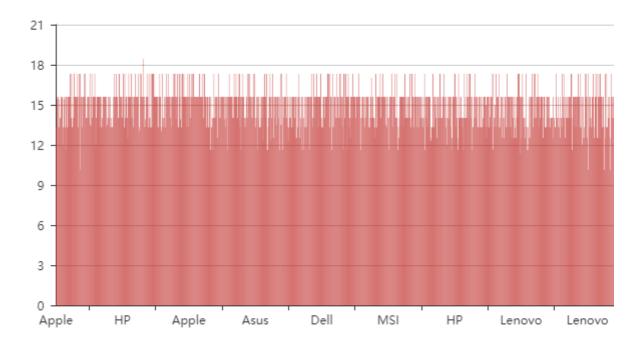
```
import pandas as pd
      df = pd.read_csv('laptops.csv')
      print(df.info())
     <class 'pandas.core.frame.DataFrame'>
     RangeIndex: 1303 entries, 0 to 1302
     Data columns (total 13 columns):
     Manufacturer
                                 1303 non-null object
     Model Name
                                 1303 non-null object
                                 1303 non-null object
     Category
     Screen Size
                                 1303 non-null object
                                 1303 non-null object
     Screen
     CPU
                                 1303 non-null object
     RAM
                                 1303 non-null object
      Storage
                                 1303 non-null object
     GPU
                                 1303 non-null object
     Operating System
                                 1303 non-null object
     Operating System Version 1133 non-null object
     Weight
                                1303 non-null object
     Price (Euros)
                                 1303 non-null object
     dtypes: object(13)
     memory usage: 66.2+ KB
     None
      print(df.columns)
     Index(['Manufacturer', 'Model Name', 'Category', 'Screen Size', 'Screen',
             'CPU', 'RAM', 'Storage', 'GPU', 'Operating System',
             'Operating System Version', 'Weight', 'Price (Euros)'],
           dtype='object')
      def clean_columns(col):
          col = col.strip()
          col = col.replace('(', '')
          col = col.replace(')', '')
          col = col.replace(' ', '_')
          col = col.lower()
          return col
      df.columns = [clean_columns(col) for col in df.columns]
      print(df.columns)
     Index(['manufacturer', 'model_name', 'category', 'screen_size', 'screen',
             'cpu', 'ram', 'storage', 'gpu', 'operating_system',
             'operating_system_version', 'weight', 'price_euros'],
           dtype='object')
# df['screen_size'] = df.screen_size.str.replace('"', '').astype('float')
      # df.rename({'screen_size':'screen_size_inches'}, axis=1, inplace=True)
      df.head()
      from pyecharts import Bar, enable_nteract
```

```
enable_nteract()
bar = Bar("厂家产品尺寸")
name = '厂家'
bar.add(name, df.manufacturer, df.screen_size_inches)
bar
```

厂家产品尺寸





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