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In[1]:
import matplotlib.pyplot as plt
import seaborn as sns
%matplotlib inline
For this example, we are going to create our data and then apply the algorithm to it.
In[2]:
from sklearn.datasets import make_blobs
data = make_blobs(n_samples = 500, n_features = 2,centers = 6, cluster_std = 1.8, random_state =
101)
In[3]:
plt.scatter(data[0][:,0],data[0][:,1],c=data[1],cmap='rainbow')
In[4]:
from sklearn.cluster import KMeans
model = KMeans(n_clusters=6)
model.fit(data[0])
In[5]:
f, (ax1, ax2) = plt.subplots(1, 2, sharey=True, figsize=(10,6))
ax1.set_title('K Means')
ax1.scatter(data[0][:,0], data[0][:,1], c=kmeans.labels_, cmap='rainbow')
ax2.set_title("Original")
ax2.scatter(data[0][:,0], data[0][:,1], c=data[1], cmap='rainbow')
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plt.ylabel('Sum of squared distance');