

# METADATA

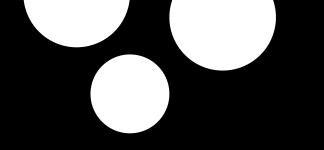
# Transforming the Datatype

| pl         | given location on the planar dimensions   |
|------------|---|
| si         | variations in height, width, area   |
| va         | the various degrees between white and black   |
| te         | variation in the fineness or coarseness of an area having a given value; includes blur  |
| со         | hue, using the repertoire of colored sensations which can be produced at equal value  |
| or         | various orientations, ranging from the vertical to the horizontal in a distinct direction   |
| sh         | a mark with a constant size can nonetheless have an infinite number of different shapes   |
| reflection | indicates the work contains an image given back by a reflecting surface, or an image seen in a mirror or shiny surface                                    |
| ро         | A POINT represents a location on the plane that has no theoretical length or area. This signification is independent of the size and character of the mai |
| li         | A LINE signifies a phenomenon on the plane which has measurable length but no area. This signification is independent of the width and characteristic     |
| ar         | An AREA signifies something on the plane that has a measurable size. This signification applies to the entire area covered by the visible mark.           |
| notes      | notes, description  |

In order to read in the metadata, we will need to transform the <u>datatype</u>.

### Out[30]:

|   | artist             | country_of_origin | date | reflection | notes  |
|---|--------------------|-------------------|------|------------|--|
| 0 | Giorgio de Chirico | Italy             | 1913 | False      | distorted perspective, shadow, signification o |
| 1 | Giovanni Anselmo   | Italy             | 1967 | False      | hard to understand the viewpoint, sense of for |
| 2 | Milton Avery       | America           | 1958 | False      | flatish, textured shapes & specific colors-lin |
| 3 | Gillian Avery      | UK                | 1957 | False      | shapes, layers, paint handlng/texture, orienta |
| 4 | Joseph (Jef) Banc  | France            | 1956 | False      | ambiguity through abstraction, odd shape, v te |



# **TRANSFORM**

# .ASTYPE(INT) > FROM BOOLEAN TO INTEGER

Part 2 Set (True, False) values to (1, 0)

Transform Data type for columns 'reflection' & 'has\_text'

### Convert data type in Featured Columns

```
In [147]: # Convert the "reflection" and "has_text" colums from True/False to 0,1
data['reflection'] = data['reflection'].astype(int)
data['has_text'] = data['has_text'].astype(int)
```

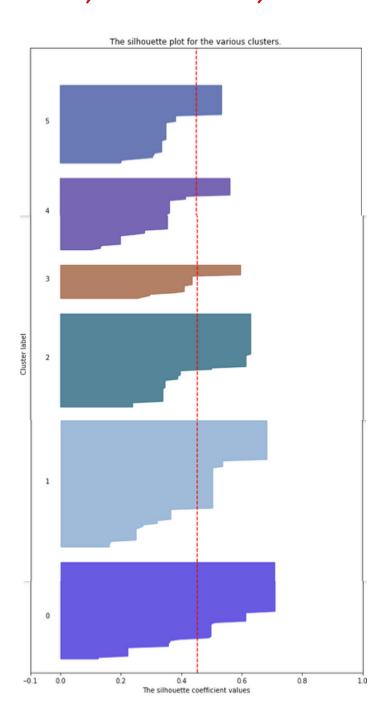


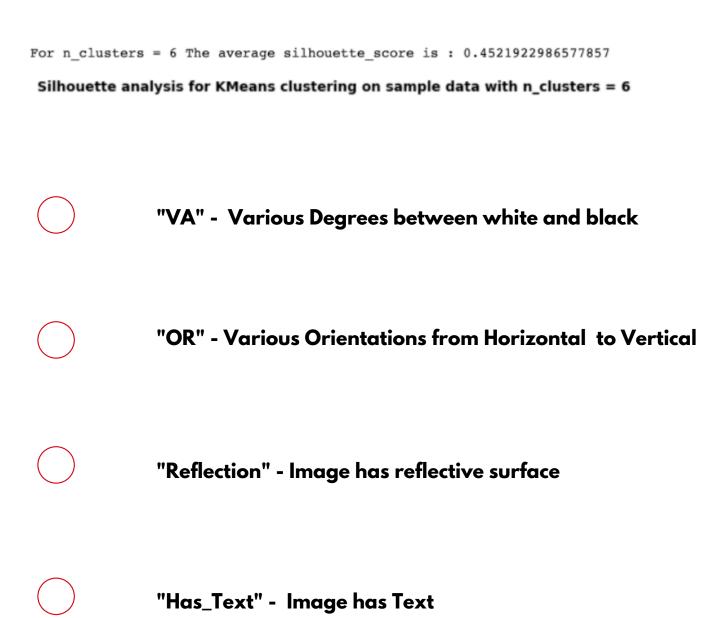
TRUE/FALSE — 1, 0

# 1500 - 1500 - 10 20 Nupri

# **Number of Clusters**

(5, 6, 7) - Decided on 6 Clusters Using Features: "va", "or", "reflection", and "has\_text"





# Clusters

Cluster 1









Cluster 2









Cluster 3









## Cluster 4









Cluster 5









Cluster 6







