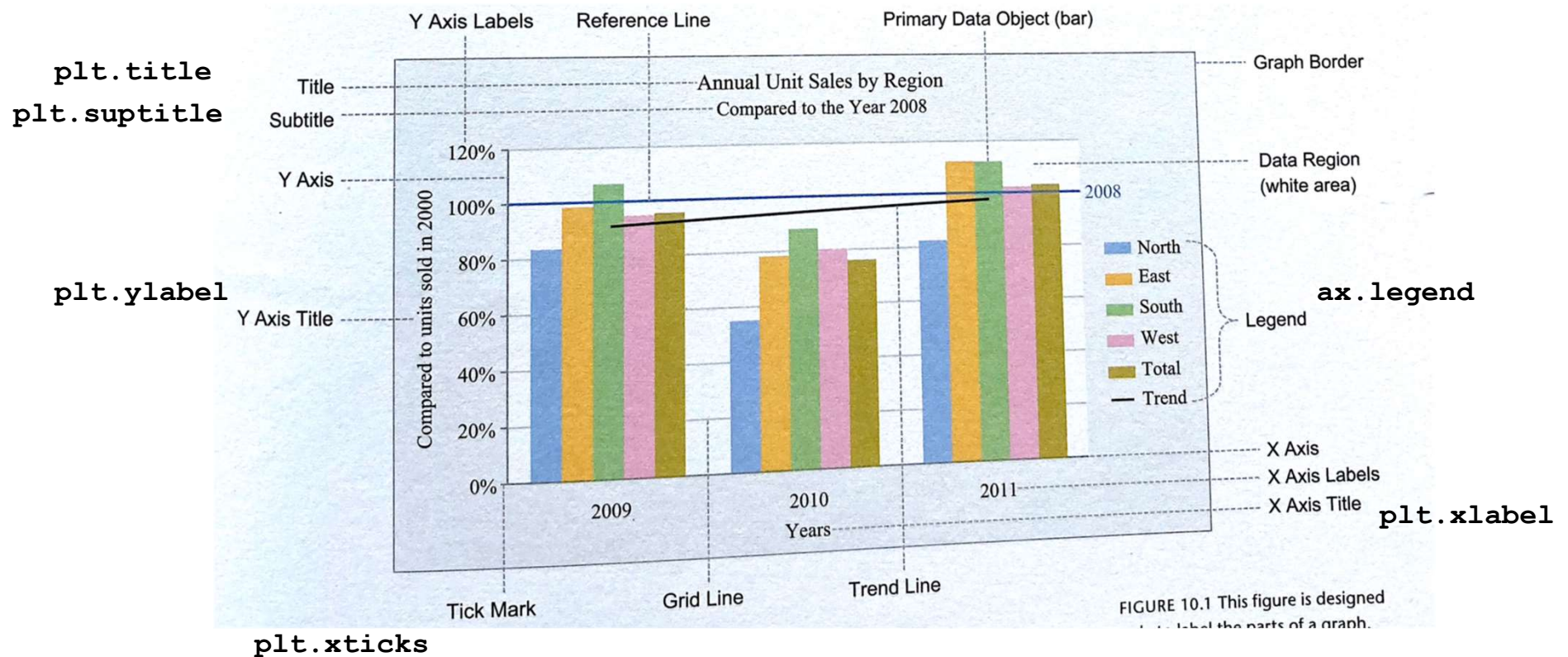# Component Level Graph Design
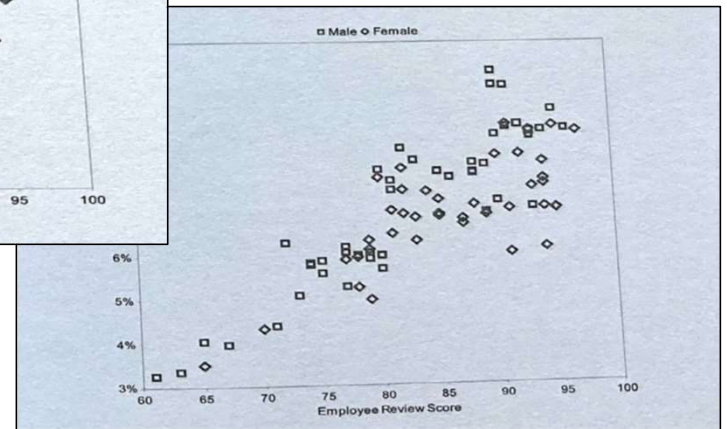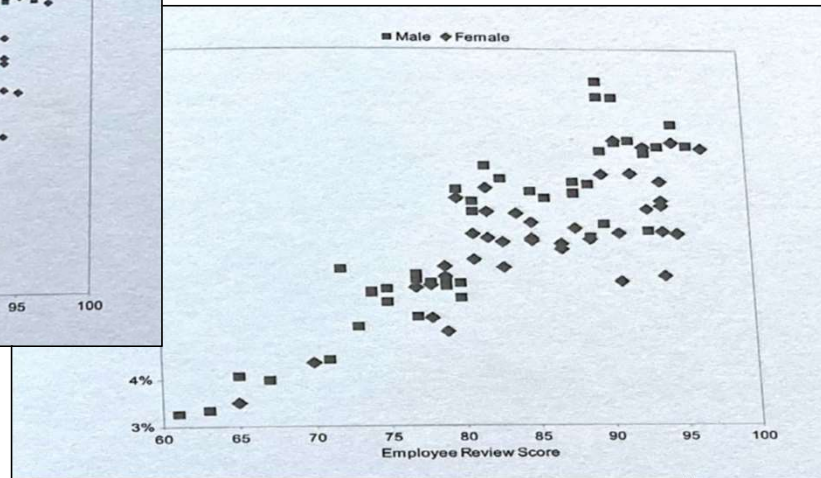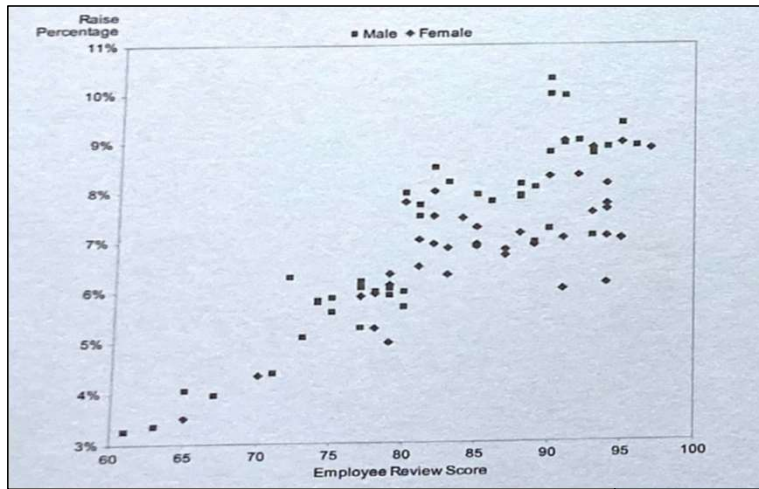
Darryl Ackley

CYBS505 – Fall 2022

From: *Show Me the Numbers, Stephen Few*

Terminology

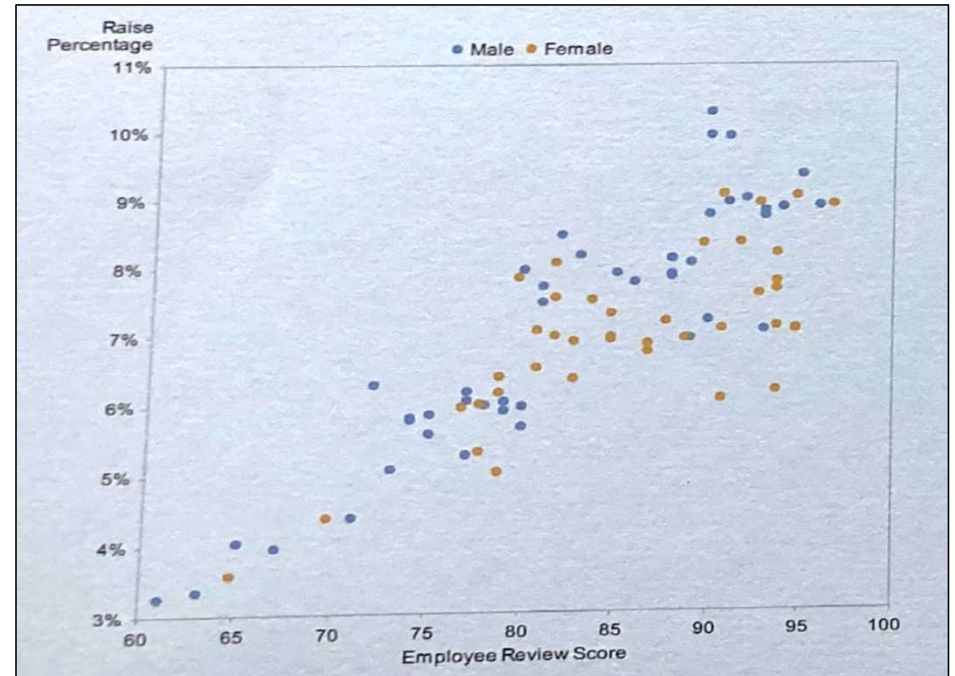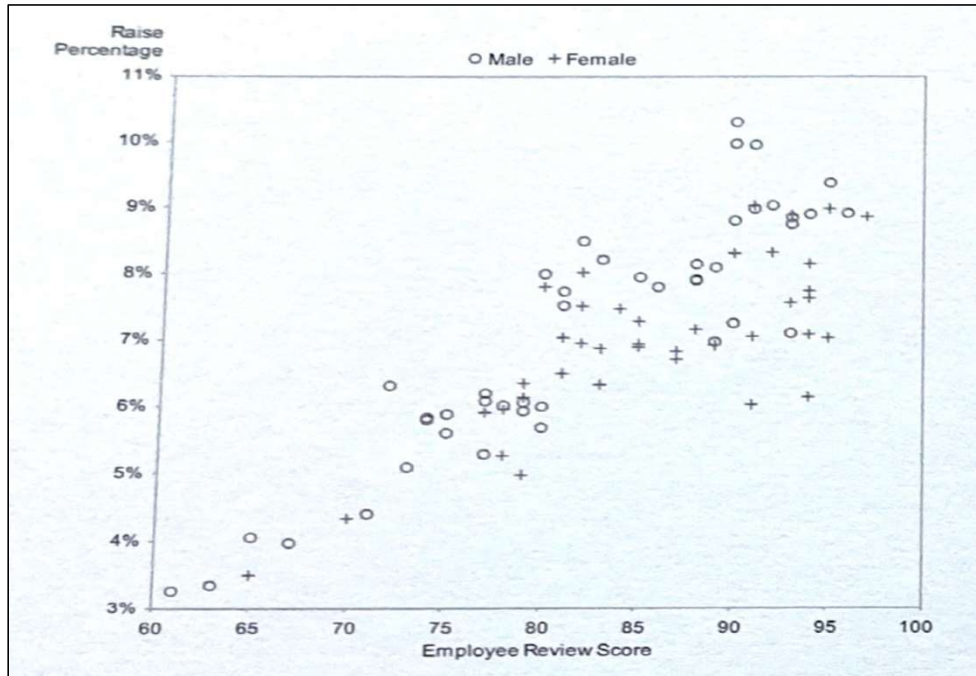FIGURE 10.1 This figure is designed to label the parts of a graph.

Primary Component Design: Points

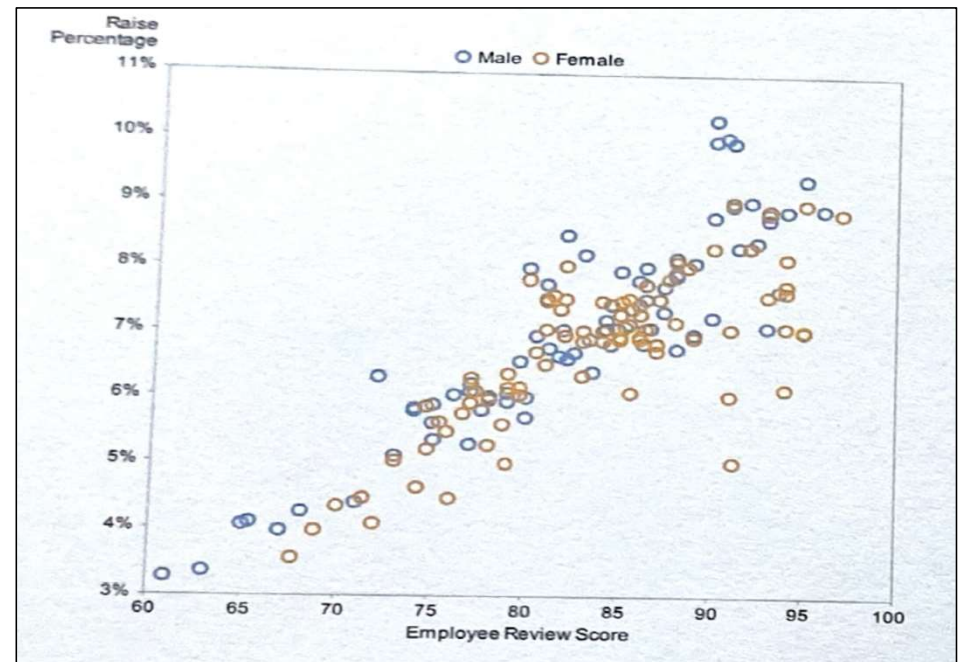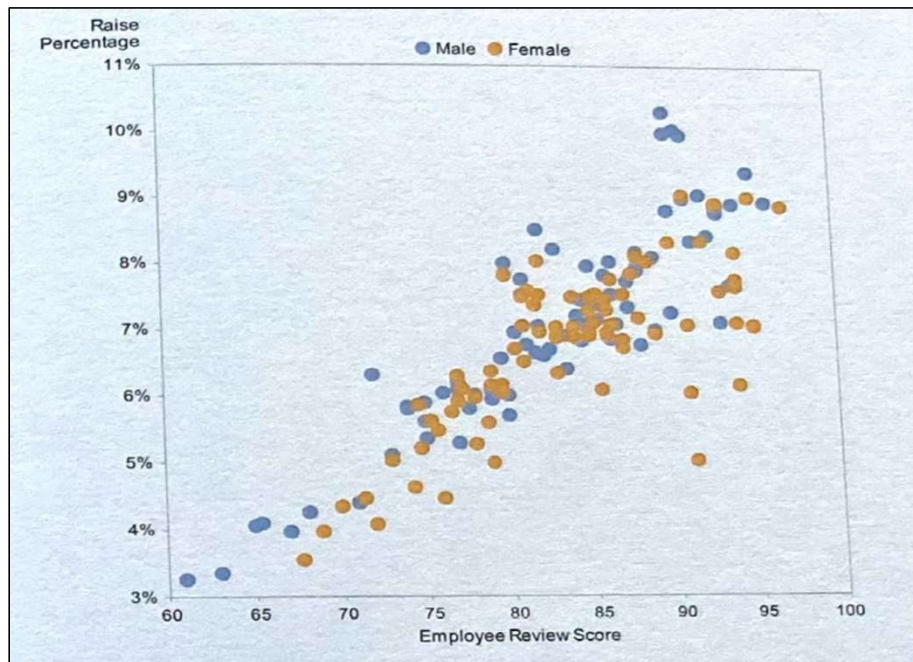# Primary Component Design: Points

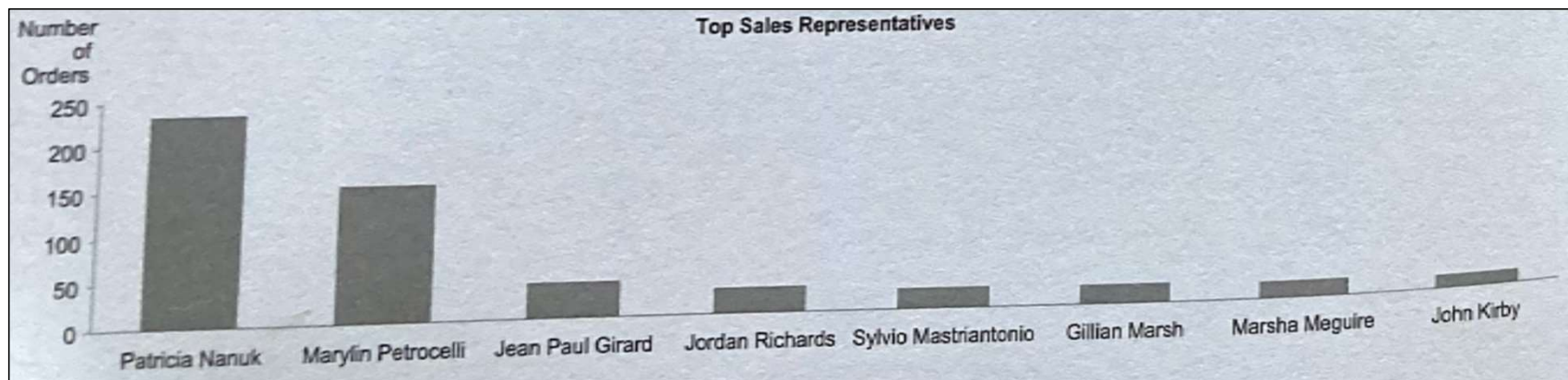- Additional Strategies: Shapes, Colors, Combined

Primary Design Components: Points

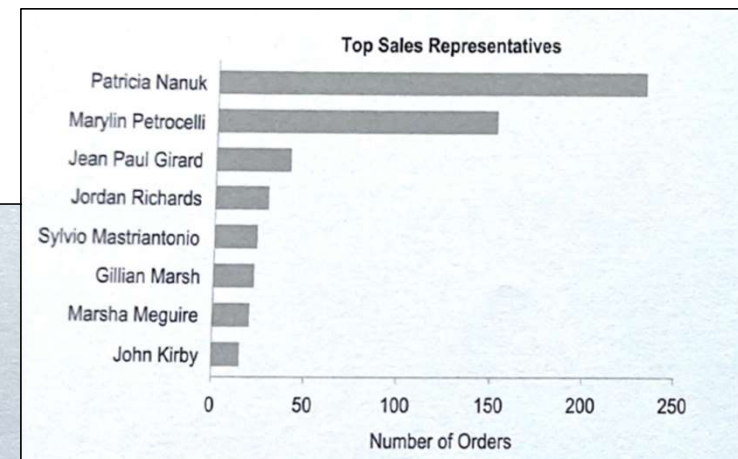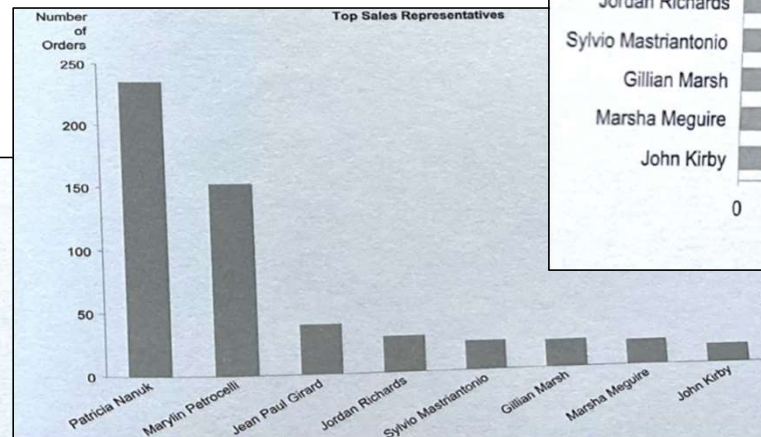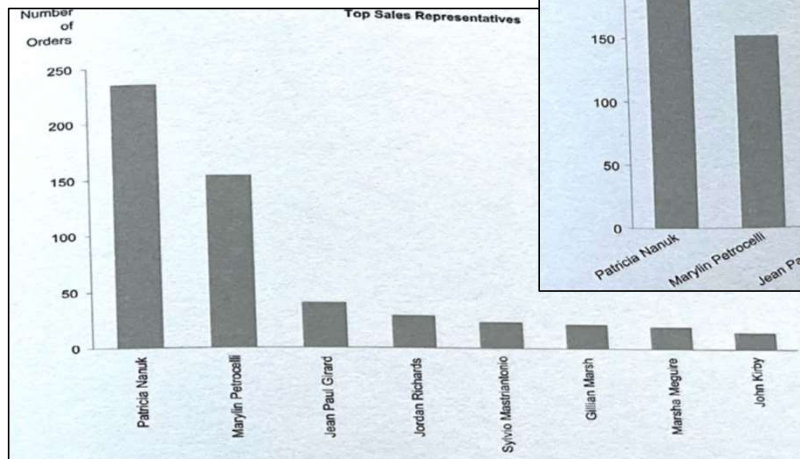- Problems: *over-plotting*

Primary Design Components: Bars

- Important characteristics:
    - Orientation
    - Proximity
    - Fills
    - Borders
    - Base value

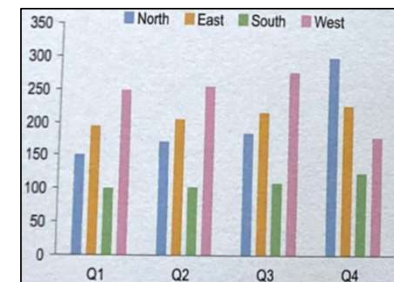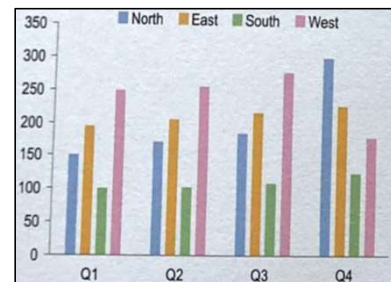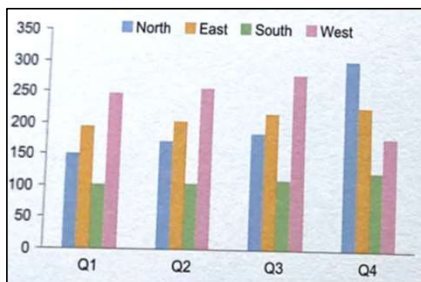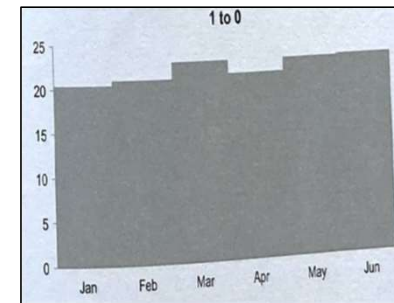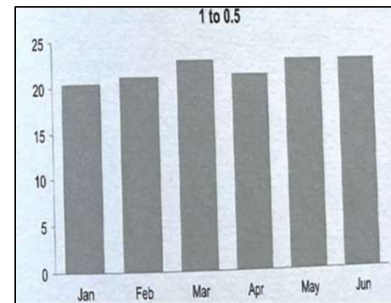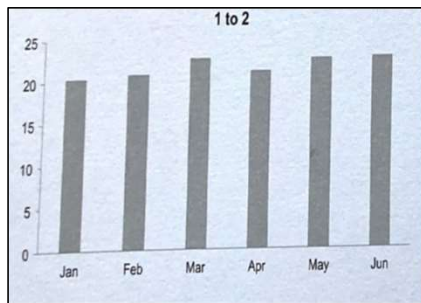# Primary Design Components: Bars

- X-axis Label Orientation
- *Note: exception for time*

Primary Design Components: Bars

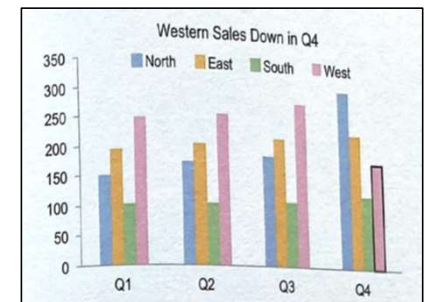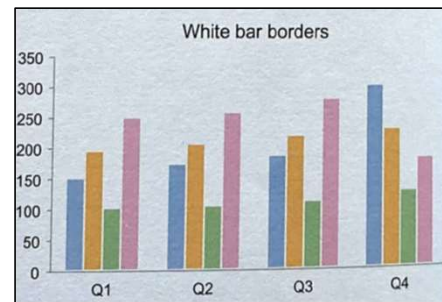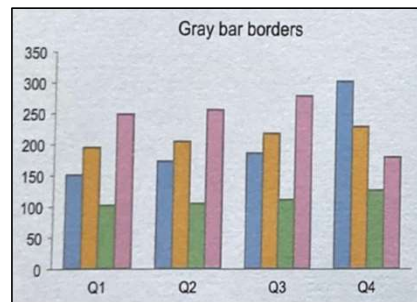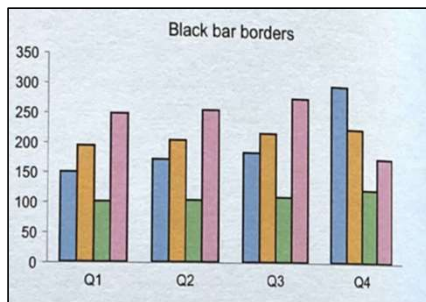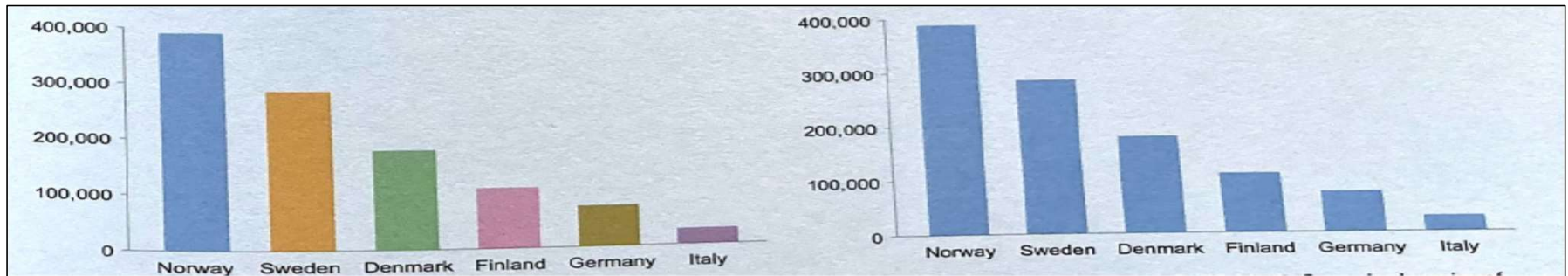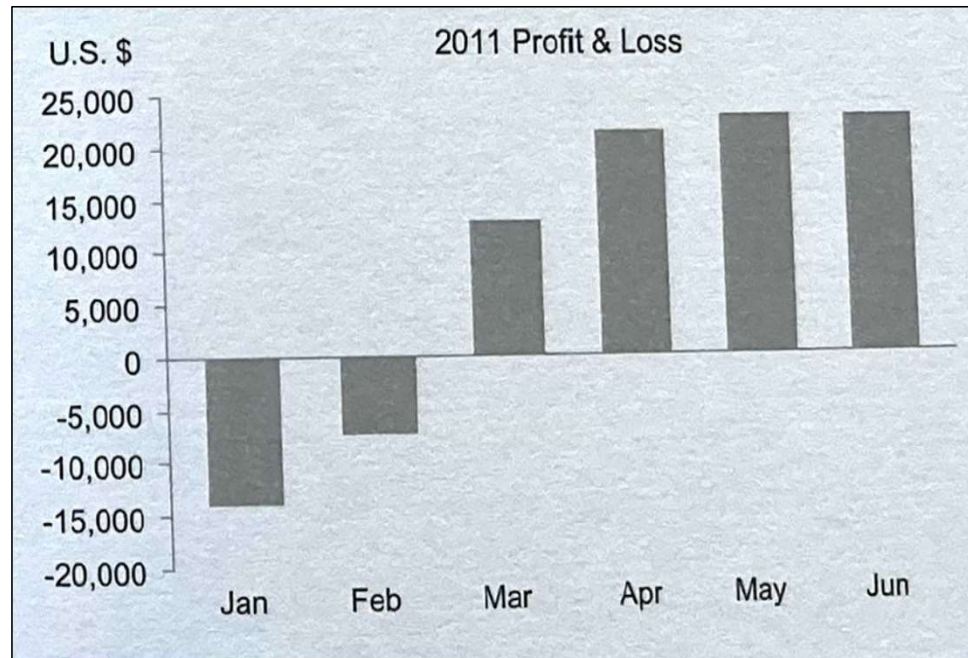• Spacing (Single / Multiple Categories)

Primary Design Components: Bars

- Fills and Borders

Primary Design Components: Bars
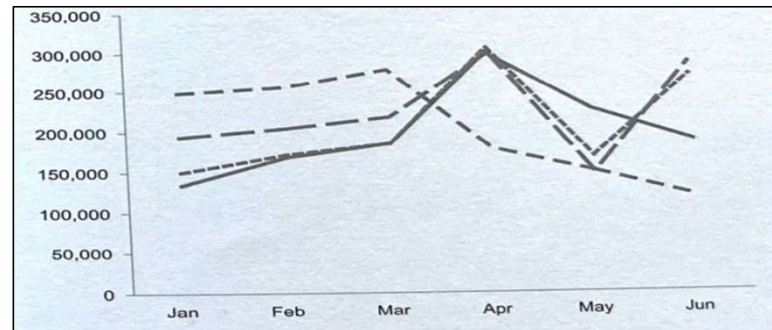
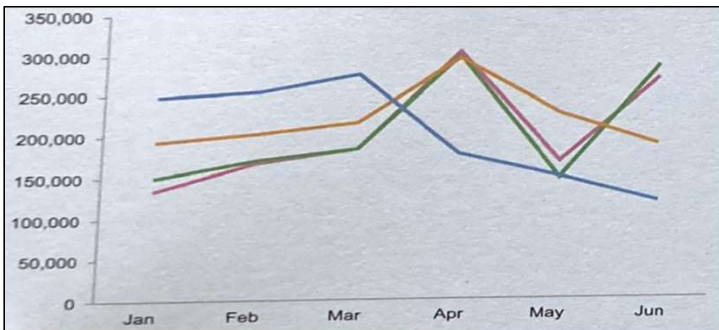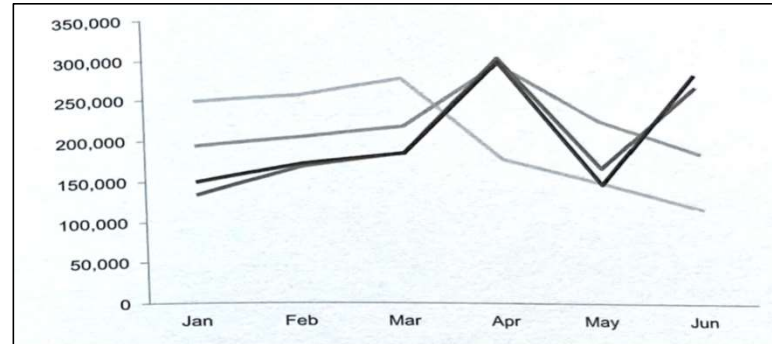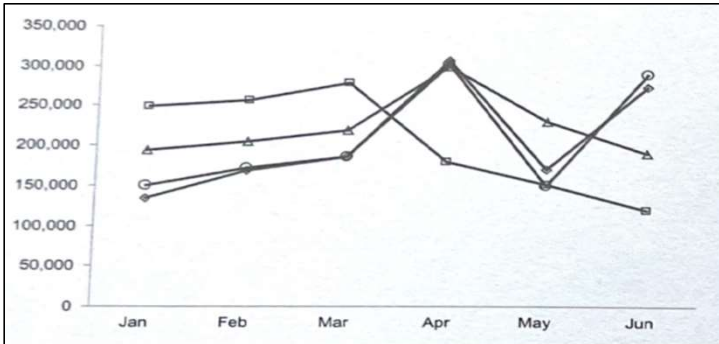- Base Value (*base* and *endpoint*)
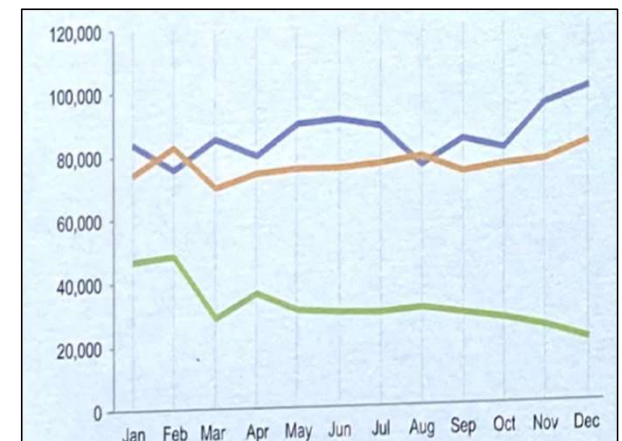
Primary Design Components: Bars
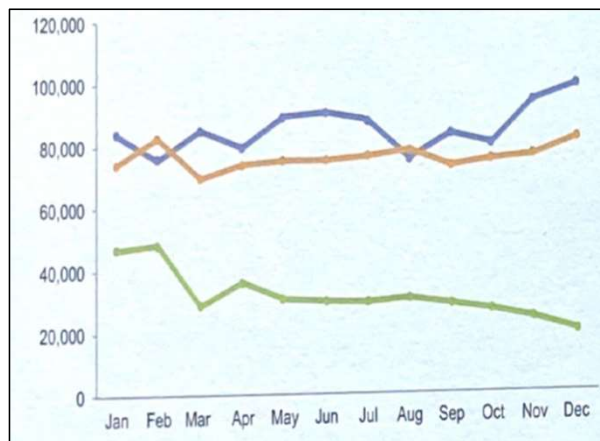
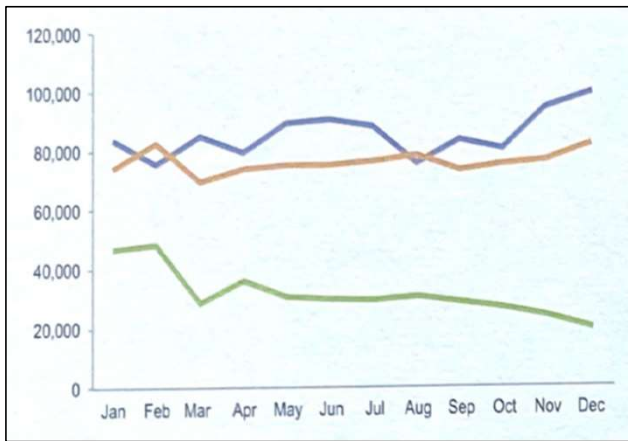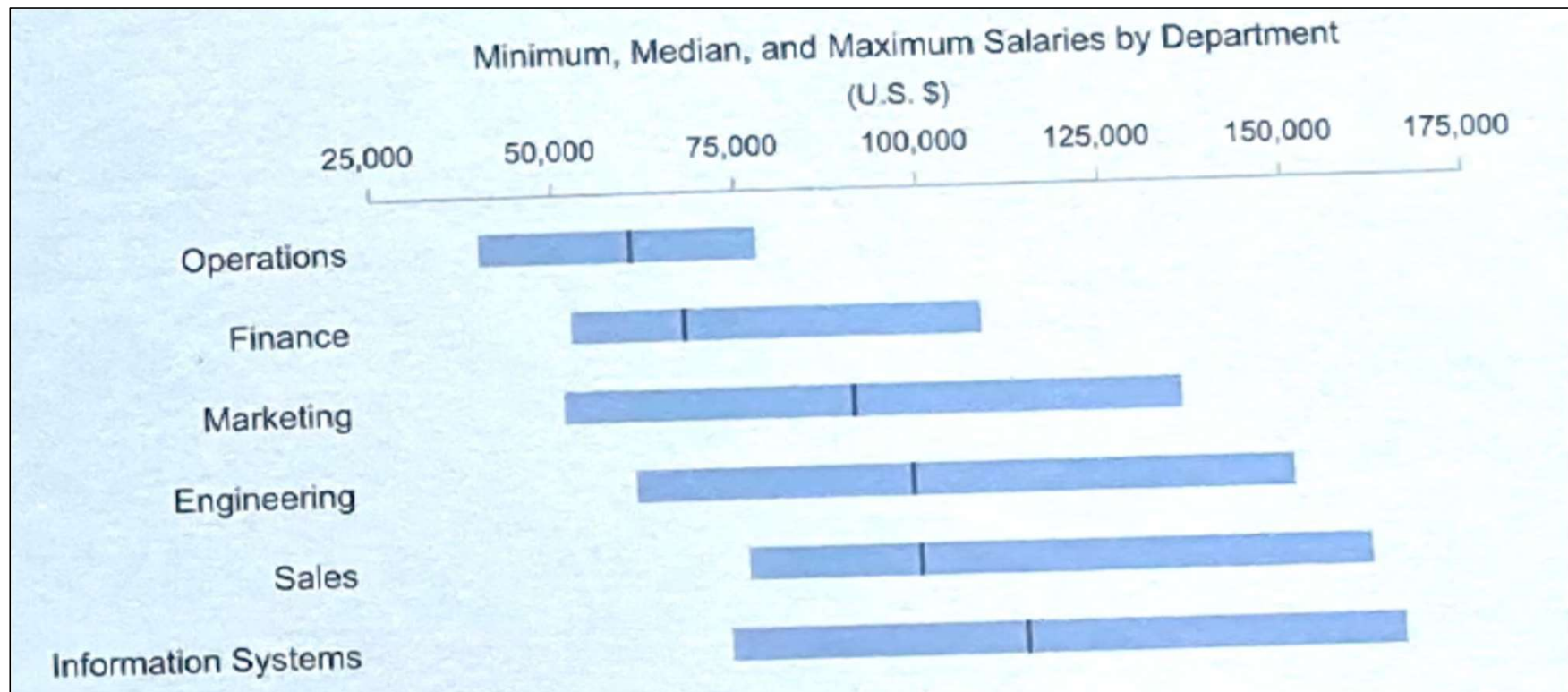# Primary Design Components: Lines

- Distinguishing Lines
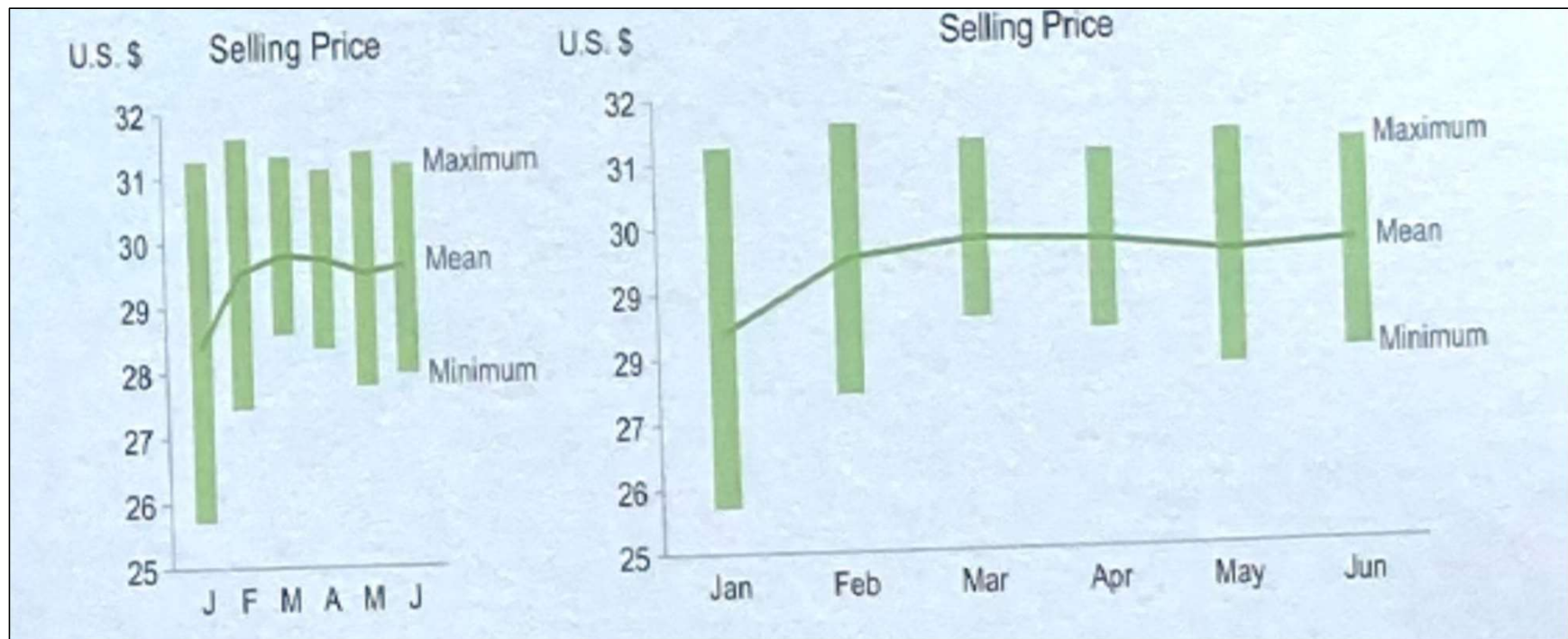
Primary Design Components: Lines
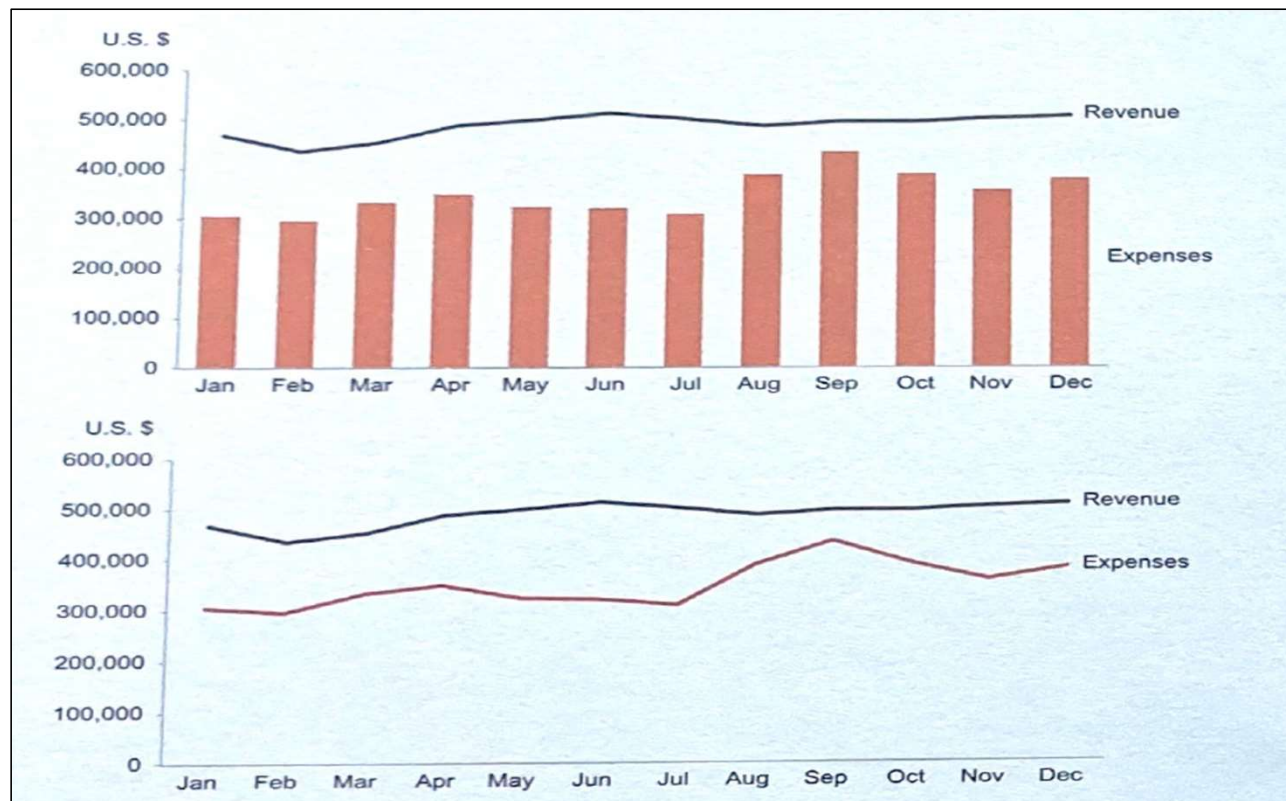
- Axis-oriented comparison strategies

Primary Design Components: Boxes

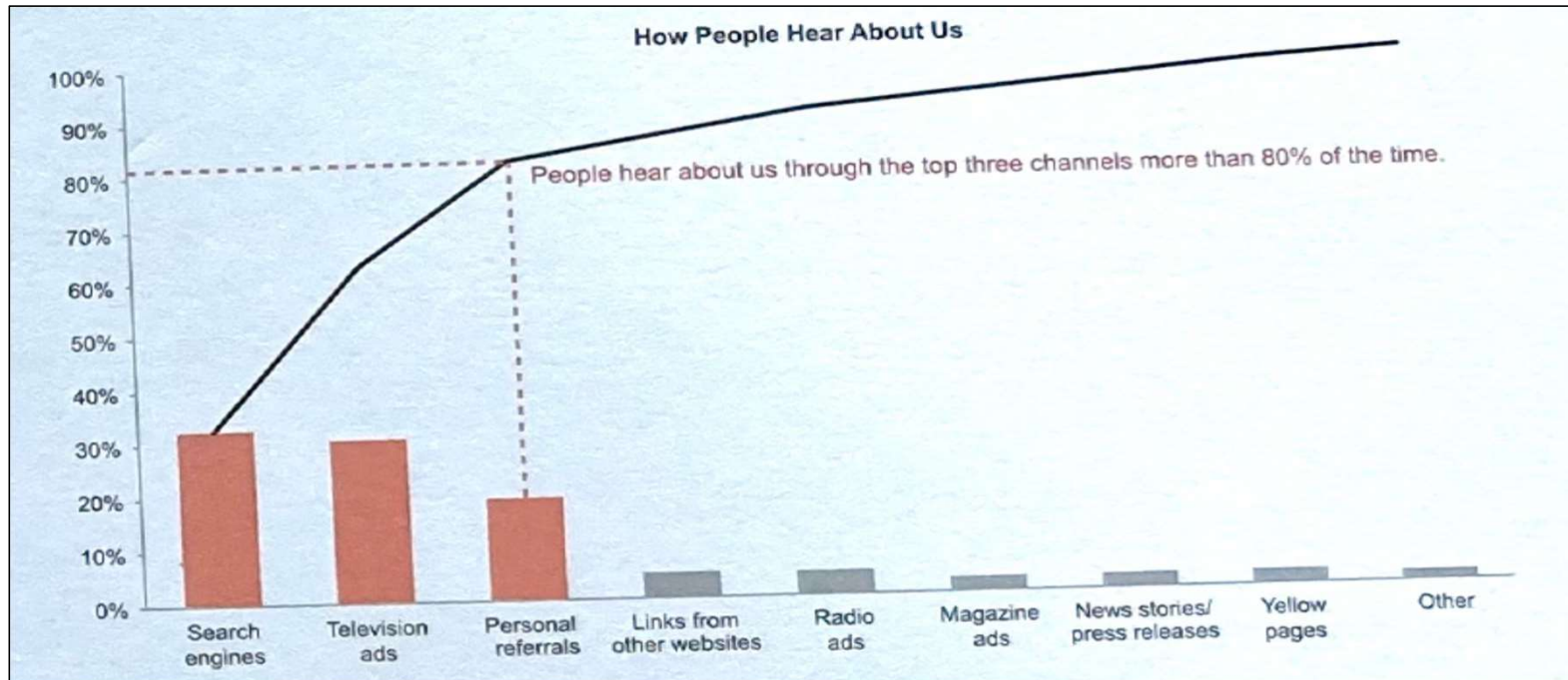# Primary Design Components: Boxes

Primary Design Components: Combinations

Primary Design Components: Combinations

- Pareto Charts

Primary Design Components: Combinations

- Bars and Points