Quiz: OpenCV and Python K-Means Color Clustering

Question #1: What does the k-means algorithm do?

A. Generates a random number of clusters
B. Partitions n data points into *k* clusters
C. Constructs a hierarchy of *k* clusters
D. Displays a bar chart of the dominant colors in an image

Question #2: As the value of *k* in k-means increases...

A. We'll find more color clusters in the image
B. We'll find less color clusters in the image
C. The value of *k* has no affect on the number of clusters returned by k-means
D. The k-means algorithm will run substantially faster

Question #3: What Python library to we use for our k-means implementation?

A. scikit-image
B. OpenCV
C. scikit-learn
D. mahotas

Question #4: The "out-of-the-box" implementation of k-means automatically selects the optimal number of clusters.

A. True
B. False

Answers: OpenCV and Python K-Means Color Clustering

Question #1: B
Question #2: A
Question #3: C
Question #4: A