

Which of the following visual channels is not a good choice for representing categorical values? and why? (there can be multiple answers)

1. Color hue
2. Motion
3. Shape
4. Color saturation

Answer color saturation because it gives the intuition of ordering in the data and motions as animations are not recommended

Which among these cannot visualize grouping

1. Connection
2. Containment
3. Proximity
4. Similarity
5. None of the above

Answer (5)

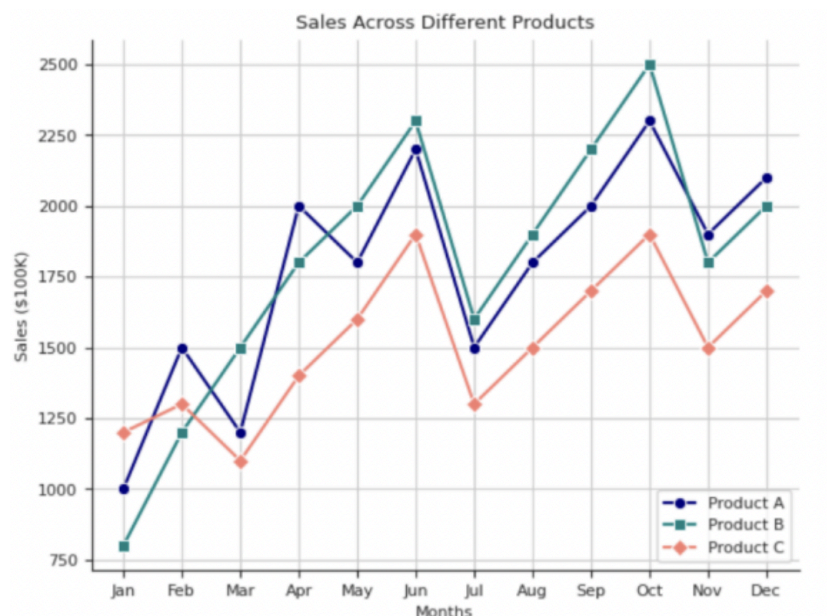


Figure 1

In figure 1, State which mark type and which visual channels are being used to visually encode which attributes.

Marks - points and lines

Channels

- vertical position of the points encodes sales.
- horizontal position of the points encode month.
- tilt encodes rate of increase/decrease of sales.
- Color encodes different products

Specify two abstract tasks for which this visual encoding in figure 1 would be effective.

Look up values

Identifying and comparing trends.

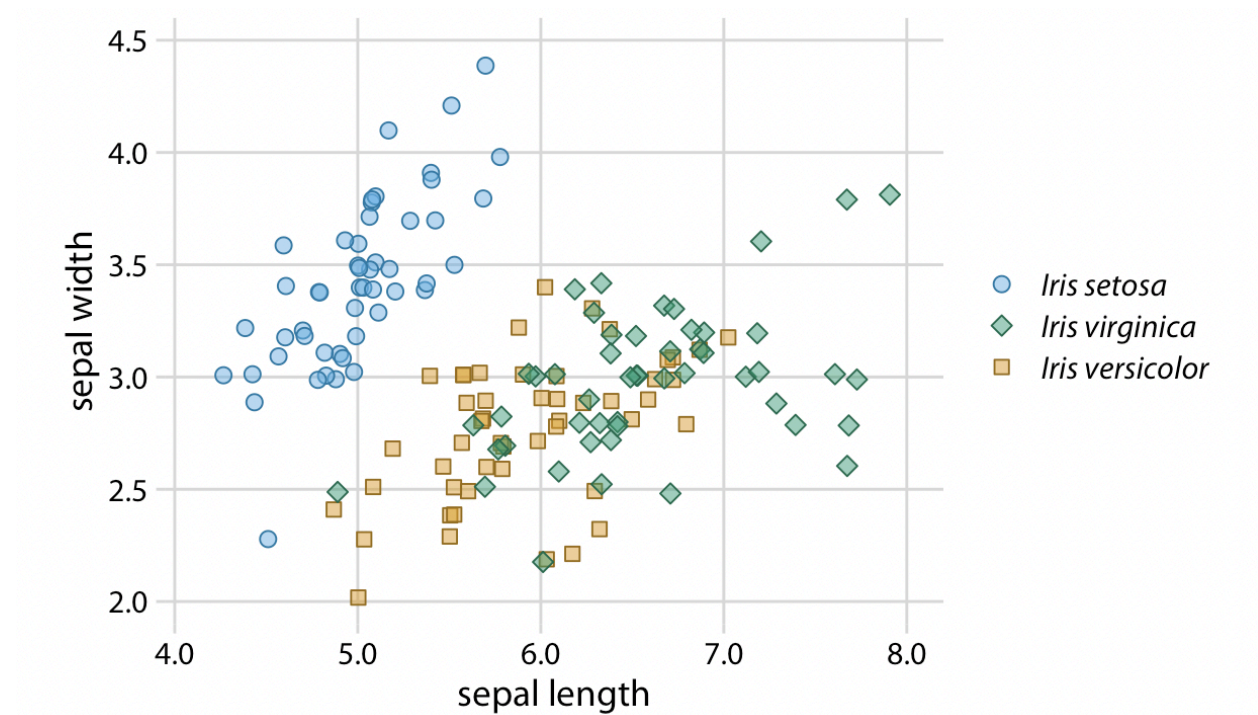


Figure 2

In figure 2, State which mark type and which visual channels are being used to visually encode which attributes.

Marks - points

Channels

- x for sepal length
- Y for sepal width
- Color for category
- Shape for category

State if any attributes are redundantly coded with more than one channel. What are those visual channels

Category is redundantly encoded using color and shape of points.