

Adult Dataset: Tableau Visualization Guide (Corrected)

1. 1D Visualization: Histogram - Age Distribution by Salary

- Drag `age` to Columns -> Create Bins.
- Drag `Number of Records` to Rows.
- Drag cleaned `salary` to Color.
- Fix salary by categorizing raw text into $\leq 50K$ and $> 50K$.

2. 2D Visualization: Scatter Plot - Capital Gain vs. Hours per Week

- Drag `capitalgain` (converted to numeric) to Columns.
- Drag `hoursperweek` to Rows.
- Drag `salary` to Color.
- Add Linear Trend Line from Analytics.

3. Heatmap: Occupation vs. Marital Status

- Drag `occupation` to Columns, `marital-status` to Rows.
- Drag CNT(occupation) to Color.

4. "3D" Visualization: Bubble Chart - Age, Hours/Week, Capital Gain

- Drag `age` to Columns, `hoursperweek` to Rows.
- Drag `capitalgain` to Size, `gender` to Color.

5. Temporal Visualization: Observation Order vs. Capital Gain

- Create calculated field: INDEX().
- Drag INDEX() to Columns, `capitalgain` to Rows.
- Drag `workclass` to Color. Use Line mark.

6. Multidimensional: Parallel Coordinates Plot

- Normalize fields: age, educationnum, capitalgain, hoursperweek.
- Drag Measure Names to Columns, Normalized Values to Rows.
- Drag salary to Color.

7. Tree/Hierarchical: Treemap - Workclass -> Occupation -> Salary

- Create hierarchy of workclass and occupation.
- Drag hierarchy to view.
- Drag AVG(capitalgain) to Size, salary to Color.
- Select Treemap from "Show Me".

8. Network Visualization (Workaround)

- Create source-target table linking occupations by shared education.
- Drag occupation to Detail, CNT(occupation) to Size.
- Use Line or Map mark with curved paths.