lvl 1	Listening					Lvl 1	Reading				
Lvl 2	Phone			0.5 Hours		Lvl 2	Printed Paper			1 Hour	
Lvl 3	Tuesday		22:15		Bedroom	Lvl 3	Tuesday		19:00		Living Room
Lvl 4	Bed	Music	Entertainment			Lvl 4	Arm Chair	Non-Fiction	Work		
Answers to your questions						Answers to your questions					
Lvl 1	Watching					Lvl 1	Playing				
Lvl 2	iPad			0.5 Hours		Lvl 2	Cinema Screen			1.5 Hours	
Lvl 3	Tuesday		20:00		Study	Lvl 3	Tuesday		20:30		Study
Lvl 4	Desk Chair	Youtube	Work			Lvl 4	Seat	Movie	Entertainment		
Answers to your questions						Answers to your questions					
Lvl 1	Listening					Lvl 1	Reading				
Lvl 2	TV			0.5 Hours		Lvl 2	Desktop Computer			1 Hour	
Lvl 3	Tuesday		22:15		Bedroom	Lvl 3	Tuesday		19:00		Living Room
Lvl 4	Bed	Netflix	Entertainment			Lvl 4	Arm Chair	Non-Fiction	Work		
Answers to your questions						Answers to your questions					
Lvl 1	Watching					Lvl 1	Playing				
Lvl 2	Record			0.5 Hours		Lvl 2	Electronic Book			1.5 Hours	
Lvl 3	Sunday		10:00		Living Room	Lvl 3	Tuesday		20:30		Study
Lvl 4	Dining Table	Music	Entertainment			Lvl 4	Desk Chair	Fiction	Entertainment		

Finish your analysis

- Continue the same way through all your questions.
- Sometimes you may want to group data rather than collecting individually for example
 - times(06:15, 15:00, 22:00) to time of day (morning, afternoon, night)
 - Duration into <2hours 2 to 4 hours 5+ hours

- Once you have finished analysing your data you have a simple visualisation like this

Lvl1	4					
Lvl2	8				3	
Lvl3	7		4		7	
Lvl4	9	13	4			

A more complex tally chart



Our Goal

We are going to create a more detailed tally chart.

What do you think it is telling you?

Our goal is to make one of these for the data you collected in part 1.

Main Focus ↓	Other data																				
	Listening	Watching	Reading	Playing	Morning	Afternoon	Evening	Night	<1 Hour	1 – 2 hours	3 -5 hours	5 – 8 hours	>8 hours	Monday	Tuesday	Wednesday	Thursday			Friday	Saturday	Sunday	
Living Room																							
Dining Room																							
Study																							
Kitchen																							
Bedroom																							
Balcony																							
Cinema																							
Outside																							

Step 1 – What is our main question?

- The first focus is on the question we are going to create our visual around.
- These are the two areas of the sheet to focus on with this task.
- Lets look at some examples with the sample data

Main Focus on location

- Look through the answer cards and find the unique answers to the “where” question.
- Put these answers in the main focus column

Main Question: Where do I consume the media?						
Other data						
Main Focus ↓						
Living room						
Study						
Bedroom						
Kitchen						
Cinema						
Balcony						
Outside						

Main Focus on why

- Another way to look at the data is to change our main focus to answer the question “why did I consume the media”
- Look through the answer cards and find the unique answers to the “why” question.
- Put these answers in the main focus column

Main Question: Why do I consume the media?					
Other data					
Main Focus ↓					
Work					
Entertainment					
Waiting					
Background					

Step 2 – Adding more data

- The next focus is on the answers to the unique answers to the other questions
- The top row of the sheet will be used to add this new information
- Lets look at some examples with the sample data (using the location main focus)

Step 2 – How I consumed the media

- Start with the example where the main focus is location.
- Add the answers to the “how” question to the top row of the table.

Main Focus ↓	Other data	Listening	Watching	Reading	Playing
Living room					
Study					
Bedroom					
Kitchen					
Cinema					
Balcony					
Outside					

Step 5 Reviewing answers and adding the data

- Review each set of answers and add the data to your empty table.
- Repeat the steps until you have added answers from all your cards to the tally chart

Main Focus ↓	Other data																				
	Listening	Watching	Reading	Playing	Morning	Afternoon	Evening	Night	<1 hour	1-2 hours	3-5 hours	5-8 hours	>8 hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	
Living room																					
Study																					
Bedroom																					
Kitchen																					
Cinema																					
Balcony																					
Outside																					

Answers to your questions						
Lvl 1	Reading					
Lvl 2	Printed Paper			1 Hour		
Lvl 3	Tuesday		19:00		Livingroom	
Lvl 4	Chair	Fiction	Work			

TASK: Tallying your homework data

- Using the sheet and the examples we have looked at create a tally of the data you collected for homework

Missing (or extra) Data, is it important?

During the week that you collected data did anything happen that changed the data you collected?

For example:

- A holiday may increase the amount of media consumed on a day compared to the norm
- A family dinner out may lead to a day when there is less phone usage compared to the norm

These should be noted in our final visualization if they effect the chosen data, the example data has very little for Monday as there was an event attended all day.

TASK: Unusual Data

- Is there any unusual data in your collected data?
- If there is note it on your sheet somewhere to remind you when you start on your visualizations.
- Finish you tally chart of data

If you require this document in an alternative format, such as large print or a coloured background, please contact dataschools@ed.ac.uk

