

Downloading autoviz-0.0.84-py3-none-any.whl (44 kB)

```
Requirement already satisfied: matplotlib in /usr/local/lib/python3.7/dist-packages (from autoviz) (3.2.2)
Requirement already satisfied: seaborn in /usr/local/lib/python3.7/dist-packages (from autoviz) (0.11.2)
Requirement already satisfied: statsmodels in /usr/local/lib/python3.7/dist-packages (from autoviz) (0.10.2)
Requirement already satisfied: scikit-learn in /usr/local/lib/python3.7/dist-packages (from autoviz) (0.22.2.post1)
Requirement already satisfied: xgboost in /usr/local/lib/python3.7/dist-packages (from autoviz) (0.90)
Requirement already satisfied: pandas in /usr/local/lib/python3.7/dist-packages (from autoviz) (1.1.5)
Requirement already satisfied: jupyter in /usr/local/lib/python3.7/dist-packages (from autoviz) (1.0.0)
Requirement already satisfied: ipython in /usr/local/lib/python3.7/dist-packages (from autoviz) (5.5.0)
Requirement already satisfied: decorator in /usr/local/lib/python3.7/dist-packages (from ipython->autoviz) (4.4.2)
Requirement already satisfied: setuptools>=18.5 in /usr/local/lib/python3.7/dist-packages (from ipython->autoviz) (57.4.0)
Requirement already satisfied: pickleshare in /usr/local/lib/python3.7/dist-packages (from ipython->autoviz) (0.7.5)
Requirement already satisfied: pygments in /usr/local/lib/python3.7/dist-packages (from ipython->autoviz) (2.6.1)
Requirement already satisfied: pexpect in /usr/local/lib/python3.7/dist-packages (from ipython->autoviz) (4.8.0)
Requirement already satisfied: prompt-toolkit<2.0.0,>=1.0.4 in /usr/local/lib/python3.7/dist-packages (from ipython->autoviz) (1.0.18)
Requirement already satisfied: simplegeneric>0.8 in /usr/local/lib/python3.7/dist-packages (from ipython->autoviz) (0.8.1)
Requirement already satisfied: traitlets>=4.2 in /usr/local/lib/python3.7/dist-packages (from ipython->autoviz) (5.1.0)
Requirement already satisfied: six>=1.9.0 in /usr/local/lib/python3.7/dist-packages (from prompt-toolkit<2.0.0,>=1.0.4->ipython->autoviz) (1.12.0)
Requirement already satisfied: wcwidth in /usr/local/lib/python3.7/dist-packages (from prompt-toolkit<2.0.0,>=1.0.4->ipython->autoviz) (0.1.7)
Requirement already satisfied: ipykernel in /usr/local/lib/python3.7/dist-packages (from jupyter->autoviz) (4.10.1)
Requirement already satisfied: nbconvert in /usr/local/lib/python3.7/dist-packages (from jupyter->autoviz) (5.6.1)
Requirement already satisfied: notebook in /usr/local/lib/python3.7/dist-packages (from jupyter->autoviz) (5.3.1)
Requirement already satisfied: qtconsole in /usr/local/lib/python3.7/dist-packages (from jupyter->autoviz) (5.1.1)
Requirement already satisfied: ipywidgets in /usr/local/lib/python3.7/dist-packages (from jupyter->autoviz) (7.6.5)
Requirement already satisfied: jupyter-console in /usr/local/lib/python3.7/dist-packages (from jupyter->autoviz) (5.2.0)
Requirement already satisfied: tornado>=4.0 in /usr/local/lib/python3.7/dist-packages (from ipykernel->jupyter->autoviz) (5.1.1)
Requirement already satisfied: jupyter-client in /usr/local/lib/python3.7/dist-packages (from ipykernel->jupyter->autoviz) (5.3.5)
Requirement already satisfied: nbformat>=4.2.0 in /usr/local/lib/python3.7/dist-packages (from ipywidgets->jupyter->autoviz) (5.1.3)
Requirement already satisfied: widgetsnbextension~=3.5.0 in /usr/local/lib/python3.7/dist-packages (from ipywidgets->jupyter->autoviz) (3.5.0)
Requirement already satisfied: jupyterlab-widgets>=1.0.0 in /usr/local/lib/python3.7/dist-packages (from ipywidgets->jupyter->autoviz) (1.0.0)
Requirement already satisfied: ipython-genutils~=0.2.0 in /usr/local/lib/python3.7/dist-packages (from ipywidgets->jupyter->autoviz) (0.2.0)
Requirement already satisfied: jsonschema!=2.5.0,>=2.4 in /usr/local/lib/python3.7/dist-packages (from nbformat>=4.2.0->ipywidgets->jupyter->autoviz) (3.2.0)
Requirement already satisfied: jupyter-core in /usr/local/lib/python3.7/dist-packages (from nbformat>=4.2.0->ipywidgets->jupyter->autoviz) (4.7.0)
Requirement already satisfied: Jinja2 in /usr/local/lib/python3.7/dist-packages (from notebook->jupyter->autoviz) (2.11.3)
Requirement already satisfied: terminado>=0.8.1 in /usr/local/lib/python3.7/dist-packages (from notebook->jupyter->autoviz) (0.12.1)
Requirement already satisfied: Send2Trash in /usr/local/lib/python3.7/dist-packages (from notebook->jupyter->autoviz) (1.8.0)
Requirement already satisfied: python-dateutil>=2.1 in /usr/local/lib/python3.7/dist-packages (from jupyter-client->ipykernel->jupyter->autoviz) (2.8.1)
Requirement already satisfied: pyzmq>=13 in /usr/local/lib/python3.7/dist-packages (from jupyter-client->ipykernel->jupyter->autoviz) (22.3.0)
Requirement already satisfied: ptyprocess in /usr/local/lib/python3.7/dist-packages (from terminado>=0.8.1->notebook->jupyter->autoviz) (0.7.0)
Requirement already satisfied: MarkupSafe>=0.23 in /usr/local/lib/python3.7/dist-packages (from Jinja2->notebook->jupyter->autoviz) (2.0.1)
Requirement already satisfied: numpy>=1.11 in /usr/local/lib/python3.7/dist-packages (from matplotlib->autoviz) (1.19.5)
Requirement already satisfied: pyparsing!=2.0.4,!=2.1.2,!=2.1.6,>=2.0.1 in /usr/local/lib/python3.7/dist-packages (from matplotlib->autoviz) (2.4.7)
Requirement already satisfied: kiwisolver>=1.0.1 in /usr/local/lib/python3.7/dist-packages (from matplotlib->autoviz) (1.3.2)
Requirement already satisfied: cycler>=0.10 in /usr/local/lib/python3.7/dist-packages (from matplotlib->autoviz) (0.10.0)
Requirement already satisfied: mistune<2,>=0.8.1 in /usr/local/lib/python3.7/dist-packages (from nbconvert->jupyter->autoviz) (0.8.4)
Requirement already satisfied: pandocfilters>=1.4.1 in /usr/local/lib/python3.7/dist-packages (from nbconvert->jupyter->autoviz) (1.5.0)
Requirement already satisfied: defusedxml in /usr/local/lib/python3.7/dist-packages (from nbconvert->jupyter->autoviz) (0.7.1)
Requirement already satisfied: entrypoints>=0.2.2 in /usr/local/lib/python3.7/dist-packages (from nbconvert->jupyter->autoviz) (0.3)
Requirement already satisfied: bleach in /usr/local/lib/python3.7/dist-packages (from nbconvert->jupyter->autoviz) (4.1.0)
Requirement already satisfied: testpath in /usr/local/lib/python3.7/dist-packages (from nbconvert->jupyter->autoviz) (0.5.0)
Requirement already satisfied: webencodings in /usr/local/lib/python3.7/dist-packages (from bleach->nbconvert->jupyter->autoviz) (0.5.1)
Requirement already satisfied: packaging in /usr/local/lib/python3.7/dist-packages (from bleach->nbconvert->jupyter->autoviz) (21.0)
Requirement already satisfied: pytz>=2017.2 in /usr/local/lib/python3.7/dist-packages (from pandas->autoviz) (2018.9)
Requirement already satisfied: qtpy in /usr/local/lib/python3.7/dist-packages (from qtconsole->jupyter->autoviz) (1.11.2)
Requirement already satisfied: scipy>=0.17.0 in /usr/local/lib/python3.7/dist-packages (from scikit-learn->autoviz) (1.4.1)
Requirement already satisfied: joblib>=0.11 in /usr/local/lib/python3.7/dist-packages (from scikit-learn->autoviz) (1.0.1)
Requirement already satisfied: patsy>=0.4.0 in /usr/local/lib/python3.7/dist-packages (from statsmodels->autoviz) (0.5.1)
Installing collected packages: autoviz
```

Imported AutoViz_Class version: 0.0.84. Call using:

```
AV = AutoViz_Class()
```

```
AV.AutoViz(filename, sep=',', depVar="", dfte=None, header=0, verbose=0,  
            lowess=False, chart_format='svg', max_rows_analyzed=150000, max_cols_analyzed=30)
```

Note: verbose=0 or 1 generates charts and displays them in your local Jupyter notebook.

verbose=2 does not show plot but creates them and saves them in AutoViz_Plots directory in your local machine.

```
1 df = AV.AutoViz('/content/car_design.csv')
```

Shape of your Data Set loaded: (205, 26)

CLASSIFYING VARIABLES

Classifying variables in data set...

Number of Numeric Columns = 5

Number of Integer-Categorical Columns = 5

Number of String-Categorical Columns = 7

Number of Factor-Categorical Columns = 0

Number of String-Boolean Columns = 3

Number of Numeric-Boolean Columns = 0

Number of Discrete String Columns = 6

Number of NLP String Columns = 0

Number of Date Time Columns = 0

Number of ID Columns = 0

Number of Columns to Delete = 0

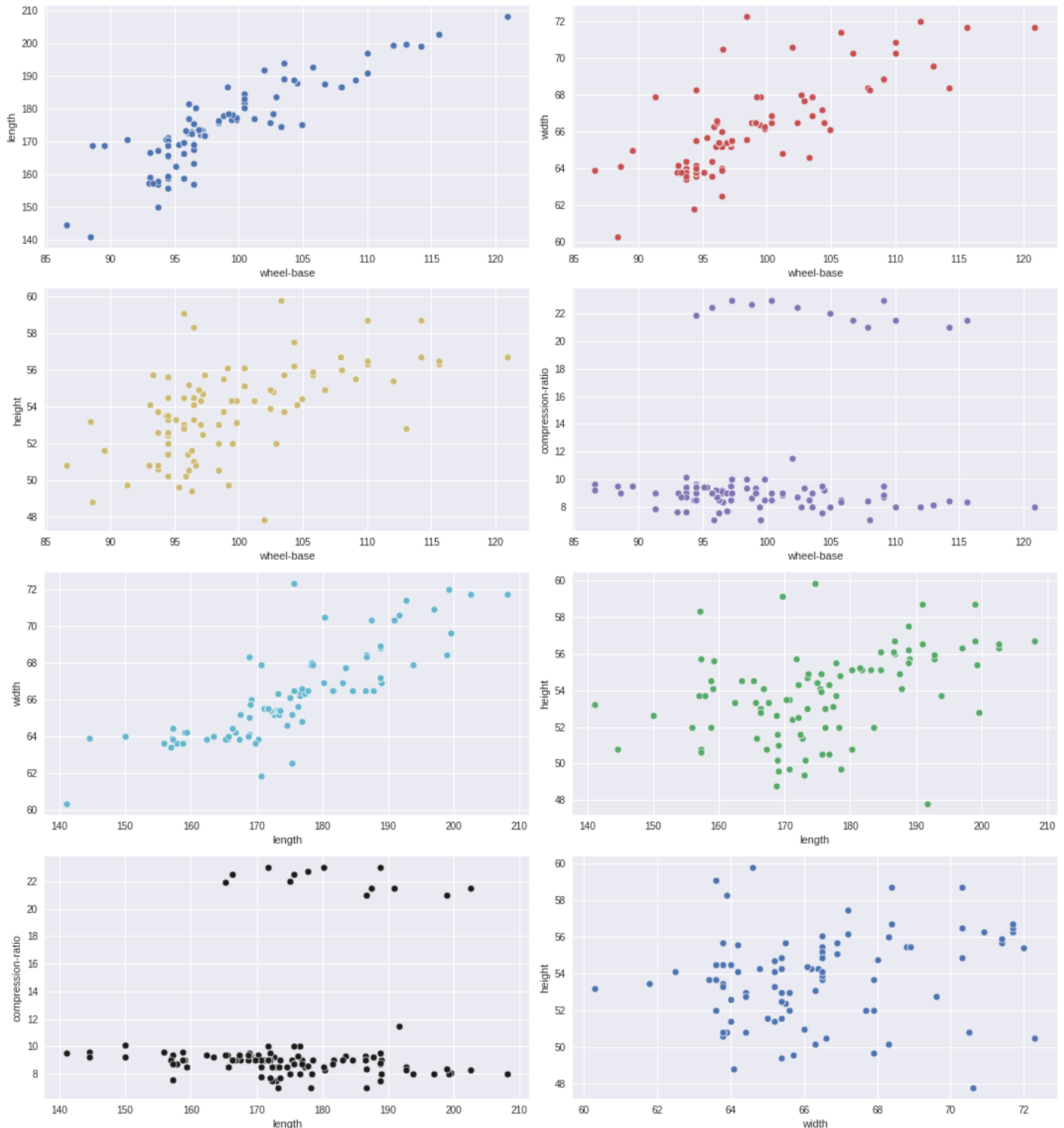
26 Predictors classified...

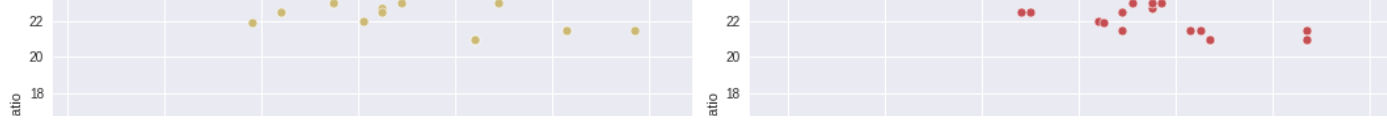
This does not include the Target column(s)

6 variables removed since they were ID or low-information variables

Number of All Scatter Plots = 15

Pair-wise Scatter Plot of all Continuous Variables





Requirement already satisfied: certifi>=2017.4.17 in /usr/local/lib/python3.7/dist-packages (from requests->panel<0.13,>=0.12.1->panel-highcharts)

Requirement already satisfied: urllib3!=1.25.0,!1.25.1,<1.26,>=1.21.1 in /usr/local/lib/python3.7/dist-packages (from requests->panel<0.13,>=0.12.1->panel-highcharts)

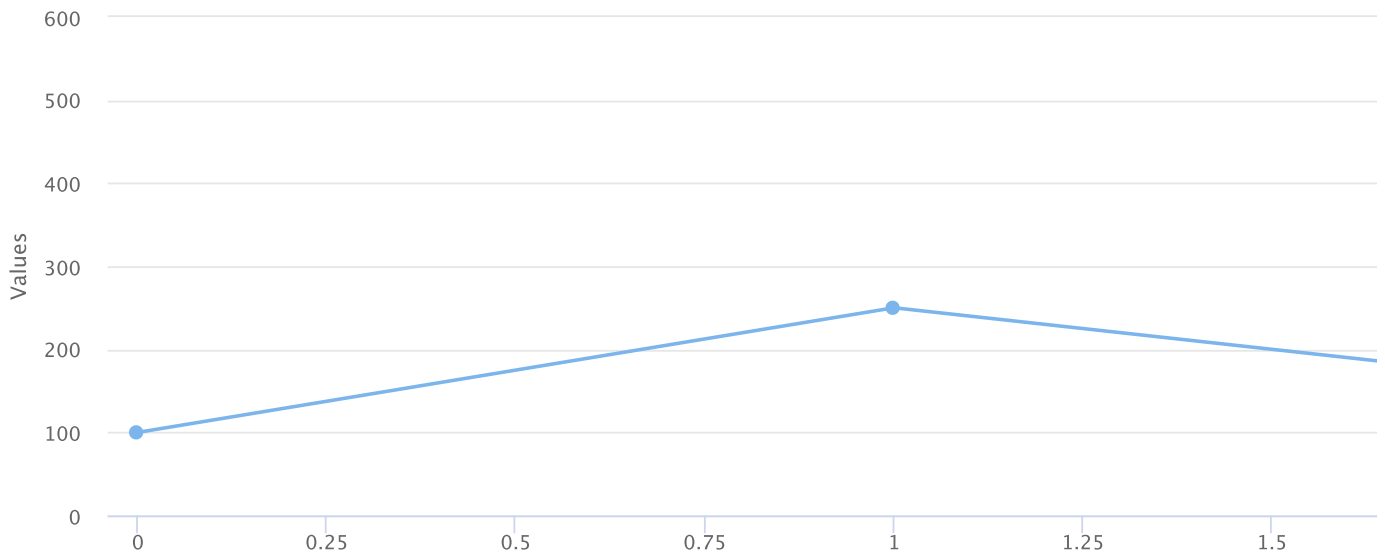
Requirement already satisfied: idna<3,>=2.5 in /usr/local/lib/python3.7/dist-packages (from requests->panel<0.13,>=0.12.1->panel-highcharts)

Installing collected packages: panel-highcharts

Successfully installed panel-highcharts-20210830.1

```
1 import panel_highcharts as ph
2 import panel as pn
3 pn.extension('highchart')

1 #Define the configuration and the data to be used in chart
2 configuration = {
3     "title": {"text": "Line Chart Pane"},
4     "series": [
5         {
6             "name": "Sales",
7             "data": [100, 250, 150, 400, 500],
8         }
9     ]
10 }
11 ph.HighChart(object=configuration, sizing_mode="stretch_width")
```



```
1 chart = ph.HighChart(object=configuration, sizing_mode="stretch_width")
2 settings = pn.WidgetBox(
3     pn.Param(
4         chart,
5         parameters=["height", "width", "sizing_mode", "margin", "object", "event", ],
6         widgets={"object": pn.widgets.LiteralInput, "event": pn.widgets.StaticText},
7         sizing_mode="fixed", show_name=False, width=250,
8     )
9 )
10 pn.Row(settings, chart, sizing_mode="stretch_both")
```

Width

0

Height

0

Margin

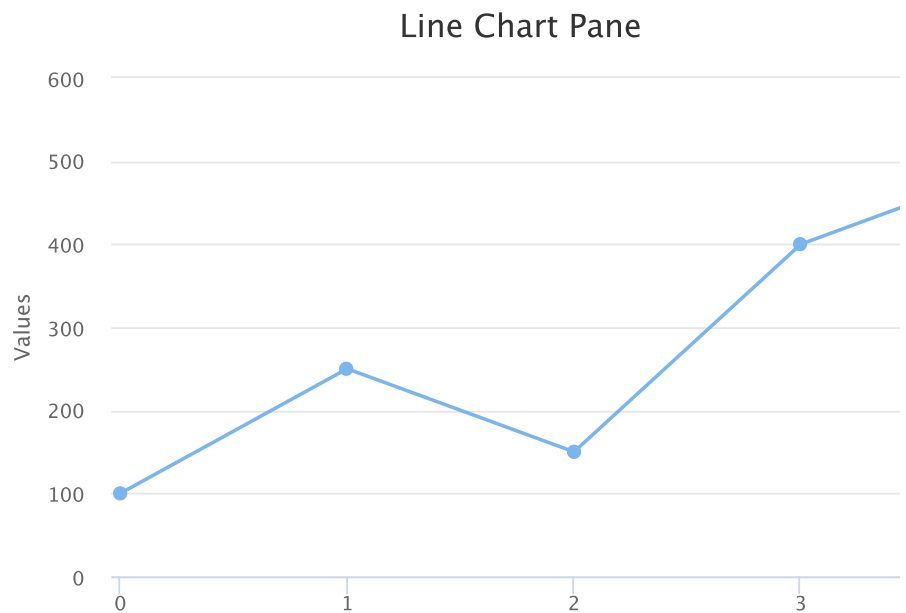
5

Sizing mode

stretch_width

Object

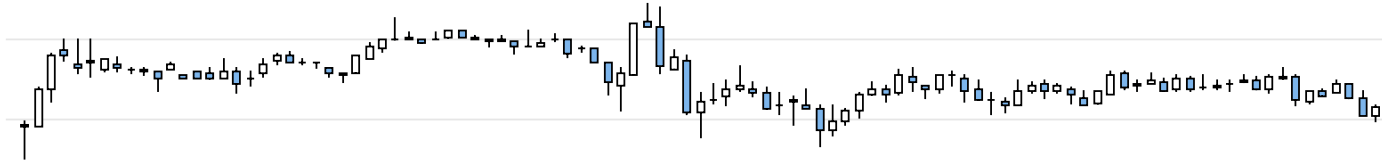
{'title': {'text': 'Line Chart Pane', 'ser



```

1  pn.extension('highstock')
2  import requests, json
3  #Downloading Data
4  data = requests.get('https://cdn.jsdelivr.net/gh/highcharts/highcharts@v7.0.0/samples/data/new-intraday.json').json()
5  #Creating Configuration
6  configuration = {
7      "title": {'text': "AAPL stock price by minute"},
8      "rangeSelector": {
9          "buttons": [
10             {"type": "hour", "count": 1, "text": "1h"},
11             {"type": "day", "count": 1, "text": "1D"},
12             {"type": "all", "count": 1, "text": "All"},
13         ],
14         "selected": 1,
15         "inputEnabled": False,
16     },
17     "series": [
18         {"name": "AAPL", "type": "candlestick", "data": data, "tooltip": {"valueDecimals": 2}}
19     ],
20 }
21 #Visualizing the chart
22 chart = ph.HighStock(object=configuration, sizing_mode="stretch_width", height=600)
23 chart

```

Zoom 1h **1D** All

```

1
2 pn.extension('highmap')
3 #Creating configuration
4 configuration = {
5     "chart": {"map": "custom/europe", "borderWidth": 1},
6     "title": {"text": "Nordic countries"},
7     "subtitle": {"text": "Demo of drawing all areas in the map, only highlighting partial data"},
8     "legend": {"enabled": False},
9     "series": [
10         {
11             "name": "Country",
12             "data": [["is", 1], ["no", 1], ["se", 1], ["dk", 1], ["fi", 1]],
13             "dataLabels": {
14                 "enabled": True,
15                 "color": "#FFFFFF",
16                 "formatter": """function () {
17                     if (this.point.value) {
18                         return this.point.name;
19                     }
20                 }""",
21             },
22             "tooltip": {"headerFormat": "", "pointFormat": "{point.name}"},
23         }
24     ],
25 }
26 #Creating Visualization
27 chart = ph.HighMap(object=configuration, sizing_mode="stretch_width", height=600)
28 #Adding widget box
29 settings = pn.WidgetBox(
30     pn.Param(
31         chart,
32         parameters=["height", "width", "sizing_mode", "margin", "object", "object_update", "event", ],
33         widgets={"object": pn.widgets.LiteralInput, "object_update": pn.widgets.LiteralInput, "event": pn.widgets.StaticText},
34         sizing_mode="fixed", show_name=False, width=250,
35     )
36 )
37 pn.Row(settings, chart, sizing_mode="stretch_both")
38 #Creating Events
39 event_update = {
40     "series": [
41         {
42             "allowPointSelect": "true",
43             "point": {
44                 "events": {
45                     "click": "@on_click"
46                 }
47             }
48         }
49     ]
50 }

```

```

45         "click": "@click;",
46         "mouseover": "@mouseoverFun",
47         "select": "@select",
48         "unselect": "@unselect",
49     }
50 },
51 "events": {
52     "mouseout": "@mouseoutFun",
53 }
54 }
55 ]
56 }
57 chart.object_update=event_update
58 chart.object =configuration = {
59     "chart": {"map": "custom/europe", "borderWidth": 1},
60     "title": {"text": "Nordic countries"},
61     "subtitle": {"text": "Demo of drawing all areas in the map, only highlighting partial data"},
62     "legend": {"enabled": False},
63     "series": [
64         {
65             "name": "Country",
66             "data": [{"is", 1}, {"no", 1}, {"se", 1}, {"dk", 1}, {"fi", 1}],
67             "dataLabels": {
68                 "enabled": True,
69                 "color": "#FFFFFF",
70                 "formatter": ""function () {
71                     if (this.point.value) {
72                         if (this.point.name=="Denmark"){
73                             return "❤️ " + this.point.name;
74                         } else {
75                             return this.point.name;
76                         }
77                     }
78                 }""",
79             },
80             "tooltip": {"headerFormat": "", "pointFormat": "{point.name}"},
81             "allowPointSelect": "true",
82             "point": {
83                 "events": {
84                     "click": "@click;",
85                     "mouseover": "@mouseoverFun",
86                     "select": "@select",
87                     "unselect": "@unselect",
88                 }
89             },
90             "events": {
91                 "mouseout": "@mouseoutFun",
92             }
93         }
94     ],
95 }
96 #Rendering Application
97 app = pn.template.FastListTemplate(
98     site="Panel Highcharts",
99     title="HighMap Reference Example",
100     sidebar=[settings],
101     main=[chart]
102 ).servable()

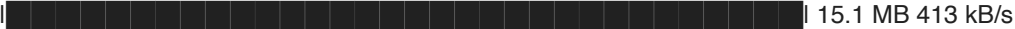
```

WARNING:param.panel_extension: A HoloViz extension was loaded previously. This means the extension is already initialized ;

1 !pip install sweetviz

Collecting sweetviz

Downloading sweetviz-2.1.3-py3-none-any.whl (15.1 MB)



Requirement already satisfied: pandas!=1.0.0,!1.0.1,!1.0.2,>=0.25.3 in /usr/local/lib/python3.7/dist-packages (from sweetviz) (1.1.5)
Requirement already satisfied: scipy>=1.3.2 in /usr/local/lib/python3.7/dist-packages (from sweetviz) (1.4.1)
Requirement already satisfied: jinja2>=2.11.1 in /usr/local/lib/python3.7/dist-packages (from sweetviz) (2.11.3)
Requirement already satisfied: tqdm>=4.43.0 in /usr/local/lib/python3.7/dist-packages (from sweetviz) (4.62.3)
Requirement already satisfied: matplotlib>=3.1.3 in /usr/local/lib/python3.7/dist-packages (from sweetviz) (3.2.2)
Requirement already satisfied: importlib-resources>=1.2.0 in /usr/local/lib/python3.7/dist-packages (from sweetviz) (5.2.2)
Requirement already satisfied: numpy>=1.16.0 in /usr/local/lib/python3.7/dist-packages (from sweetviz) (1.19.5)
Requirement already satisfied: zipp>=3.1.0 in /usr/local/lib/python3.7/dist-packages (from importlib-resources>=1.2.0->sweetviz) (3.5.0)
Requirement already satisfied: MarkupSafe>=0.23 in /usr/local/lib/python3.7/dist-packages (from jinja2>=2.11.1->sweetviz) (2.0.1)
Requirement already satisfied: kiwisolver>=1.0.1 in /usr/local/lib/python3.7/dist-packages (from matplotlib>=3.1.3->sweetviz) (1.3.2)
Requirement already satisfied: cycler>=0.10 in /usr/local/lib/python3.7/dist-packages (from matplotlib>=3.1.3->sweetviz) (0.10.0)
Requirement already satisfied: pyparsing!=2.0.4,!2.1.2,!2.1.6,>=2.0.1 in /usr/local/lib/python3.7/dist-packages (from matplotlib>=3.1.3->sweetviz) (2.8.2)
Requirement already satisfied: python-dateutil>=2.1 in /usr/local/lib/python3.7/dist-packages (from matplotlib>=3.1.3->sweetviz) (2.8.2)
Requirement already satisfied: six in /usr/local/lib/python3.7/dist-packages (from cycler>=0.10->matplotlib>=3.1.3->sweetviz) (1.15.0)
Requirement already satisfied: pytz>=2017.2 in /usr/local/lib/python3.7/dist-packages (from pandas!=1.0.0,!1.0.1,!1.0.2,>=0.25.3->sweetviz) (2019.1)
Installing collected packages: sweetviz
Successfully installed sweetviz-2.1.3









```
1 import pandas as pd
2 df = pd.read_csv("/content/advertising1.csv")
3 df
```

	Daily Time Spent on Site	Age	Area Income	Daily Internet Usage	Ad Topic Line	City	Male	Country	Timestamp	Clicked on Ad
0	68.95	35	61833.90	256.09	Cloned 5thgeneration orchestration	Wrightburgh	0	Tunisia	3/27/16 0:53	0
1	80.23	31	68441.85	193.77	Monitored national standardization	West Jodi	1	Nauru	4/4/16 1:39	0
2	69.47	26	59785.94	236.50	Organic bottom-line service-desk	Davidton	0	San Marino	3/13/16 20:35	0
3	74.15	29	54806.18	245.89	Triple-buffered reciprocal time-frame	West Terrifurt	1	Italy	1/10/16 2:31	0
4	68.37	35	73889.99	225.58	Robust logistical utilization	South Manuel	0	Iceland	6/3/16 3:36	0

```
1 import sweetviz as sv
2 advert_report = sv.analyze(df)
3 advert_report.show_html("Advertising.html")
```

Done! Use 'show' commands to display/save. [100%] 00:00 -> (00:00 left)
Report Advertising.html was generated! NOTEBOOK/COLAB USERS: the web browser MAY not pop up, regardless, the report

1 !pip install streamlit

Collecting streamlit
 Downloading streamlit-0.89.0-py2.py3-none-any.whl (8.3 MB)
 8.3 MB 5.9 MB/s
 Requirement already satisfied: requests in /usr/local/lib/python3.7/dist-packages (from streamlit) (2.23.0)
 Requirement already satisfied: protobuf!=3.11,>=3.6.0 in /usr/local/lib/python3.7/dist-packages (from streamlit) (3.17.3)
 Requirement already satisfied: altair>=3.2.0 in /usr/local/lib/python3.7/dist-packages (from streamlit) (4.1.0)
 Collecting blinker
 Downloading blinker-1.4.tar.gz (111 kB)
 111 kB 56.5 MB/s
 Requirement already satisfied: astor in /usr/local/lib/python3.7/dist-packages (from streamlit) (0.8.1)
 Requirement already satisfied: toml in /usr/local/lib/python3.7/dist-packages (from streamlit) (0.10.2)
 Requirement already satisfied: click<8.0,>=7.0 in /usr/local/lib/python3.7/dist-packages (from streamlit) (7.1.2)
 Requirement already satisfied: tzlocal in /usr/local/lib/python3.7/dist-packages (from streamlit) (1.5.1)
 Collecting watchdog
 Downloading watchdog-2.1.6-py3-none-manylinux2014_x86_64.whl (76 kB)
 76 kB 5.0 MB/s
 Collecting base58
 Downloading base58-2.1.0-py3-none-any.whl (5.6 kB)
 Collecting gitpython!=3.1.19
 Downloading GitPython-3.1.24-py3-none-any.whl (180 kB)
 180 kB 42.1 MB/s
 Requirement already satisfied: numpy in /usr/local/lib/python3.7/dist-packages (from streamlit) (1.19.5)
 Collecting pydeck>=0.1.dev5
 Downloading pydeck-0.7.0-py2.py3-none-any.whl (4.3 MB)
 4.3 MB 50.2 MB/s
 Requirement already satisfied: tornado>=5.0 in /usr/local/lib/python3.7/dist-packages (from streamlit) (5.1.1)
 Requirement already satisfied: cachetools>=4.0 in /usr/local/lib/python3.7/dist-packages (from streamlit) (4.2.2)
 Requirement already satisfied: attrs in /usr/local/lib/python3.7/dist-packages (from streamlit) (21.2.0)
 Collecting validators
 Downloading validators-0.18.2-py3-none-any.whl (19 kB)
 Requirement already satisfied: pandas>=0.21.0 in /usr/local/lib/python3.7/dist-packages (from streamlit) (1.1.5)
 Requirement already satisfied: pillow>=6.2.0 in /usr/local/lib/python3.7/dist-packages (from streamlit) (7.1.2)
 Requirement already satisfied: packaging in /usr/local/lib/python3.7/dist-packages (from streamlit) (21.0)
 Requirement already satisfied: python-dateutil in /usr/local/lib/python3.7/dist-packages (from streamlit) (2.8.2)
 Requirement already satisfied: pyarrow in /usr/local/lib/python3.7/dist-packages (from streamlit) (3.0.0)
 Requirement already satisfied: jinja2 in /usr/local/lib/python3.7/dist-packages (from altair>=3.2.0->streamlit) (2.11.3)
 Requirement already satisfied: entrypoints in /usr/local/lib/python3.7/dist-packages (from altair>=3.2.0->streamlit) (0.3)
 Requirement already satisfied: jsonschema in /usr/local/lib/python3.7/dist-packages (from altair>=3.2.0->streamlit) (2.6.0)
 Requirement already satisfied: toolz in /usr/local/lib/python3.7/dist-packages (from altair>=3.2.0->streamlit) (0.11.1)
 Requirement already satisfied: typing-extensions>=3.7.4.3 in /usr/local/lib/python3.7/dist-packages (from gitpython!=3.1.19->streamlit) (4.1.1)
 Collecting gitdb<5,>=4.0.1
 Downloading gitdb-4.0.7-py3-none-any.whl (63 kB)
 63 kB 1.8 MB/s
 Collecting smmap<5,>=3.0.1
 Downloading smmap-4.0.0-py2.py3-none-any.whl (24 kB)
 Requirement already satisfied: pytz>=2017.2 in /usr/local/lib/python3.7/dist-packages (from pandas>=0.21.0->streamlit) (2018.9)
 Requirement already satisfied: six>=1.9 in /usr/local/lib/python3.7/dist-packages (from protobuf!=3.11,>=3.6.0->streamlit) (1.15.0)
 Requirement already satisfied: ipywidgets>=7.0.0 in /usr/local/lib/python3.7/dist-packages (from pydeck>=0.1.dev5->streamlit) (7.6.0)
 Collecting ipykernel>=5.1.2
 Downloading ipykernel-6.4.1-py3-none-any.whl (124 kB)
 124 kB 62.2 MB/s
 Requirement already satisfied: traitlets>=4.3.2 in /usr/local/lib/python3.7/dist-packages (from pydeck>=0.1.dev5->streamlit) (5.1.1)
 Collecting ipython<8.0,>=7.23.1
 Downloading ipython-7.28.0-py3-none-any.whl (788 kB)
 788 kB 46.6 MB/s
 Requirement already satisfied: importlib-metadata<5 in /usr/local/lib/python3.7/dist-packages (from ipykernel>=5.1.2->pydeck>=0.1.dev5->streamlit) (4.2.0)
 Requirement already satisfied: argcomplete>=1.12.3 in /usr/local/lib/python3.7/dist-packages (from ipykernel>=5.1.2->pydeck>=0.1.dev5->streamlit) (1.12.3)
 Requirement already satisfied: matplotlib-inline<0.2.0,>=0.1.0 in /usr/local/lib/python3.7/dist-packages (from ipykernel>=5.1.2->pydeck>=0.1.dev5->streamlit) (0.1.3)
 Requirement already satisfied: debugpy<2.0,>=1.0.0 in /usr/local/lib/python3.7/dist-packages (from ipykernel>=5.1.2->pydeck>=0.1.dev5->streamlit) (1.6.0)

```

1 import streamlit as st
2 import pandas as pd
3 import numpy as np
4 import plotly.express as px
5 from plotly.subplots import make_subplots
6 import plotly.graph_objects as go
7 import matplotlib.pyplot as plt
8
9

```



```

10 DATA_URL = ("/content/gainers.csv")
11 DATA_UR= ("/content/losers.csv")
12 df=pd.read_csv(DATA_URL)
13 df1=pd.read_csv(DATA_UR)
14
15 st.title("Share Price analysis for May 2019 to May 2020:")
16 st.sidebar.title("Share Price analysis for May 2019 to May 2020:")
17 st.markdown("This application is a Share Price dashboard for Top 5 Gainers and Losers:")
18 st.sidebar.markdown("This application is a Share Price dashboard for Top 5 Gainers and Losers:")
19
20
21 st.sidebar.title("Gainers")
22 select = st.sidebar.selectbox('Share', ['Adani Green Energy', 'GMM Pfaudler', 'AGC Networks', 'Alkyl Amines Chem', 'IOL Chem & Pharma'])
23
24
25 if not st.sidebar.checkbox("Hide", True, key='1'):
26     st.title("Gainers")
27     if select == 'Adani Green Energy':
28         for i in ['AdaLow', 'AdaHigh', 'AdaClose', 'AdaOpen']:
29             df[i] = df[i].astype('float64')
30             avg_20 = df.AdaClose.rolling(window=20, min_periods=1).mean()
31             avg_50 = df.AdaClose.rolling(window=50, min_periods=1).mean()
32             avg_200 = df.AdaClose.rolling(window=200, min_periods=1).mean()
33             set1 = { 'x': df.AdaDate, 'open': df.AdaOpen, 'close': df.AdaClose, 'high': df.AdaHigh, 'low': df.AdaLow, 'type': 'candlestick',}
34             set2 = { 'x': df.AdaDate, 'y': avg_20, 'type': 'scatter', 'mode': 'lines', 'line': { 'width': 1, 'color': 'blue' }, 'name': 'MA 20 periods'}
35             set3 = { 'x': df.AdaDate, 'y': avg_50, 'type': 'scatter', 'mode': 'lines', 'line': { 'width': 1, 'color': 'yellow' }, 'name': 'MA 50 periods'}
36             set4 = { 'x': df.AdaDate, 'y': avg_200, 'type': 'scatter', 'mode': 'lines', 'line': { 'width': 1, 'color': 'black' }, 'name': 'MA 200 periods'}
37             data = [set1, set2, set3, set4]
38             fig = go.Figure(data=data)
39             st.plotly_chart(fig)
40     elif select=='AGC Networks':
41         for i in ['AgcLow', 'AgcHigh', 'AgcClose', 'AgcOpen']:
42             df[i] = df[i].astype('float64')
43             avg_20 = df.AgcClose.rolling(window=20, min_periods=1).mean()
44             avg_50 = df.AgcClose.rolling(window=50, min_periods=1).mean()
45             avg_200 = df.AgcClose.rolling(window=200, min_periods=1).mean()
46             set1 = { 'x': df.AgcDate, 'open': df.AgcOpen, 'close': df.AgcClose, 'high': df.AgcHigh, 'low': df.AgcLow, 'type': 'candlestick',}
47             set2 = { 'x': df.AgcDate, 'y': avg_20, 'type': 'scatter', 'mode': 'lines', 'line': { 'width': 1, 'color': 'blue' }, 'name': 'MA 20 periods'}
48             set3 = { 'x': df.AgcDate, 'y': avg_50, 'type': 'scatter', 'mode': 'lines', 'line': { 'width': 1, 'color': 'yellow' }, 'name': 'MA 50 periods'}
49             set4 = { 'x': df.AgcDate, 'y': avg_200, 'type': 'scatter', 'mode': 'lines', 'line': { 'width': 1, 'color': 'black' }, 'name': 'MA 200 periods'}
50             data = [set1, set2, set3, set4]
51             fig = go.Figure(data=data)
52             st.plotly_chart(fig)
53     elif select == 'GMM Pfaudler':
54         for i in ['GmmLow', 'GmmHigh', 'GmmClose', 'GmmOpen']:
55             df[i] = df[i].astype('float64')
56             avg_20 = df.GmmClose.rolling(window=20, min_periods=1).mean()
57             avg_50 = df.GmmClose.rolling(window=50, min_periods=1).mean()
58             avg_200 = df.GmmClose.rolling(window=200, min_periods=1).mean()
59             set1 = { 'x': df.GmmDate, 'open': df.GmmOpen, 'close': df.GmmClose, 'high': df.GmmHigh, 'low': df.GmmLow, 'type': 'candlestick',}
60             set2 = { 'x': df.GmmDate, 'y': avg_20, 'type': 'scatter', 'mode': 'lines', 'line': { 'width': 1, 'color': 'blue' }, 'name': 'MA 20 periods'}
61             set3 = { 'x': df.GmmDate, 'y': avg_50, 'type': 'scatter', 'mode': 'lines', 'line': { 'width': 1, 'color': 'yellow' }, 'name': 'MA 50 periods'}
62             set4 = { 'x': df.GmmDate, 'y': avg_200, 'type': 'scatter', 'mode': 'lines', 'line': { 'width': 1, 'color': 'black' }, 'name': 'MA 200 periods'}
63             data = [set1, set2, set3, set4]
64             fig = go.Figure(data=data)
65             st.plotly_chart(fig)
66     elif select=='Alkyl Amines Chem':
67         fig = go.Figure(data=[go.Candlestick(x=df['AlkDate'], open=df[' AlkOpen '], high=df[' AlkHigh '], low=df[' AlkLow '], close=df[' AlkClose
68             st.plotly_chart(fig)
69     else:
70         fig = go.Figure(data=[go.Candlestick(x=df['lolDate'], open=df[' lolOpen '], high=df[' lolHigh '], low=df[' lolLow '], close=df[' lolClose ']))
71         st.plotly_chart(fig)

```

```
72
73
74
75 st.sidebar.title("Losers")
76 select = st.sidebar.selectbox('Share', ['Indiabulls Housing', 'YES Bank', 'Indusind Bank', 'GAIL India', 'HDFC Bank'], key='2')
77 if not st.sidebar.checkbox("Hide", True, key='2'):
78     st.title("Losers")
79     if select == 'Indiabulls Housing':
80         fig = go.Figure(data=[go.Candlestick(x=df1['IBDate'], open=df1['IBOpen'], high=df1['IBHigh'], low=df1['IBLow'], close=df1['IBClose'])])
81         st.plotly_chart(fig)
82     elif select == 'YES Bank':
83         fig = go.Figure(data=[go.Candlestick(x=df1['YEDate'], open=df1['YEOpen'], high=df1['YEHHigh'], low=df1['YELow'], close=df1['YEClose'])])
84         st.plotly_chart(fig)
85     elif select == 'Indusind Bank':
86         fig = go.Figure(data=[go.Candlestick(x=df1['INDate'], open=df1['INOpen'], high=df1['INHigh'], low=df1['INLow'], close=df1['INClose'])])
87         st.plotly_chart(fig)
88     elif select == 'GAIL India':
89         fig = go.Figure(data=[go.Candlestick(x=df1['GADate'], open=df1['GAOpen'], high=df1['GAHigh'], low=df1['GALow'], close=df1['GAClose'])])
90         st.plotly_chart(fig)
91     else:
92         fig = go.Figure(data=[go.Candlestick(x=df1['HDDate'], open=df1['HDOpen'], high=df1['HDHigh'], low=df1['HDLow'], close=df1['HDClose'])])
93         st.plotly_chart(fig)
```

2021-10-04 12:02:41.928

Warning: to view this Streamlit app on a browser, run it with the following command:

```
streamlit run /usr/local/lib/python3.7/dist-packages/ipykernel_launcher.py [ARGUMENTS]
```