

Clustering Crypto

Installing External Libraries

In [1]:

```
# Install the altair plotting library: https://altair-viz.github.io/
!pip install -U altair
```

```
Requirement already up-to-date: altair in /home/ec2-user/anaconda3/envs/pytho
n3/lib/python3.6/site-packages (3.2.0)
Requirement not upgraded as not directly required: numpy in /home/ec2-user/an
aconda3/envs/python3/lib/python3.6/site-packages (from altair) (1.14.3)
Requirement not upgraded as not directly required: entrypoints in /home/ec2-u
ser/anaconda3/envs/python3/lib/python3.6/site-packages (from altair) (0.2.3)
Requirement not upgraded as not directly required: jsonschema in /home/ec2-us
er/anaconda3/envs/python3/lib/python3.6/site-packages (from altair) (2.6.0)
Requirement not upgraded as not directly required: jinja2 in /home/ec2-user/a
naconda3/envs/python3/lib/python3.6/site-packages (from altair) (2.10)
Requirement not upgraded as not directly required: pandas in /home/ec2-user/a
naconda3/envs/python3/lib/python3.6/site-packages (from altair) (0.24.2)
Requirement not upgraded as not directly required: toolz in /home/ec2-user/an
aconda3/envs/python3/lib/python3.6/site-packages (from altair) (0.9.0)
Requirement not upgraded as not directly required: six in /home/ec2-user/anac
onda3/envs/python3/lib/python3.6/site-packages (from altair) (1.11.0)
Requirement not upgraded as not directly required: MarkupSafe>=0.23 in /home/
ec2-user/anaconda3/envs/python3/lib/python3.6/site-packages (from jinja2->alt
air) (1.0)
Requirement not upgraded as not directly required: python-dateutil>=2.5.0 in
/home/ec2-user/anaconda3/envs/python3/lib/python3.6/site-packages (from panda
s->altair) (2.7.3)
Requirement not upgraded as not directly required: pytz>=2011k in /home/ec2-u
ser/anaconda3/envs/python3/lib/python3.6/site-packages (from pandas->altair)
(2018.4)
```

You are using pip version 10.0.1, however version 19.2.3 is available.

You should consider upgrading via the 'pip install --upgrade pip' command.

In [2]:

```
# Initial imports
import requests
import pandas as pd
import altair as alt
from pathlib import Path
from sklearn.preprocessing import StandardScaler, MinMaxScaler
from sklearn.decomposition import PCA
from sklearn.cluster import KMeans
```

Fetching Cryptocurrency Data

In []:

```
# Use the following endpoint to fetch json data
url = "https://min-api.cryptocompare.com/data/all/coinlist"
response = requests.get(url).json()
```

In []:

```
# Create a DataFrame
crypto_df = pd.DataFrame(response['Data']).T
crypto_df.head()
```

In []:

```
# Alternatively, use the provided csv file:
# file_path = Path("Resources/crypto_data.csv")

# Create a DataFrame
# crypto_df = pd.read_csv(file_path, index_col=0)
# crypto_df.head(10)
```

Data Preprocessing

In [3]:

```
# Keep only necessary columns:
# 'CoinName', 'Algorithm', 'IsTrading', 'ProofType', 'TotalCoinsMined', 'TotalCoinSupply'
crypto_df=crypto_df[['CoinName', 'Algorithm', 'IsTrading', 'ProofType', 'TotalCoinsMined', 'TotalCoinSupply']]
crypto_df.head(10)
```

Out[3]:

	CoinName	Algorithm	IsTrading	ProofType	TotalCoinsMined	TotalCoinSupply
42	42 Coin	Script	True	PoW/PoS	4.199995e+01	42
365	365Coin	X11	True	PoW/PoS	NaN	2300000000
404	404Coin	Script	True	PoW/PoS	1.055185e+09	532000000
611	SixEleven	SHA-256	True	PoW	NaN	611000
808	808	SHA-256	True	PoW/PoS	0.000000e+00	0
1337	EliteCoin	X13	True	PoW/PoS	2.927942e+10	314159265359
2015	2015 coin	X11	True	PoW/PoS	NaN	0
BTC	Bitcoin	SHA-256	True	PoW	1.792718e+07	21000000
ETH	Ethereum	Ethash	True	PoW	1.076842e+08	0
LTC	Litecoin	Script	True	PoW	6.303924e+07	84000000

In [4]:

```
# Keep only cryptocurrencies that are trading
crypto_df = crypto_df[crypto_df["IsTrading"] == True]
print(crypto_df.shape)
crypto_df.head(10)
```

(1144, 6)

Out[4]:

	CoinName	Algorithm	IsTrading	ProofType	TotalCoinsMined	TotalCoinSupply
42	42 Coin	Script	True	PoW/PoS	4.199995e+01	42
365	365Coin	X11	True	PoW/PoS	NaN	2300000000
404	404Coin	Script	True	PoW/PoS	1.055185e+09	532000000
611	SixEleven	SHA-256	True	PoW	NaN	611000
808	808	SHA-256	True	PoW/PoS	0.000000e+00	0
1337	EliteCoin	X13	True	PoW/PoS	2.927942e+10	314159265359
2015	2015 coin	X11	True	PoW/PoS	NaN	0
BTC	Bitcoin	SHA-256	True	PoW	1.792718e+07	21000000
ETH	Ethereum	Ethash	True	PoW	1.076842e+08	0
LTC	Litecoin	Script	True	PoW	6.303924e+07	84000000

In [5]:

```
# Keep only cryptocurrencies with a working algorithm
crypto_df = crypto_df[crypto_df["Algorithm"] != "N/A"]
print(crypto_df.shape)
crypto_df.head(10)
```

(1144, 6)

Out[5]:

	CoinName	Algorithm	IsTrading	ProofType	TotalCoinsMined	TotalCoinSupply
42	42 Coin	Scrypt	True	PoW/PoS	4.199995e+01	42
365	365Coin	X11	True	PoW/PoS	NaN	2300000000
404	404Coin	Scrypt	True	PoW/PoS	1.055185e+09	532000000
611	SixEleven	SHA-256	True	PoW	NaN	611000
808	808	SHA-256	True	PoW/PoS	0.000000e+00	0
1337	EliteCoin	X13	True	PoW/PoS	2.927942e+10	314159265359
2015	2015 coin	X11	True	PoW/PoS	NaN	0
BTC	Bitcoin	SHA-256	True	PoW	1.792718e+07	21000000
ETH	Ethereum	Ethash	True	PoW	1.076842e+08	0
LTC	Litecoin	Scrypt	True	PoW	6.303924e+07	84000000

In [6]:

```
# Remove the "IsTrading" column
crypto_df.drop("IsTrading", axis=1, inplace=True)
print(crypto_df.shape)
crypto_df.head(10)
```

(1144, 5)

Out[6]:

	CoinName	Algorithm	ProofType	TotalCoinsMined	TotalCoinSupply
42	42 Coin	Scrypt	PoW/PoS	4.199995e+01	42
365	365Coin	X11	PoW/PoS	NaN	2300000000
404	404Coin	Scrypt	PoW/PoS	1.055185e+09	532000000
611	SixEleven	SHA-256	PoW	NaN	611000
808	808	SHA-256	PoW/PoS	0.000000e+00	0
1337	EliteCoin	X13	PoW/PoS	2.927942e+10	314159265359
2015	2015 coin	X11	PoW/PoS	NaN	0
BTC	Bitcoin	SHA-256	PoW	1.792718e+07	21000000
ETH	Ethereum	Ethash	PoW	1.076842e+08	0
LTC	Litecoin	Scrypt	PoW	6.303924e+07	84000000

In [7]:

```
# Remove rows with at least 1 null value
crypto_df = crypto_df.dropna(axis=0, how="any")
print(crypto_df.shape)
crypto_df.head(10)
```

(685, 5)

Out[7]:

	CoinName	Algorithm	ProofType	TotalCoinsMined	TotalCoinSupply
42	42 Coin	Scrypt	PoW/PoS	4.199995e+01	42
404	404Coin	Scrypt	PoW/PoS	1.055185e+09	532000000
808	808	SHA-256	PoW/PoS	0.000000e+00	0
1337	EliteCoin	X13	PoW/PoS	2.927942e+10	314159265359
BTC	Bitcoin	SHA-256	PoW	1.792718e+07	21000000
ETH	Ethereum	Ethash	PoW	1.076842e+08	0
LTC	Litecoin	Scrypt	PoW	6.303924e+07	84000000
DASH	Dash	X11	PoW/PoS	9.031294e+06	22000000
XMR	Monero	CryptoNight-V7	PoW	1.720114e+07	0
ETC	Ethereum Classic	Ethash	PoW	1.133597e+08	210000000

In [8]:

```
# Remove rows with cryptocurrencies without having no coins mined
crypto_df = crypto_df[crypto_df["TotalCoinsMined"] > 0]
print(crypto_df.shape)
crypto_df.head(10)
```

(532, 5)

Out[8]:

	CoinName	Algorithm	ProofType	TotalCoinsMined	TotalCoinSupply
42	42 Coin	Scrypt	PoW/PoS	4.199995e+01	42
404	404Coin	Scrypt	PoW/PoS	1.055185e+09	532000000
1337	EliteCoin	X13	PoW/PoS	2.927942e+10	314159265359
BTC	Bitcoin	SHA-256	PoW	1.792718e+07	21000000
ETH	Ethereum	Ethash	PoW	1.076842e+08	0
LTC	Litecoin	Scrypt	PoW	6.303924e+07	84000000
DASH	Dash	X11	PoW/PoS	9.031294e+06	22000000
XMR	Monero	CryptoNight-V7	PoW	1.720114e+07	0
ETC	Ethereum Classic	Ethash	PoW	1.133597e+08	210000000
ZEC	ZCash	Equihash	PoW	7.383056e+06	21000000

In [9]:

```
# Drop rows where there are 'N/A' text values
crypto_df = crypto_df[crypto_df.iloc[:,] != 'N/A'].dropna()
crypto_df.head(10)
```

(532, 1)

Out[9]:

	CoinName
42	42 Coin
404	404Coin
1337	EliteCoin
BTC	Bitcoin
ETH	Ethereum

In [10]:

```
# Store the 'CoinName' column in its own DataFrame prior to dropping it from crypto_df
coins_name = pd.DataFrame(crypto_df["CoinName"], index=crypto_df.index)
print(coins_name.shape)
coins_name.head()
```

(532, 4)

Out[10]:

	Algorithm	ProofType	TotalCoinsMined	TotalCoinSupply
42	Scrypt	PoW/PoS	4.199995e+01	42
404	Scrypt	PoW/PoS	1.055185e+09	532000000
1337	X13	PoW/PoS	2.927942e+10	314159265359
BTC	SHA-256	PoW	1.792718e+07	21000000
ETH	Ethash	PoW	1.076842e+08	0
LTC	Scrypt	PoW	6.303924e+07	84000000
DASH	X11	PoW/PoS	9.031294e+06	22000000
XMR	CryptoNight-V7	PoW	1.720114e+07	0
ETC	Ethash	PoW	1.133597e+08	210000000
ZEC	Equihash	PoW	7.383056e+06	21000000

In [11]:

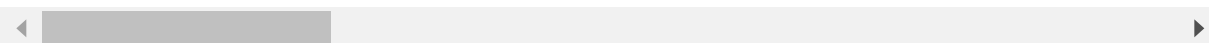
```
# Drop the 'CoinName' column since it's not going to be used on the clustering algorithm
crypto_df = crypto_df.drop("CoinName", axis=1)
print(crypto_df.shape)
crypto_df.head(10)
```

(532, 98)

Out[11]:

	TotalCoinsMined	TotalCoinSupply	Algorithm_1GB AES Pattern Search	Algorithm_536	Algorithm_Argon2d	Al
42	4.199995e+01	42	0	0	0	
404	1.055185e+09	532000000	0	0	0	
1337	2.927942e+10	314159265359	0	0	0	
BTC	1.792718e+07	21000000	0	0	0	
ETH	1.076842e+08	0	0	0	0	
LTC	6.303924e+07	84000000	0	0	0	
DASH	9.031294e+06	22000000	0	0	0	
XMR	1.720114e+07	0	0	0	0	
ETC	1.133597e+08	210000000	0	0	0	
ZEC	7.383056e+06	21000000	0	0	0	

10 rows × 98 columns



In [12]:

```
# Create dummy variables for text features  
X = pd.get_dummies(data=crypto_df, columns=["Algorithm", "ProofType"])  
print(X.shape)  
X.head(10)
```

```
/home/ec2-user/anaconda3/envs/python3/lib/python3.6/site-packages/sklearn/pre  
processing/data.py:645: DataConversionWarning: Data with input dtype uint8, f  
loat64, object were all converted to float64 by StandardScaler.
```

```
    return self.partial_fit(X, y)
```

```
/home/ec2-user/anaconda3/envs/python3/lib/python3.6/site-packages/sklearn/bas  
e.py:464: DataConversionWarning: Data with input dtype uint8, float64, object  
were all converted to float64 by StandardScaler.
```

```
    return self.fit(X, **fit_params).transform(X)
```

[illegible]

```

-0.0433963 , -0.0433963 , -0.0433963 , -0.0433963 , -0.07530656,
-0.43911856, -0.0433963 , -0.06142951, -0.0433963 , -0.0433963 ,
-0.89632016, -0.0433963 , -0.0433963 , 1.42222617, -0.0433963 ,
-0.0433963 , -0.0433963 , -0.0433963 , -0.0433963 , -0.0433963 ,
-0.0433963 , -0.0433963 , -0.0433963 ],
[-0.11671506, -0.15255998, -0.0433963 , -0.0433963 , -0.0433963 ,
-0.06142951, -0.07530656, -0.0433963 , -0.06142951, -0.06142951,
-0.0433963 , -0.0433963 , -0.19245009, -0.06142951, -0.09740465,
-0.0433963 , -0.11547005, -0.07530656, -0.0433963 , -0.0433963 ,
-0.15191091, -0.0433963 , -0.13118084, -0.0433963 , -0.0433963 ,
-0.08703883, -0.0433963 , -0.0433963 , -0.0433963 , -0.0433963 ,
-0.06142951, -0.0433963 , -0.08703883, -0.08703883, -0.08703883,
-0.0433963 , -0.13118084, -0.13840913, -0.13840913, -0.0433963 ,
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-0.0433963 , -0.0433963 , -0.07530656, -0.15826614, 3.17542648,
-0.0433963 , -0.08703883, -0.07530656, -0.06142951, -0.72111026,
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-0.0433963 , -0.0433963 , -0.0433963 , -0.0433963 , -0.0433963 ,
-0.0433963 , -0.39879994, -0.0433963 , -0.18168574, -0.0433963 ,
-0.08703883, -0.08703883, -0.10680283, -0.0433963 , -0.13118084,
-0.0433963 , -0.0433963 , -0.0433963 , -0.0433963 , -0.07530656,
-0.43911856, -0.0433963 , -0.06142951, -0.0433963 , -0.0433963 ,
1.11567277, -0.0433963 , -0.0433963 , -0.70312305, -0.0433963 ,
-0.0433963 , -0.0433963 , -0.0433963 , -0.0433963 , -0.0433963 ,
-0.0433963 , -0.0433963 , -0.0433963 ],
[-0.11474682, -0.1528703 , -0.0433963 , -0.0433963 , -0.0433963 ,
-0.06142951, -0.07530656, -0.0433963 , -0.06142951, -0.06142951,
-0.0433963 , -0.0433963 , -0.19245009, -0.06142951, -0.09740465,
-0.0433963 , -0.11547005, -0.07530656, -0.0433963 , -0.0433963 ,
-0.15191091, -0.0433963 , 7.62306442, -0.0433963 , -0.0433963 ,
-0.08703883, -0.0433963 , -0.0433963 , -0.0433963 , -0.0433963 ,
-0.06142951, -0.0433963 , -0.08703883, -0.08703883, -0.08703883,
-0.0433963 , -0.13118084, -0.13840913, -0.13840913, -0.0433963 ,
-0.06142951, -0.0433963 , -0.07530656, -0.18168574, -0.0433963 ,
-0.0433963 , -0.0433963 , -0.07530656, -0.15826614, -0.31491833,
-0.0433963 , -0.08703883, -0.07530656, -0.06142951, -0.72111026,
-0.0433963 , -0.0433963 , -0.06142951, -0.0433963 , -0.0433963 ,
-0.0433963 , -0.0433963 , -0.0433963 , -0.0433963 , -0.0433963 ,
-0.0433963 , -0.39879994, -0.0433963 , -0.18168574, -0.0433963 ,
-0.08703883, -0.08703883, -0.10680283, -0.0433963 , -0.13118084,
-0.0433963 , -0.0433963 , -0.0433963 , -0.0433963 , -0.07530656,
-0.43911856, -0.0433963 , -0.06142951, -0.0433963 , -0.0433963 ,
1.11567277, -0.0433963 , -0.0433963 , -0.70312305, -0.0433963 ,
-0.0433963 , -0.0433963 , -0.0433963 , -0.0433963 , -0.0433963 ,
-0.0433963 , -0.0433963 , -0.0433963 ]])

```

In []:

```

# Standardize data
X = StandardScaler().fit_transform(X)
X[:5]

```

Reducing Dimensions Using PCA

In [13]:

```
# Use PCA to reduce dimension to 3 principal components
n_comp = 3
pca = PCA(n_components=n_comp)
principal_components = pca.fit_transform(X)
principal_components
```

Out[13]:

```
array([[ -0.33730955,  1.08194557, -0.37668659],
       [ -0.32063105,  1.0821204 , -0.37716892],
       [  2.30347915,  1.65841599, -0.5079926 ],
       ...,
       [  0.31911641, -2.29451519,  0.31235355],
       [-0.16544195, -2.0718468 ,  0.15685175],
       [-0.29072706,  0.84564675, -0.15234827]])
```

In [14]:

```
# Create a DataFrame with the principal components data
col_names = [f"PC {i}" for i in range(1, n_comp + 1)]
pcs_df = pd.DataFrame(principal_components, columns=col_names, index=crypto_df.index)
print(pcs_df.shape)
pcs_df.head(10)
```

(532, 3)

Out[14]:

	PC 1	PC 2	PC 3
42	-0.337310	1.081946	-0.376687
404	-0.320631	1.082120	-0.377169
1337	2.303479	1.658416	-0.507993
BTC	-0.139675	-1.311413	0.135082
ETH	-0.149715	-2.036022	0.237966
LTC	-0.167853	-1.070010	0.018563
DASH	-0.390818	1.155356	-0.456691
XMR	-0.132352	-2.139376	0.255300
ETC	-0.148157	-2.036119	0.237942
ZEC	-0.165441	-2.071847	0.156852

Clustering Cryptocurrencies Using K-Means

Find the Best Value for k Using the Elbow Curve

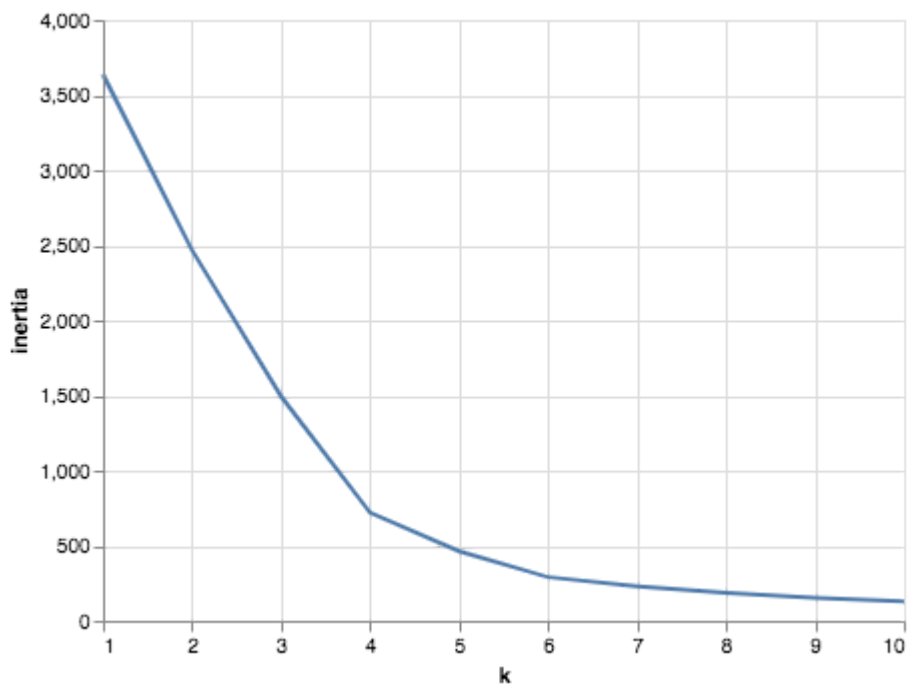
In [15]:

```
inertia = []
k = list(range(1, 11))

# Calculate the inertia for the range of k values
for i in k:
    km = KMeans(n_clusters=i, random_state=0)
    km.fit(pcs_df)
    inertia.append(km.inertia_)

# Create the Elbow Curve using hvPlot
elbow_data = {"k": k, "inertia": inertia}
df_elbow = pd.DataFrame(elbow_data)
alt.Chart(df_elbow).mark_line().encode(x="k", y="inertia")
```

Out[15]:



Running K-Means with k=4

In [16]:

```
# Initialize the K-Means model
model = KMeans(n_clusters=4, random_state=0)

# Fit the model
model.fit(pcs_df)

# Predict clusters
predictions = model.predict(pcs_df)

# Create a new DataFrame including predicted clusters and cryptocurrencies features
clustered_df = pd.concat([crypto_df, pcs_df], axis=1, sort=False)
clustered_df["CoinName"] = coins_name["CoinName"]
clustered_df["Class"] = model.labels_
print(clustered_df.shape)
clustered_df.head(10)
```

(532, 9)

Out[16]:

	Algorithm	ProofType	TotalCoinsMined	TotalCoinSupply	PC 1	PC 2	PC 3
42	Scrypt	PoW/PoS	4.199995e+01	42	-0.337310	1.081946	-0.376687
404	Scrypt	PoW/PoS	1.055185e+09	532000000	-0.320631	1.082120	-0.377169
1337	X13	PoW/PoS	2.927942e+10	314159265359	2.303479	1.658416	-0.507993
BTC	SHA-256	PoW	1.792718e+07	21000000	-0.139675	-1.311413	0.135082
ETH	Ethash	PoW	1.076842e+08	0	-0.149715	-2.036022	0.237966
LTC	Scrypt	PoW	6.303924e+07	84000000	-0.167853	-1.070010	0.018563
DASH	X11	PoW/PoS	9.031294e+06	22000000	-0.390818	1.155356	-0.456691
XMR	CryptoNight-V7	PoW	1.720114e+07	0	-0.132352	-2.139376	0.255300
ETC	Ethash	PoW	1.133597e+08	210000000	-0.148157	-2.036119	0.237942
ZEC	Equihash	PoW	7.383056e+06	21000000	-0.165441	-2.071847	0.156852

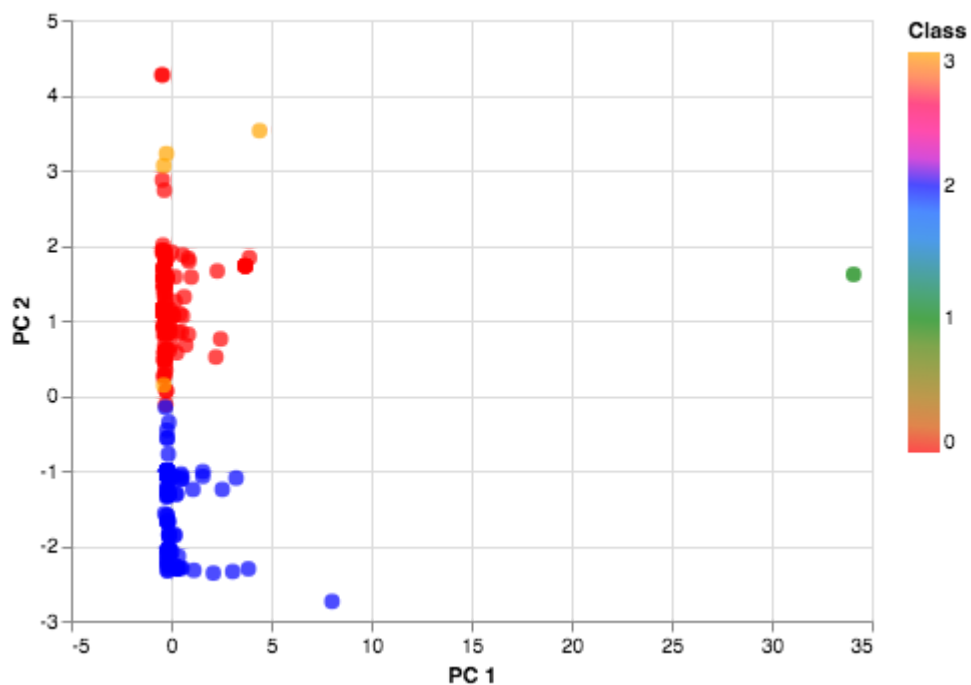
Visualizing Results

Scatter Plot for Clusters

In [17]:

```
# Scatter plot to visualize clusters using two principal components
alt.Chart(clustered_df).mark_circle(size=60).encode(
    x="PC 1",
    y="PC 2",
    color=alt.Color(
        "Class",
        scale=alt.Scale(domain=[0, 1, 2, 3], range=["red", "green", "blue", "orange"]),
    ),
    tooltip=["CoinName", "Algorithm", "TotalCoinsMined", "TotalCoinSupply"],
).interactive()
```

Out[17]:



Scatter Plot with Tradable Cryptocurrencies

In [18]:

```
# Scale data to create the scatter plot
mm_scaler = MinMaxScaler()
plot_data = mm_scaler.fit_transform(
    clustered_df[["TotalCoinSupply", "TotalCoinsMined"]]
)
plot_df = pd.DataFrame(
    plot_data, columns=["TotalCoinSupply", "TotalCoinsMined"], index=clustered_df.index
)
plot_df["CoinName"] = clustered_df["CoinName"]
plot_df["Class"] = clustered_df["Class"]
plot_df.head()
```

```
/home/ec2-user/anaconda3/envs/python3/lib/python3.6/site-packages/sklearn/pre
processing/data.py:334: DataConversionWarning: Data with input dtype float64,
object were all converted to float64 by MinMaxScaler.
    return self.partial_fit(X, y)
```

Out[18]:

	TotalCoinSupply	TotalCoinsMined	CoinName	Class
42	4.200000e-11	0.000000	42 Coin	0
404	5.320000e-04	0.001066	404Coin	0
1337	3.141593e-01	0.029576	EliteCoin	0
BTC	2.100000e-05	0.000018	Bitcoin	2
ETH	0.000000e+00	0.000109	Ethereum	2

In [19]:

```
# Plot the scatter with x="TotalCoinsMined" and y="TotalCoinSupply"
alt.Chart(plot_df).mark_circle(size=60).encode(
    x="TotalCoinsMined",
    y="TotalCoinSupply",
    color=alt.Color(
        "Class",
        scale=alt.Scale(domain=[0, 1, 2, 3], range=["red", "green", "blue", "orange"]),
    ),
    tooltip=["CoinName", "TotalCoinsMined", "TotalCoinSupply"],
).interactive()
```

Out[19]:

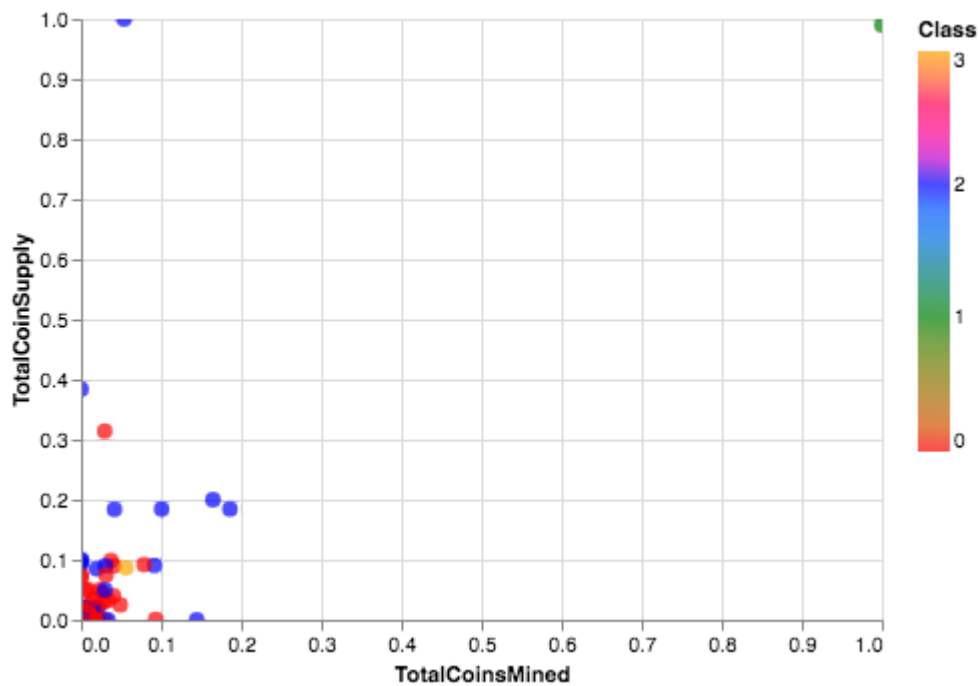


Table of Tradable Cryptocurrencies

In [20]:

```
# Table with tradable cryptos
with pd.option_context("display.max_rows", None, "display.max_columns", None):
    display(
        clustered_df[
            [
                "CoinName",
                "Algorithm",
                "ProofType",
                "TotalCoinSupply",
                "TotalCoinsMined",
                "Class",
            ]
        ]
    )
```

	CoinName	Algorithm	ProofType	TotalCoinSupply	TotalCoinsMir
42	42 Coin	Scrypt	PoW/PoS	42	4.199995e+
404	404Coin	Scrypt	PoW/PoS	532000000	1.055185e+
1337	EliteCoin	X13	PoW/PoS	314159265359	2.927942e+
BTC	Bitcoin	SHA-256	PoW	21000000	1.792718e+
ETH	Ethereum	Ethash	PoW	0	1.076842e+
LTC	Litecoin	Scrypt	PoW	84000000	6.303924e+
DASH	Dash	X11	PoW/PoS	22000000	9.031294e+
XMR	Monero	CryptoNight-V7	PoW	0	1.720114e+
ETC	Ethereum Classic	Ethash	PoW	210000000	1.133597e+
ZEC	ZCash	Equihash	PoW	21000000	7.383056e+
BTS	Bitshares	SHA-512	PoS	3600570502	2.741570e+
DGB	DigiByte	Multiple	PoW	21000000000	1.140622e+
BTCD	BitcoinDark	SHA-256	PoW/PoS	22000000	1.288862e+
XPY	PayCoin	SHA-256	PoS	12500000	1.199533e+
PRC	ProsperCoin	Scrypt	PoW	21000000	5.768310e+
KOBO	KoboCoin	X15	PoW/PoS	350000000	2.554254e+
SPR	Spreadcoin	X11	PoW	20000000	1.114973e+
ARG	Argentum	Scrypt	PoW	64000000	1.220580e+
AUR	Aurora Coin	Scrypt	PoW/PoS	16768584	1.813510e+
BLU	BlueCoin	Scrypt	PoW/PoS	0	6.354239e+
XMY	MyriadCoin	Multiple	PoW	2000000000	1.688254e+
MOON	MoonCoin	Scrypt	PoW	384000000000	8.800000e+
ZET	ZetaCoin	SHA-256	PoW	169795588	1.702044e+
SXC	SexCoin	Scrypt	PoW	250000000	1.289410e+
QTL	Quatloo	Scrypt	PoW	100000000	7.357795e+
ENRG	EnergyCoin	Scrypt	PoW/PoS	0	1.230628e+
QRK	QuarkCoin	Quark	PoW	247000000	2.595572e+
RIC	Riecoin	Groestl	PoW	84000000	4.954859e+
DGC	Digitalcoin	Scrypt	PoW	48166000	3.344299e+
BTB	BitBar	Scrypt	PoW/PoS	500000	4.257948e+
CAT	Catcoin	Scrypt	PoW	21000000	7.219957e+
CBX	CryptoBullion	Scrypt	PoW/PoS	1000000	1.039117e+
CCN	CannaCoin	Scrypt	PoW	13140000	4.703880e+
CRYPT	CryptCoin	X11	PoW	18000000	4.996986e+
CSC	CasinoCoin	Scrypt	PoC	40000000000	4.000000e+

	CoinName	Algorithm	ProofType	TotalCoinSupply	TotalCoinsMir
DMD	Diamond	Groestl	PoW/PoS	4380000	3.304488e+
XVG	Verge	Multiple	PoW	16555000000	1.592953e+
DVC	DevCoin	SHA-256	PoW	21000000000	1.877386e+
EAC	EarthCoin	Scrypt	PoW	13500000000	1.253902e+
EFL	E-Gulden	Scrypt	PoW	21000000	2.091048e+
EMC2	Einsteinium	Scrypt	PoW	299792458	2.188719e+
EMD	Emerald	Scrypt	PoW	32000000	1.949679e+
EXCL	Exclusive Coin	PoS	PoS	0	5.679705e+
FLT	FlutterCoin	Scrypt	PoS/PoW/PoT	0	4.618299e+
FRK	Franko	Scrypt	PoW	11235813	1.142732e+
FTC	FeatherCoin	NeoScrypt	PoW	336000000	2.086691e+
GDC	GrandCoin	Scrypt	PoW	1420609614	8.841258e+
GLC	GlobalCoin	Scrypt	PoW	70000000	6.567272e+
GLD	GoldCoin	Scrypt	PoW	72245700	4.165865e+
HBN	HoboNickels	Scrypt	PoW/PoS	120000000	8.926693e+
HYP	HyperStake	X11	PoS	0	1.678520e+
IFC	Infinite Coin	Scrypt	PoW	90600000000	9.059575e+
IOC	IOCoin	X11	PoW/PoS	22000000	1.765091e+
IXC	IXcoin	SHA-256	PoW	21000000	2.108935e+
KGC	KrugerCoin	Scrypt	PoW	265420800	1.514476e+
LKY	LuckyCoin	Scrypt	PoW	20000000	1.932632e+
LTB	Litebar	Scrypt	PoW	1350000	1.104344e+
MAX	MaxCoin	SHA3	PoW/PoS	100000000	6.144580e+
MEC	MegaCoin	Scrypt	PoW	42000000	3.815200e+
MED	MediterraneanCoin	HybridScryptHash256	PoW	200000000	4.043186e+
MINT	MintCoin	Scrypt	PoS	0	2.129393e+
MINC	MinCoin	Scrypt	PoW	10000000	5.804205e+
MZC	MazaCoin	SHA-256	PoW/PoS	2419200000	1.613836e+
NAUT	Nautilus Coin	Scrypt	PoS	16180000	1.618000e+
NAV	NavCoin	X13	PoW/PoS	0	6.608710e+
NOBL	NobleCoin	Scrypt	PoW	15000000000	2.366066e+
NMC	Namecoin	SHA-256	PoW	21000000	1.473640e+
NYAN	NyanCoin	Scrypt	PoW	337000000	3.347092e+
OPAL	OpalCoin	X13	PoW/PoS	0	1.515636e+
ORB	Orbitcoin	NeoScrypt	PoW/PoS	3770000	3.220616e+
POT	PotCoin	Scrypt	PoW/PoS	420000000	2.226772e+

	CoinName	Algorithm	ProofType	TotalCoinSupply	TotalCoinsMir
PXC	PhoenixCoin	Scrypt	PoW/PoS	98000000	7.395927e+
RDD	Reddcoin	Scrypt	PoW/PoS	0	2.931557e+
RPC	RonPaulCoin	Scrypt	PoW	21000000	1.104157e+
SBC	StableCoin	Scrypt	PoW	250000000	2.421518e+
SMC	SmartCoin	Scrypt	PoW	51200000	2.559374e+
SUPER	SuperCoin	X11	PoS	0	5.070766e+
SYNC	SyncCoin	X11	PoW/PoS	1000	1.177000e+
SYS	SysCoin	SHA-256	PoW	888000000	5.633365e+
TES	TeslaCoin	Multiple	PoS	100000000	8.026046e+
TGC	TigerCoin	SHA-256	PoW	47011968	4.353680e+
TIT	TittieCoin	PHI1612	PoS	2300000000	1.622326e+
TOR	TorCoin	X11	PoW/PoS	10000000	1.431851e+
TRC	TerraCoin	SHA-256	PoW	42000000	2.293540e+
UNB	UnbreakableCoin	SHA-256	PoW	80000000	2.278150e+
UNO	Unobtanium	SHA-256	PoW	250000	2.009118e+
URO	UroCoin	X11	PoW	0	1.207310e+
USDE	UnitaryStatus Dollar	Scrypt	PoW/PoS	1600000000	1.098953e+
UTC	UltraCoin	Scrypt	PoW/PoS	100000000	5.023521e+
VIA	ViaCoin	Scrypt	PoW	23000000	2.315089e+
VRC	VeriCoin	Scrypt	PoST	0	3.202111e+
VTC	Vertcoin	Lyra2REv2	PoW	84000000	5.117372e+
WDC	WorldCoin	Scrypt	PoW	265420800	1.196069e+
XC	X11 Coin	X11	PoW/PoS	5500000	6.950831e+
XCR	Crypti	Multiple	PoS	0	1.000000e+
XJO	JouleCoin	SHA-256	PoW	45000000	3.919574e+
XST	StealthCoin	X13	PoW/PoS	0	3.309373e+
ZCC	ZCC Coin	Scrypt	PoW/PoS	1000000000	1.479902e+
BCN	ByteCoin	CryptoNight	PoW	184467440735	1.840668e+
XDN	DigitalNote	CryptoNight	PoW	10000000000	6.906588e+
BURST	BurstCoin	Shabal256	PoC	2158812800	1.813034e+
SJCX	StorjCoin	Counterparty	PoS	500000000	5.117314e+
MONA	MonaCoin	Scrypt	PoW	105120000	6.819467e+
NTRN	Neutron	SHA-256	PoW/PoS	68000000	3.912169e+
FAIR	FairCoin	Groestl	PoW/PoS	0	5.319383e+
NLG	Gulden	Scrypt	PoW	1680000000	4.150324e+
RBY	RubyCoin	Scrypt	PoS	0	2.718449e+

	CoinName	Algorithm	ProofType	TotalCoinSupply	TotalCoinsMir
PTC	PesetaCoin	Scrypt	PoW	166386000	1.375177e+
KORE	Kore	X13	PoW/PoS	12000000	2.022465e+
WBB	Wild Beast Coin	Scrypt	PoW	2628000	1.819192e+
NOTE	Dnotes	Scrypt	PoS	500000000	1.746461e+
FLO	Flo	Scrypt	PoW	160000000	1.522707e+
8BIT	8BIT Coin	Scrypt	PoW/PoS	0	1.467841e+
STV	Sativa Coin	X13	PoW/PoS	10000000	7.096834e+
ABY	ArtByte	Scrypt	PoW	1000000000	7.925372e+
FLDC	Folding Coin	Stanford Folding	PoW	1000000000	7.194170e+
U	Ucoin	X11	PoS	20000000	2.689812e+
UIS	Unitus	Multiple	PoW	0	6.511330e+
CYP	CypherPunkCoin	QuBit	PoW	0	6.365285e+
OMC	OmniCron	Scrypt	PoW	3371337	1.014004e+
VTR	Vtorrent	Scrypt	PoW/PoS	20000000	1.160472e+
GRE	GreenCoin	Scrypt	PoW	10000000000	4.610341e+
XCN	Cryptonite	M7 POW	PoW	1840000000	7.085065e+
MSC	MasterCoin	Scrypt	PoW	619478	6.194780e+
SOON	SoonCoin	SHA-256	PoW	21000000	1.246262e+
1CR	1Credit	Scrypt	PoW	92000000000	8.821300e+
ISL	IslaCoin	X11	PoW/PoS	0	1.513704e+
NXS	Nexus	SHA3	PoW/nPoS	78000000	6.365722e+
MARS	MarsCoin	X11	PoW	33000000	3.222157e+
CTO	Crypto	Lyra2RE	PoW	65789100	1.374274e+
ACP	Anarchists Prime	SHA-256	PoW	53760000	1.474720e+
DRZ	Droidz	QUAIT	PoW/PoS	5060000	8.568038e+
BSC	BowsCoin	X11	PoW	21000000	1.586384e+
SQL	Squall Coin	X11	PoS/PoW	0	3.292000e+
SONG	Song Coin	Scrypt	PoW	210240000	3.256530e+
ZNY	BitZeny	Scrypt	PoW	250000000	7.561450e+
DIGS	Diggits	Scrypt	PoS	100000000	1.000000e+
EXP	Expanse	Ethash	PoW	16906397	1.049528e+
CON	Paycon	X13	PoW/PoS	50000000	2.304260e+
SC	Siacoin	Blake2b	PoW	0	3.309830e+
EMC	Emercoin	SHA-256	PoW/PoS	1000000000	4.305979e+
EGC	EverGreenCoin	X15	PoW/PoS	26298000	1.353056e+
MND	MindCoin	X11	PoW	16000000	1.586770e+

	CoinName	Algorithm	ProofType	TotalCoinSupply	TotalCoinsMir
I0C	I0coin	SHA-256	PoW	21000000	2.099748e+
DCR	Decred	BLAKE256	PoW/PoS	21000000	1.036505e+
RVR	Revolution VR	Scrypt	PoW	210000000	2.100000e+
HODL	HODlcoin	1GB AES Pattern Search	PoW	81962100	1.144895e+
EDRC	EDRCoin	SHA-256	PoW/PoS	22000000	3.669692e+
HTC	Hitcoin	X11	PoW/PoS	26550000000	1.099632e+
GAME	Gamecredits	Scrypt	PoW	84000000	6.983610e+
DBIC	DubaiCoin	SHA-256	PoW/PoS	10500000	5.129014e+
DIEM	CarpeDiemCoin	SHA-256	PoW	21626280000	2.173997e+
PWR	PWR Coin	NIST5	PoW/PoS	0	1.006945e+
BLRY	BillaryCoin	Scrypt	PoW/PoS	42000000	8.998743e+
GPU	GPU Coin	Scrypt	PoS	221052632	4.047704e+
ADZ	Adzcoin	X11	PoW	84000000	4.511032e+
SOIL	SoilCoin	Dagger	PoW	30000000	5.702048e+
YOC	YoCoin	Scrypt	PoW	168351300	6.364626e+
SIB	SibCoin	X11GOST	PoW	24000000	1.726336e+
ERC	EuropeCoin	X11	PoW/PoS	384000000	1.040727e+
ZEIT	ZeitCoin	Scrypt	PoS	99000000000	3.697124e+
SWING	SwingCoin	SHA-256	PoW/PoS	40000000	4.377082e+
SAFEX	SafeExchangeCoin	Scrypt	PoC	2147483647	2.147484e+
NEBU	Nebuchadnezzar	PoS	PoS	20000000	2.000000e+
FRN	Francs	Scrypt	PoW	20000000	6.570808e+
BOLI	BolivarCoin	X11	PoW	25000000	1.365408e+
XRA	Ratecoin	X11	PoW/PoS	75000000	1.345549e+
REV	Revenu	SHA-256	PoW/PoS	222725000	1.195525e+
CKC	Clockcoin	SHA-256	PoW/PoS	525000000	1.666282e+
VIP	VIP Tokens	NIST5	PoW/PoS	90000000	8.345040e+
BSD	BitSend	X11	PoW/PoS	139000000	2.438772e+
OMNI	Omni	Scrypt	PoW	616448	6.164480e+
LIR	Let it Ride	POS 3.0	PoS	33500000	3.858981e+
PUT	PutinCoin	Scrypt	PoW/PoS	2000000000	8.130923e+
IBANK	iBankCoin	Scrypt	PoW/PoS	44333333	4.526324e+
FRWC	Frankywillcoin	Scrypt	PoW/PoS	100000000	1.000000e+
MUDRA	MudraCoin	X13	PoS	200000000	5.000000e+
PIZZA	PizzaCoin	X11	PoW	25000000	1.377917e+
LC	Lutetium Coin	X11	PoS	657000000	6.570000e+

	CoinName	Algorithm	ProofType	TotalCoinSupply	TotalCoinsMir
KMD	Komodo	Equihash	dPoW/PoW	200000000	1.158981e+
GB	GoldBlocks	X11	PoW/PoS	50000000	1.556387e+
CTC	CarterCoin	Scrypt	PoW/PoS	90000000	4.316550e+
KRB	Karbo	CryptoNight	PoW	10000000	7.822433e+
BXT	BitTokens	SHA-256	PoW/PoS	21000000	5.954290e+
ZYD	ZayedCoin	SHA-256	PoW	9736000	6.243840e+
MST	MustangCoin	X11	PoW/PoS	3000000	6.576363e+
ZNE	ZoneCoin	Scrypt	PoW/PoS	21000000	2.581970e+
COVAL	Circuits of Value	Multiple	PoW	1200000000	1.000000e+
ROOT	RootCoin	Scrypt	PoW/PoS	0	1.939889e+
DOPE	DopeCoin	Scrypt	PoW	200000000	1.168452e+
BTCR	BitCurrency	Scrypt	PoS	0	1.695986e+
DLC	DollarCoin	SHA-256	PoW	10638298	9.106714e+
SCN	Swiscoin	Scrypt	PoW/PoW	3100000000	6.652001e+
SH	Shilling	Scrypt	PoW	30000000	1.111920e+
BUZZ	BuzzCoin	SHA-256D	PoW/PoS	20000000000	1.957779e+
XPO	Opair	PoS	PoS	74000000	7.403381e+
PSB	PesoBit	Scrypt	PoW/PoS	0	3.352296e+
HALLO	Halloween Coin	X11	PoW/PoS	1500000000	2.646785e+
XZC	ZCoin	Lyra2Z	PoW	21400000	7.568281e+
CFC	CoffeeCoin	PoS	PoS	39999898	1.487168e+
ROYAL	RoyalCoin	X13	PoS	2500124	2.500124e+
GNJ	GanjaCoin V2	X14	PoW/PoS	100000000	1.000000e+
TEAM	TeamUP	PoS	PoS	301000000	1.781868e+
LANA	LanaCoin	SHA-256D	PoW/PoS	7506000000	1.082163e+
ELE	Elementrem	Ethash	PoW	26205539	2.620554e+
ZCL	ZClassic	Equihash	PoW	21000000	5.613550e+
ARK	ARK	DPoS	DPoS	125000000	1.082021e+
INSANE	InsaneCoin	X11	PoW/PoS	30000000	1.834281e+
KLC	KiloCoin	Scrypt	PoW	10000000000	1.962980e+
ATX	ArtexCoin	X11	PoW	500000000	8.240000e+
EMB	EmberCoin	X13	PoW/PoS	850000000	9.219282e+
XEN	XenixCoin	X11	PoW/PoS	3853326.77707314	3.853327e+
FRE	FreeCoin	PoS	PoS	50000000	5.000000e+
PLNC	PLNCoin	Scrypt	PoW/PoS	38540000	1.708960e+
ARCO	AquariusCoin	Scrypt	PoW/PoS	42000000	2.449577e+

	CoinName	Algorithm	ProofType	TotalCoinSupply	TotalCoinsMir
KURT	Kurrent	X11	PoW	228000000	6.136481e+
XCRE	Creatio	PoS	PoS	20000000	2.000000e+
ENT	Eternity	X11	PoW/PoS	60000000	6.069482e+
EUC	Eurocoin	SHA-256	PoW/PoS	20000000	1.241655e+
BCF	BitcoinFast	Scrypt	PoW/PoS	33000000	2.024402e+
XSN	Stakenet	X11	TPoS	76500000	7.559037e+
BCCOIN	BitConnect Coin	Scrypt	PoW/PoS	28000000	1.108072e+
MONEY	MoneyCoin	Scrypt	PoW/PoS	650659833	1.091442e+
XNG	Enigma	X11	PoW/PoS	5000000	8.146710e+
XCI	Cannabis Industry Coin	CryptoNight	PoW	21000000	9.781450e+
RC	Russiacoin	Scrypt	PoW/PoS	144000000	8.377873e+
PND	PandaCoin	Scrypt	PoS	32514916898	3.381314e+
UNITS	GameUnits	Scrypt	PoW/PoS	13000000	3.472983e+
GAKH	GAKHcoin	Scrypt	PoW/PoS	3315789	3.315789e+
ASAFE2	Allsafe	Quark	PoS	15000000	1.051777e+
LTCR	LiteCreed	QuBit	PoW/PoS	78835200	3.022775e+
OS76	OsmiumCoin	Scrypt	PoW	2714286	8.940260e+
BIC	Bikercoins	CryptoNight	PoW	25000000	9.357088e+
HXX	HexxCoin	Lyra2RE	PoW	9999999	1.876146e+
KED	Klingon Empire Darsek	Scrypt	PoW/PoS	500000000	2.396537e+
IOP	Internet of People	SHA-256	PoW/PoS	21000000	2.526078e+
KUSH	KushCoin	X11	PoW/PoS	9354000	5.659097e+
PRX	Printerium	Scrypt	PoW/PoS	20000000	1.182173e+
PAC	PacCoin	X11	PoW	10000000000	5.369821e+
IMPCH	Impeach	Scrypt	PoW/PoS	21933333	3.081790e+
CTL	Citadel	CryptoNight-V7	PoW	185000000	1.096932e+
ZBC	Zilbercoin	Scrypt	PoS	55000000	2.922614e+
FRST	FirstCoin	Scrypt	PoW/PoS	110000000	1.100000e+
BVC	BeaverCoin	Scrypt	PoW	3360000	3.115258e+
FIND	FindCoin	X13	PoS	14524851.4827	1.452485e+
VLTC	VaultCoin	X11	PoW	1000000000	3.038554e+
ZER	Zero	Equihash	PoW	17000000	6.921654e+
CHAT	OpenChat	Scrypt	PoW/PoS	1000000000	1.000000e+
CDN	Canada eCoin	Scrypt	PoW	100000000	9.984341e+
ZOI	Zoin	Lyra2RE	PoW	21000000	1.854576e+

	CoinName	Algorithm	ProofType	TotalCoinSupply	TotalCoinsMir
RNS	RenosCoin	Scrypt	PoS	34426423	3.605036e+
DBIX	DubaiCoin	Dagger-Hashimoto	PoW	2232901	2.232901e+
XVP	VirtacoinPlus	X11	PoW/PoS	100000000	1.316275e+
TAJ	TajCoin	Blake2S	PoW/PoS	36900000	1.218420e+
IMX	Impact	X11	PoW/PoS	110000000	1.106304e+
EB3	EB3coin	Scrypt	PoW	4000000000	6.409605e+
ATMOS	Atmos	PoS	PoS	110290030	1.111358e+
HPC	HappyCoin	X11	PoW/PoS	100000000	2.152132e+
CXT	Coinonat	NIST5	PoW	48252000	1.012320e+
MCRN	MacronCoin	PoS	PoS	400000000	4.014214e+
RAIN	Condensate	X11	PoW/PoS	500000000	1.216655e+
IMS	Independent Money System	Scrypt	PoW/PoS	21212121	5.368934e+
ARGUS	ArgusCoin	Scrypt	PoW/PoS	28600000	1.148324e+
LMC	LomoCoin	Scrypt	PoW/PoS	1000000000	5.000000e+
PROC	ProCurrency	SHA-256	PoS	75000000000	1.005457e+
XGR	GoldReserve	X11	PoW/PoS	40000000	1.717138e+
BENJI	BenjiRolls	Scrypt	PoW	35520400	2.027610e+
GRW	GrowthCoin	Scrypt	PoS	2000000000	2.951355e+
ILC	ILCoin	SHA-256	PoW	2500000000	1.317748e+
PHR	Phreak	PoS	PoS	30000000	1.139023e+
DEA	Degas Coin	Scrypt	PoW/PoS	105000000	2.135876e+
HTML5	HTML5 Coin	X15	PoW/PoS	90000000000	4.065902e+
USC	Ultimate Secure Cash	SHA-256	PoS	200084200	1.034311e+
EQT	EquiTrader	Scrypt	PoW	72000000	1.367341e+
QTUM	QTUM	POS 3.0	PoS	100000000	1.000000e+
QRL	Quantum Resistant Ledger	CryptoNight-V7	PoW	105000000	6.903602e+
ESP	Espers	536	PoW/PoS	50000000000	2.280188e+
DYN	Dynamic	Argon2d	PoW	0	1.978422e+
NANO	Nano	Blake2b	PoW	340282367	1.332483e+
CHAN	ChanCoin	Cloverhash	PoW	30000000	1.840726e+
DCY	Dinastycoin	CryptoNight	PoW	2000000000	1.809467e+
DNR	Denarius	NIST5	PoW/PoS	10000000	4.171382e+
DP	DigitalPrice	X11	PoW	100000000	3.513898e+
VUC	Virta Unique Coin	NIST5	PoW/PoS	120000000	6.294208e+
BTPL	Bitcoin Planet	Skein	PoW/PoS	100000000	6.804362e+

	CoinName	Algorithm	ProofType	TotalCoinSupply	TotalCoinsMir
UNIFY	Unify	Scrypt	PoW	19276800	1.813320e+
BRIT	BritCoin	X13	PoW/PoS	30000000	2.126809e+
SOCC	SocialCoin	Scrypt	PoW	75000000	5.167775e+
ARC	ArcticCoin	X11	PoW	60000000	2.604236e+
DAS	DAS	X11	PoW	18900000	2.622886e+
LINDA	Linda	Scrypt	PoW/PoS	50000000000	9.044931e+
XLC	LeviarCoin	CryptoNight	PoW	54000000	1.416180e+
ONION	DeepOnion	X13	PoW/PoS	18898187.6216583	2.191702e+
BTX	Bitcore	Time Travel	PoW	21000000	1.780187e+
GCN	gCn Coin	Scrypt	PoW	200000000000	1.630551e+
SMART	SmartCash	Keccak	PoW	5000000000	2.241009e+
SIGT	Signatum	SkunkHash v2 Raptor	PoS	137500000	1.079728e+
ONX	Onix	X11	PoW	1100000000	1.224756e+
CRM	Cream	Skein	PoW/PoS	100000000	4.733180e+
BCH	Bitcoin Cash	SHA-256	PoW	21000000	1.799559e+
XMCC	Monoeci	X11	PoW/PoS	9507271	1.256926e+
DFT	Draftcoin	Scrypt	PoS	17405891.19707116	1.866330e+
VET	Vechain	VeChainThor Authority	Proof of Authority	86712634466	5.545473e+
SOJ	Sojourn Coin	Scrypt	PoW	10500000000	4.852140e+
STCN	Stakecoin	PoS	PoS	61599965	4.000000e+
NYC	NewYorkCoin	Scrypt	PoW	0	1.430067e+
FRAZ	FrazCoin	Scrypt	PoW	20000000	9.704042e+
KRONE	Kronecoin	Scrypt	PoW	84000000	1.745375e+
ACC	AdCoin	Scrypt	PoW	100000000	3.264673e+
LINX	Linx	Scrypt	PoW	100000000	3.371653e+
XCXT	CoinonatX	Scrypt	PoW/PoS	48252000	1.953959e+
ETHD	Ethereum Dark	Scrypt	PoW/PoS	4200000	4.200000e+
SUMO	Sumokoin	CryptoNight	PoW	88888888	8.946653e+
ODN	Obsidian	SHA-512	PoS	91388946	2.500000e+
ADA	Cardano	Ouroboros	PoS	45000000000	2.592707e+
REC	Regalcoin	X11	PoW/PoS	27000000	7.262402e+
BTCZ	BitcoinZ	Equihash	PoW	21000000000	5.211553e+
TZC	TrezarCoin	NeoScrypt	PoW/PoS	400000000	1.826384e+
ELM	Elements	X11	PoW	1800000000	2.702856e+
TER	TerraNovaCoin	Scrypt	PoW/PoS	15733333	1.140735e+
VIVO	VIVO Coin	NeoScrypt	PoW	27000000	4.165968e+

	CoinName	Algorithm	ProofType	TotalCoinSupply	TotalCoinsMir
RUP	Rupee	Lyra2REv2	PoS	24000000	2.400000e+
BTG	Bitcoin Gold	Equihash	PoW	21000000	1.720236e+
WOMEN	WomenCoin	Scrypt	PoW/PoS	25000000000	4.845947e+
MAY	Theresa May Coin	SHA-256	PoW/PoS	100000000	9.205080e+
NAMO	NamoCoin	NIST5	PoW/PoS	1200000000	5.605632e+
LUX	LUXCoin	PHI1612	PoW/PoS	60000000	8.305775e+
PIRL	Pirl	Dagger	PoW	156306732.71	3.398698e+
XIOS	Xios	Scrypt	PoW/PoS	21000000	2.149688e+
BTDX	Bitcloud 2.0	Quark	PoW/PoS	200000000	3.071155e+
EBST	eBoost	Scrypt	PoW	100000000	9.999000e+
KEK	KekCoin	POS 2.0	PoS	21000000	1.233081e+
BLHC	BlackholeCoin	Scrypt	PoW/PoS	14788275.991	1.636254e+
XIN	Infinity Economics	SHA-256	PoS	9000000000	9.000000e+
PURA	Pura	X11	PoW	350000000	1.752159e+
INN	Innova	NeoScrypt	PoW	45000000	6.375259e+
ELLA	Ellatism	Ethash	PoW	280000000	1.275637e+
GBX	GoByte	NeoScrypt	PoW	31800000	5.832307e+
MAG	Magnet	X11	PoW/PoS	144000000	3.819859e+
TAU	Lamden Tau	DPoS	DPoS	500000000	2.880906e+
ECA	Electra	NIST5	PoW/PoS	30000000000	2.839915e+
BCD	Bitcoin Diamond	X13	PoW/PoS	210000000	1.835340e+
XSH	SHIELD	Multiple	PoW	660000000	4.817306e+
CNBC	Cash & Back Coin	Scrypt	PoW/PoS	210000000	1.109770e+
XUN	UltraNote	CryptoNight	PoW	85000000000	1.928182e+
COAL	BitCoal	CryptoNight	PoW	12500000	4.500000e+
DAXX	DaxxCoin	Ethash	PoW	10000000000	5.208918e+
BWK	Bulwark	NIST5	PoS	27716121	1.324718e+
KLKS	Kalkulus	Quark	PoS	20000000	1.695576e+
AC3	AC3	X11	PoW	550000000	8.031621e+
LTHN	Lethean	CryptoNight-V7	PoW	999481516	4.412502e+
GER	GermanCoin	Scrypt	PoW/PoS	50000000000	4.911500e+
LTCU	LiteCoin Ultra	Scrypt	PoW/PoS	150000000	8.419402e+
POP	PopularCoin	Scrypt	PoW	4999999999	3.964201e+
PNX	PhantomX	X11	PoW/PoS	50000000	4.517421e+
PHO	Photon	BLAKE256	PoW	90000000000	3.008967e+
SUCR	Sucre	X11	PoW	19800000	4.229041e+

	CoinName	Algorithm	ProofType	TotalCoinSupply	TotalCoinsMir
SPK	SparksPay	NeoScript	PoW	21000000	7.847417e+
WAGE	Digiwage	Quark	PoS	120000000	2.729968e+
GUN	GunCoin	NeoScript	PoW	500000000	2.997980e+
IRL	IrishCoin	Script	PoW	64000000	4.548305e+
TROLL	Trollcoin	Script	PoW/PoS	900000000	5.910227e+
LCP	Litecoin Plus	Script	PoW/PoS	4000000	2.504486e+
MONK	Monkey Project	X11	PoS	21000000	4.407252e+
PCOIN	Pioneer Coin	X11	PoW	23000000	8.478104e+
UBTC	UnitedBitcoin	SHA-256	PoW	20166000	2.016600e+
ITZ	Interzone	C11	PoW	23000000	1.191659e+
TPAY	TokenPay	POS 3.0	PoS	25000000	2.044586e+
MCT	1717 Masonic Commemorative Token	Ethash	PoS	1618033	1.618033e+
MBC	My Big Coin	Script	PoW and PoS	30000000	9.399343e+
TRTL	TurtleCoin	CryptoNight	PoW	1000000000000	5.313984e+
MUN	MUNcoin	SkunkHash	PoW	16600000	4.818339e+
USX	Unified Society USDEX	Script	PoW/PoS	232000000	2.348463e+
NBR	Niobio Cash	CryptoNight	PoW	336000000	1.339325e+
SSS	ShareChain	Script	PoW	10000000000	1.000000e+
TRF	Travelflex	Dagger	PoW	100000000	1.073253e+
KREDS	KREDS	Lyra2REv2	PoW	1100000000	6.437959e+
TOKC	Tokyo Coin	X13	PoS	800000000	2.302989e+
BBP	BiblePay	Proof-of-BibleHash	POBh	5200000000	1.772092e+
LCC	LitecoinCash	SHA-256 + Hive	PoW + Hive	840000000	6.383823e+
FLIP	BitFlip	Script	PoW	40000000	1.244610e+
LOT	LottoCoin	Script	PoW	18406979840	1.449101e+
CIF	Crypto Improvement Fund	X11	PoW	500000000	2.112976e+
SPD	Stipend	C11	PoW/PoS	19340594	1.125134e+
POA	Poa Network	Proof-of-Authority	PoA	252460800	2.044790e+
PUSHI	Pushi	X11	PoW/PoS	25000000	2.167827e+
ELP	Ellerium	XEVAN	PoW/PoS	60000000	4.192754e+
VLX	Velox	Script	PoS	124000000	2.557001e+
ONT	Ontology	VBFT	PoS	1000000000	6.508486e+
CLO	Callisto Network	Ethash	PoW	6500000000	2.476125e+
TUBE	BitTube	CryptoNight	PoW	1000000000	8.004908e+

	CoinName	Algorithm	ProofType	TotalCoinSupply	TotalCoinsMir
PSD	Poseidon	Scrypt	PoW	21000000	4.070212e+
ADK	Aidos Kuneen	IMesh	PoW	25000000	2.500000e+
BSX	Bitspace	NIST5	PoW/PoS	50000000	1.378785e+
BRIA	Briacoin	Scrypt	PoW/PoS	3000000	8.456378e+
IC	Ignition	Scrypt	PoW/PoS	5000000	1.182154e+
BTL	Bitrolium	Equihash	PoW	70000000	7.135548e+
MEDIC	MedicCoin	Scrypt	PoS	500000000	2.672977e+
ALPS	Alpenshillling	Lyra2Z	PoW	300000000	2.734050e+
BITG	Bitcoin Green	Green Protocol	PoS	21000000	9.803691e+
DEV	Deviant Coin	PoS	PoS	88000000	2.187659e+
ABJ	Abjcoin	Scrypt	PoW/PoS	30000000	9.880502e+
SEM	Semux	Semux BFT consensus	DPoS	100000000	1.231147e+
FTO	FuturoCoin	X11	PoW	100000000	3.180146e+
CARE	Carebit	Quark	PoW/PoS	200000000	1.397396e+
NZL	Zealium	PoS	PoS	80000000	1.107525e+
XMC	Monero Classic	CryptoNight	PoW	18400000	1.601686e+
PROTON	Proton	X16R	PoS	45000000	4.403800e+
DEAL	iDealCash	Scrypt	PoW/PoS	5121951220	1.404158e+
JUMP	Jumpcoin	NIST5	PoW	21000000	2.106935e+
INFX	Infinex	Lyra2RE	PoW	26280000	5.097690e+
XBI	Bitcoin Incognito	XEVAN	PoS/PoW	21000000	1.090496e+
KEC	KEYCO	Tribus	PoW	18000000	7.954470e+
HWC	HollywoodCoin	Scrypt	PoS	26000000	3.870681e+
GIN	GINcoin	Lyra2Z	PoW	10500000	6.986400e+
PLTC	PlatinCoin	CryptoNight	PoW	600000518	8.430000e+
LOKI	Loki	CryptoNight Heavy	PoW	150000000	1.915363e+
NCP	Newton Coin	CryptoNight	PoW	184000000000	4.129452e+
SIC	Swisscoin	Scrypt	PoW/PoS	10200000000	1.020000e+
XT3	Xt3ch	Scrypt	PoS	44000000	7.630000e+
MGD	MassGrid	Jump Consistent Hash	PoW	168000000	1.358624e+
VIG	TheVig	SHA-256D	PoW/PoS	100000000	3.323818e+
PLURA	PluraCoin	CryptoNight	PoW	1000000000	5.600860e+
EMAR	EmaratCoin	Scrypt	PoW/PoS	84000000	2.159934e+
DKD	Dekado	X15	PoS	90000000	3.028420e+
LYNX	Lynx	Scrypt	HPoW	92000000000	7.787206e+

	CoinName	Algorithm	ProofType	TotalCoinSupply	TotalCoinsMir
POSQ	Poseidon Quark	Quark	PoS	650000000	2.716265e+
BWS	BitcoinWSpectrum	SHA-256	PoS	100262205	5.781100e+
MUSE	Muse	DPoS	PoS	18081806	1.819494e+
XMN	Motion	X16R	PoW	22075700	8.125865e+
PLUS1	PlusOneCoin	HMQ1725	PoW	21000000	8.645406e+
AXE	Axe	X11	PoW	21000000	4.993031e+
TRVC	Trivechain	X16R	PoW/PoS	82546564	3.692312e+
DTEM	Dystem	Quark	PoS	21000000	7.082392e+
GIC	Giant	Quark	PoW/PoS	5151000	5.919490e+
PNY	Peony Coin	Scrypt	PoS	16880000000	1.042012e+
ABS	Absolute Coin	Lyra2REv2	PoW/PoS	52500000	1.333262e+
VITAE	Vitae	Quark	PoS	100000000	6.605388e+
HEX	HexCoin	Scrypt	PoW	22105263	1.416663e+
TPC	TPCash	Scrypt	PoW/PoS	1000000000	5.403802e+
WEBC	Webchain	CryptoNight-V7	PoW	1750000000	1.558020e+
RYO	Ryo	Cryptonight-GPU	PoW	88188888	4.890897e+
URALS	Urals Coin	XEVAN	PoW	210000000	1.474615e+
QWC	Qwertycoin	CryptoNight Heavy	PoW	18447000000	9.955311e+
ARE	ARENON	X11	PoS	55000000	1.926951e+
EUNO	EUNO	X11	PoW/PoS	50000000	3.077113e+
MMO	MMOCoin	Scrypt	PoS	260000000	1.077639e+
KETAN	Ketan	PoS	PoS	210000000	9.327132e+
PPAI	Project Pai	SHA-256	PoW	2100000000	2.100000e+
XDNA	XDNA	Keccak	PoW/PoS	366000000	4.672514e+
PAXEX	PAXEX	X11	PoS	100000000	4.504639e+
AZART	Azart	X11	PoW	25000000	5.015881e+
TSC	ThunderStake	Scrypt	PoW/PoS	18000000000	1.059954e+
KCASH	Kcash	SHA-512	Zero-Knowledge Proof	1000000000	1.000000e+
XCG	Xchange	X16R	PoW	100000000	9.753754e+
AAC	Acute Angle Cloud	ECC 256K1	DPOS	1000000000	1.000000e+
CRYP	CrypticCoin	Equihash	PoW	7600000000	4.235112e+
BTXC	Bettex coin	XEVAN	PoS	50000000	6.787405e+
ACM	Actinium	Lyra2Z	PoW	84000000	1.363485e+
BSV	Bitcoin SV	SHA-256	PoW	21000000	1.799251e+
BITM	BitMoney	XEVAN	Pos	70000000000	2.085159e+

	CoinName	Algorithm	ProofType	TotalCoinSupply	TotalCoinsMir
JMC	Junson Ming Chan Coin	X11	PoS	0	1.720992e+
FRED	FREDEnergy	CryptoNight	PoW	8080000000	1.867055e+
HERB	HerbCoin	Quark	PoW/PoS	54000000	3.531219e+
UMO	Universal Molecule	Blake	PoW	105120001.44	1.578281e+
LIT	Lithium	Blake	PoW	25228800	1.584672e+
PIRATE	PirateCash	Equihash	PoS	105000000	1.347592e+
EXO	Exosis	Exosis	PoW	21000000	4.060919e+
BLTG	Block-Logic	Scrypt	PoW	120000000	3.528472e+
OWC	Oduwa	Scrypt	PoW/PoS	21000000	1.477755e+
BEAM	Beam	Equihash	PoW	262800000	3.568752e+
GALI	Galilei	Quark	PoW/PoS	19035999	1.826501e+
BTH	Bithereum	Equihash	PoW	30886000	2.515079e+
CSPN	Crypto Sports	Quark	PoS	13370000	1.934702e+
CREDIT	Credit	Scrypt	PoW/PoS	74800000000	3.082571e+
SLC	SLICE	QuBit	PoW	100000000	1.292579e+
DASHP	Dash Platinum	X11	PoS	19700000	7.156594e+
NSD	Nasdacoin	Scrypt	PoW/PoS	84000000	2.054653e+
BEET	Beetle Coin	XEVAN	PoW/PoS	500000000	1.989381e+
TTN	Titan Coin	SHA-256D	PoW/PoS	5000000000	8.963612e+
AWR	Award	X11	PoW/PoS	420000000	1.542023e+
BLAST	BLAST	SHA-256	PoW	64000000	5.229384e+
XRC	Bitcoin Rhodium	X13	PoW	2100000	1.170292e+
GLT	GlobalToken	SHA-256	PoW	168000000	8.461310e+
INSN	Insane Coin	X11	PoW/PoS	30000000	2.377596e+
ALX	ALAX	DPoS	DPoS	1000000000	1.000000e+
LDOGE	LiteDoge	Scrypt	PoW/PoS	35000000000	1.531889e+
SLR	SolarCoin	Scrypt	PoW	98100000000	5.556508e+
TRK	TruckCoin	X11	PoW/PoS	0	2.425741e+
UFO	UFO Coin	NeoScrypt	PoW	4000000000	3.824685e+
OC	OrangeCoin	Scrypt	PoW/PoS	200000000	3.537150e+
BLC	BlakeCoin	Blake	PoW	7000000000	2.335679e+
BITS	BitstarCoin	Scrypt	PoW/PoS	54256119	2.057653e+
NEOS	NeosCoin	SHA-256	PoS	21000000	4.392258e+
HYPER	HyperCoin	Scrypt	PoW/PoS	0	9.631200e+
PINK	PinkCoin	X11	PoW/PoS	500000000	4.363536e+
CESC	Crypto Escudo	Scrypt	PoW	1000000000	7.802107e+

	CoinName	Algorithm	ProofType	TotalCoinSupply	TotalCoinsMir
ADC	AudioCoin	Scrypt	PoW/PoS	10500000000	9.807325e+
NKA	IncaKoin	SHA-256	PoW/PoS	190000000	1.793973e+
PIGGY	Piggy Coin	X11	PoW/PoS	1000000000	4.942407e+
CRW	Crown Coin	SHA-256	PoW	42000000	2.298693e+
GEN	Genstake	Scrypt	PoW/PoS	15000000	6.000000e+
SMLY	SmileyCoin	Scrypt	PoW	50000000000	2.958399e+
MI	XiaoMiCoin	Scrypt	PoW/PoS	400000000	4.043165e+
GRS	Groestlcoin	Groestl	PoW	105000000	7.329820e+
CPC	CapriCoin	X11	PoW/PoS	208000000	2.013643e+
CLUB	ClubCoin	Scrypt	PoW/PoS	160000000	1.036219e+
RADS	Radium	PoS	PoS	9000000	3.821246e+
BTA	Bata	Scrypt	PoW	5000000	5.052556e+
PAK	Pakcoin	Scrypt	PoW	182000000	6.968446e+
CRB	Creditbit	X11	Proof of Trust	16504333	1.690102e+
OK	OKCash	SHA-256	PoW/PoS	105000000	7.467606e+
LSK	Lisk	DPoS	DPoS	159918400	1.200121e+
XHI	HiCoin	Scrypt	PoS	10008835635	1.000024e+
XWC	WhiteCoin	Scrypt	PoW/PoS	300000000	2.520056e+
FSC	FriendshipCoin	NeoScrypt	PoW/PoS	60168145	1.120385e+
J	JoinCoin	Multiple	PoW	2800000	3.332922e+
TRI	Triangles Coin	X13	PoW/PoS	120000	1.407778e+
VOLLAR	Vollar	Equihash+Scrypt	PoW	2100000000	1.000000e+
EOS	EOS	DPoS	DPoS	0	1.020545e+
RCC	Reality Clash	Ethash	PoW	24487944	2.448794e+
OXY	Oxycoin	DPoS	DPoS	0	1.122382e+
TCH	TigerCash	SHA-256	PoS	1000000000	1.000000e+
WAVES	Waves	Leased POS	LPoS	100000000	1.000000e+
PART	Particl	PoS	PoS	8634140	9.283138e+
BTT	BitTorrent	TRC10	DPoS	990000000000	9.899887e+
NXT	Nxt	PoS	PoS/LPoS	1000000000	1.000000e+
ZEPH	ZEPHYR	SHA-256	DPoS	2000000000	2.000000e+
GAP	Gapcoin	Scrypt	PoW/PoS	250000000	1.493105e+
BDX	Beldex	CryptoNight	PoW	1400222610	9.802226e+
ZEN	Horizen	Equihash	PoW	21000000	7.296538e+
XBC	BitcoinPlus	Scrypt	PoS	1000000	1.283270e+