Dashboard-ready

Three charts that survive a screenshot

Names _____

A chart leaves home: somebody will screenshot it and you will not be there to explain it. Could a stranger read it alone? Titles and looks live in **Customize**; sort and annotations live in **Data**. Work in Superset → **Charts**, on your saved "UT3 · " charts of `games_clean`. A chart opens in Explore with those two tabs on the left. Pairs, one PC; swap the keyboard at each task.

Reference · the six knobs

Knob	The stranger asks	Where in Explore (Line Chart)
Title	"So what?" The finding, not the recipe.	Chart name at the top left of the page.
Axis titles	"What is counted? In what unit?"	**Customize → Chart Title → X Axis Title**, **Y Axis Title**.
Number format	"How many is that, exactly?"	**Customize → Chart Options → Y Axis → Y Axis Format**.
Sort	"Who is first?"	**Data → X-Axis Sort By** and **X-Axis Sort Ascending**.
Colour + legend	"Which line is which?"	**Customize → Chart Options → Color Scheme**; **Legend → Show legend**, **Orientation**.
Annotation	"Compared to what?"	**Data → Annotations and Layers → Add annotation layer**.

Three formats are enough for the whole course: `,d` → 12,345 (counts) · `.1%` → 67.2% (shares) · `$,.2f` → $12,345.43 (money). If a format is not in the list, type it in the box and press Enter. The default is called **Adaptive formatting**.

Task 1 · The line chart of games per year (14 min)

Charts → open `UT3 · Games released per year`. Before you touch anything, write what a stranger sees:

the top label of the Y axis _____ hovering 2018 _____ the legend says _____

Step	Do this	You should see / write
1	Chart name (top left): write the finding. A sentence with a verb and a number, after `UT3 · `.	Your title: _____
2	**Customize → Chart Title**: **X Axis Title** `Release year`, **Y Axis Title** `Games released`. If the title sits on top of the years, raise **X Axis Title Margin** to 30.	Both axes say what they hold.
3	**Customize → Chart Options**: untick **Show legend**. Under **Y Axis**, **Y Axis Format**: `,d`.	Top label now _____ 2018 now _____ Did the data change? _____
4	**Data** tab → **Filters** → `release_year` → **Is not null** → **Save**. Do this before step 5: the game with no date would squeeze your years into the right edge.	A chip under **Filters**.
5	**Data → Annotations and Layers → Add annotation layer**: **Name** `Average year: 1,779 games`, **Annotation layer type** **Formula**, **Formula** `1779`, **Style** **Dashed**. **OK**, then **Update chart**.	A dashed horizontal line. Years above it: _____ Which? _____
6	**Save** (overwrite).	

Task 2 · The bar chart of publishers (9 min)

Step	Do this	You should see / write
1	Open `UT3 · Top 10 publishers`. The longest bar must be at the top and the bars must go down in steps. If not: **Data → Y-Axis Sort By** `COUNT(*)`, and tick or untick **Y-Axis Sort Ascending**.	The bars are horizontal. What are the sort controls named after? _____
2	**Customize → Chart Title**: the axis that holds the numbers gets **Axis Title** `Games published`. The axis with the names needs no title. **Customize → Chart Options**: tick **Show Value**; untick **Show legend**; **Axis Format** `,d`.	First: _____ with _____ Tenth: _____ with _____
3	Rename to a finding that compares the first bar with the second. **Save**.	Your title: _____ _____

Task 3 · Three lines, one legend (8 min)

Step	Do this	You should see / write
1	Open the Task 1 chart again. **Data → Dimensions**: add `owners_tier`. **Update chart**. Then remove the annotation.	Lines now: _____ Why is 1,779 wrong now? _____
2	**Customize → Chart Options**: tick **Show legend**, **Orientation Top**. Try two **Color Scheme** values and keep the one where the lines are easiest to tell apart.	Highest line in 2018: _____ with _____ games
3	**Save → Save as...** with a finding as the name: in which year does one line pass another?	Your title: _____ _____

Why does the Task 1 chart have no legend and the Task 3 chart have one? _____

The screenshot test (when the teacher says so)

Leave your Task 1 chart on screen, full size, and this sheet next to the keyboard. Move to the next PC. On the sheet you find there, write without touching anything and without asking:

1. What is being counted? _____ **2.** Between which years? _____

3. What is the one thing the author wants you to see? _____

Back at your PC: did your visitors get all three right? If not, which knob was missing? _____

Done when Three charts saved, each one readable alone · every blank is filled. **Fast pair?** Ask the teacher for Task 4: the price bands of your heatmap in their natural order.

Stuck?

- **The axis title does not appear or is cut**: raise **X Axis Title Margin** / **Y Axis Title Margin** in the same section.
- **The annotation line is not there**: press **Update chart**. The formula box must contain only `1779`.
- **The X axis starts in 1970**: the filter of Task 1, step 4 is missing.
- **"Save (Overwrite)" is greyed out**: use **Save as...** with your own name.

At home Take the news chart you brought today and write, for each of the six knobs, whether it passes or fails (six lines). Keep it for Wednesday.