

ESTADISTICA Block chain

Data “BITCOIN”

```
In[148]:= WolframAlpha["TIME IN BUENOS AIRES",{{"CurrentGMTTime",1},"ComputableData"]]
```

```
Out[148]= {1:42:14 pmGMT, Friday, October 22, 2021}
```

```
In[149]:= BlockchainData["Blocks",BlockchainBase->"Bitcoin"]
```

```
Out[149]= 706 158
```

```
In[150]:= rawdata=BlockchainBlockData[Range[-1,-100,-1],{"ByteCount","TransactionList"},Block  
blockSizes=First/@rawdata;  
transactionCounts=Length/@Last/@rawdata;  
sizeCountPairs=Thread[{blockSizes,transactionCounts}];  
{minBlockSize,maxBlockSize}=MinMax[blockSizes]
```

```
Out[154]= {49 394, 1 868 775}
```

```
In[155]:= Reverse[{1089061,2124055}]
```

```
Out[155]= {2 124 055, 1 089 061}
```

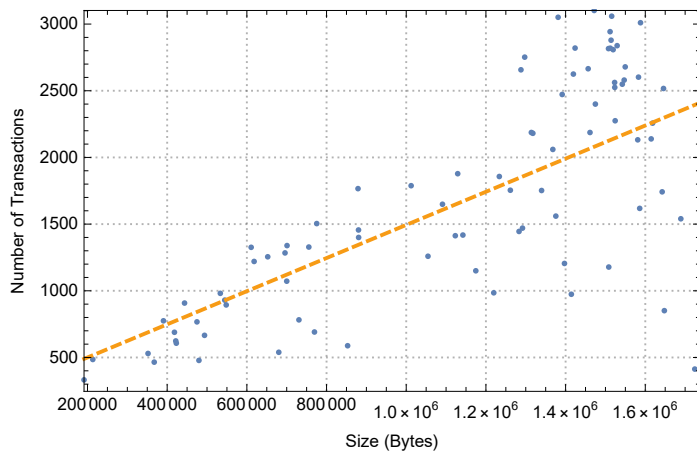
```
In[156]:= lm=LinearModelFit[sizeCountPairs,x,x]
```

```
Out[156]= FittedModel[ $251.558 + 0.00124236 x$ ]
```

In[157]:=

```
inner90Percent=Quantile[sizeCountPairs,{.05,.95}];
Show[ListPlot[sizeCountPairs,PlotRange->inner90Percent,Sequence[PlotTheme->"Detailed"]
```

Out[158]=



In[159]:=

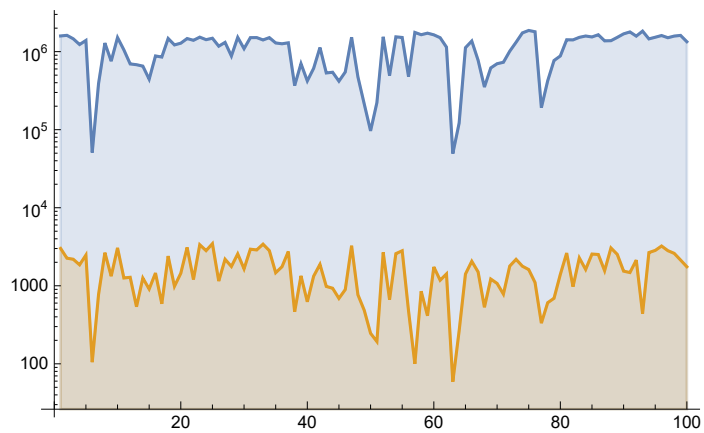
```
lm["AdjustedRSquared"]
```

Out[159]= 0.445529

In[160]:=

```
ListLogPlot[{blockSizes,transactionCounts},Filling->Bottom,Joined->True]
```

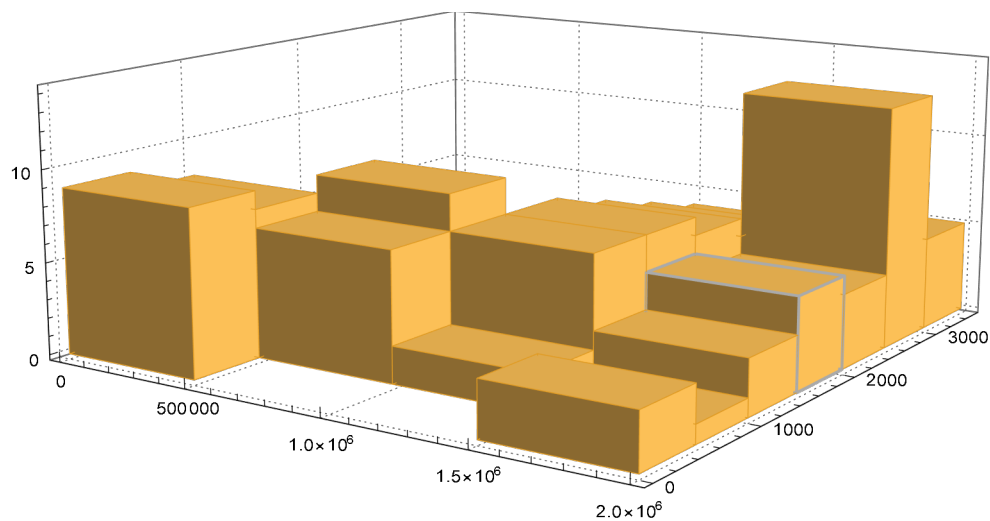
Out[160]=



In[161]:=

```
Histogram3D[sizeCountPairs,ImageSize→Large,PlotTheme→"Detailed"]
```

Out[161]=



WOLFRAM