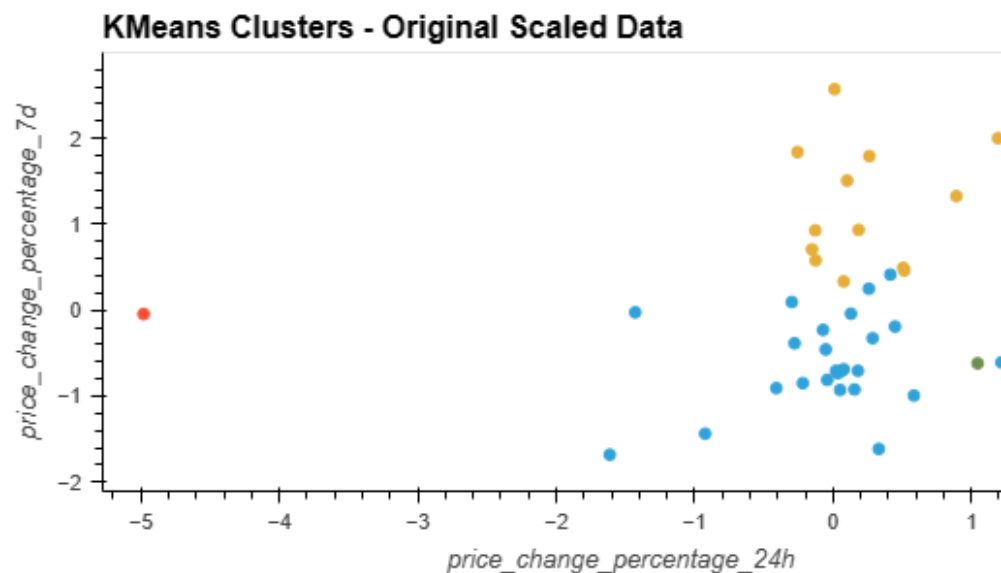


```

In [17]: ▶ 1 # Create a scatter plot using hvPlot by setting
2 # `x="price_change_percentage_24h"` and `y="price_change_percentage_7d"`.
3 # Color the graph points with the labels found using K-Means and
4 # add the crypto name in the `hover_cols` parameter to identify
5 # the cryptocurrency represented by each data point.
6 k_plot = df_crypto_predictions.hvplot.scatter(
7     x="price_change_percentage_24h",
8     y="price_change_percentage_7d",
9     title="KMeans Clusters - Original Scaled Data",
10    by='clusters',
11    hover_cols='coin_id'
12 )
13 k_plot

```

Out[17]:



UPDATE Read [the migration plan](#) to Notebook 7 to learn about the new features and the actions to take if you are using ex

jupyter Crypto_Clustering (unsav

File Edit View Insert Cell Kernel

Run

```
In [26]: 1 # Plot a Line chart
2 # the different val
3 pca_elbow = df_elbo
4     x="k",
5     y="inertia_pca"
6     title="Elbow Cu
7     color='red',
8     xticks=k
9 )
10 pca_elbow
```

Out[26]:

250
200
150
100
50
0

inertia_pca

Answer the following questions

- **Question:** What is the best v
 - **Answer:** the best k val
- **Question:** Does it differ from
 - **Answer:** No, the original

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jupyter Crypto_Clustering (unsav

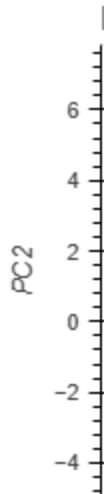
File Edit View Insert Cell Kernel

Run

ethereum	-0.458261	0.45
tether	-0.433070	-0.16
ripple	-0.471835	-0.22
bitcoin-cash	-1.157800	2.04

```
In [31]: 1 # Create a scatter
          2 # `x="PC1"` and `y=
          3 # Color the graph p
          4 # add the crypto na
          5 # the cryptocurrenc
          6 pca_plot = df_crypt
          7     x="PC1",
          8     y="PC2",
          9     title="KMeans C
         10     by='clusters',
         11     hover_cols='coi
         12 )
         13 pca_plot
```

Out[31]:



UPDATE Read [the migration plan](#) to Notebook 7 to learn about the new features and the actions to take if you are using ex

jupyter Crypto_Clustering (unsav

File Edit View Insert Cell Kernel

Run

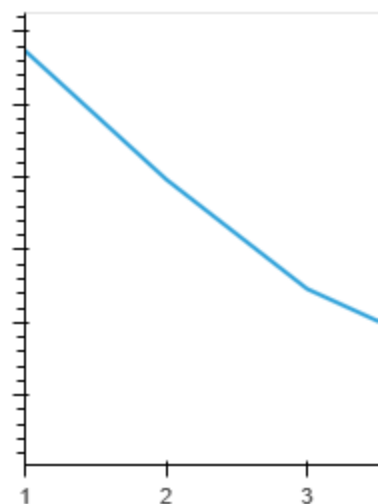
Visualize and Compare t

In this section, you will visually an

```
In [33]: 1 # Composite plot to  
2 composite_scatter_d  
3 composite_scatter_d
```

Out[33]:

Elbow Curve - Scaled D

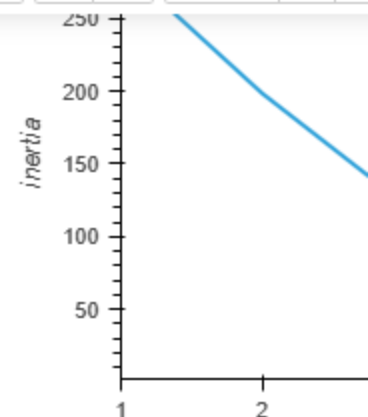


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jupyter Crypto_Clustering (autos

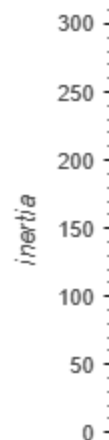
File Edit View Insert Cell Kernel

Run



```
In [37]: 1 # Composite plot to
2 composite_scatter_c
3 composite_scatter_c
4
5 )
6
```

Out[37]:



UPDATE Read [the migration plan](#) to Notebook 7 to learn about the new features and the actions to take if you are using ex

jupyter Crypto_Clustering (unsav

File Edit View Insert Cell Kernel

Run

inertia
300
250
200
150
100
50
0

```
In [39]: 1 # Composite plot to  
2 # Side by side plot  
3 k_plot + pca_plot
```

Out[39]:

KMeans Clusters

price_change_percentage_7d

