```
from google.colab import files
uploaded=files.upload
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
df=pd.read_csv('/content/book_sales.csv')
df.head()
df['Date']=pd.to_datetime(df['Date'])
df.info()
df['Total_Sales']=df['Paperback']+df['Hardcover']
df.head()
plt.figure(figsize=(12,6))
sns.lineplot(data=df,x='Date',y='Total_Sales',color='purple')
plt.title('Total Books Sales Over Time')
plt.xlabel("Date")
plt.ylabel('Total Sales')
plt.grid(True)
plt.show
plt.figure(figsize=(12,6))
sns.lineplot(data=df,x='Date',y='Paperback',label='Paperback',color='coral')
sns.lineplot(data=df,x='Date',y='Hardcover',label='Hardcover',color='teal')
plt.title('Paperback vs Hardcover Sales Over Time')
plt.xlabel('Date')
plt.ylabel('Books Sold')
plt.legend()
plt.grid(True)
plt.plot()
top_day=df[df['Total_Sales']==df['Total_Sales'].max()]
top_day
```

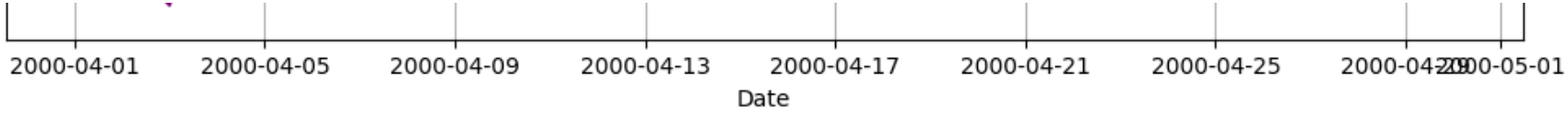
```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 30 entries, 0 to 29
Data columns (total 3 columns):
 #   Column     Non-Null Count  Dtype
---  ------     --------------  -----
 0   Date       30 non-null     datetime64[ns]
 1   Paperback  30 non-null     int64
 2   Hardcover  30 non-null     int64
dtypes: datetime64[ns](1), int64(2)
memory usage: 852.0 bytes
```

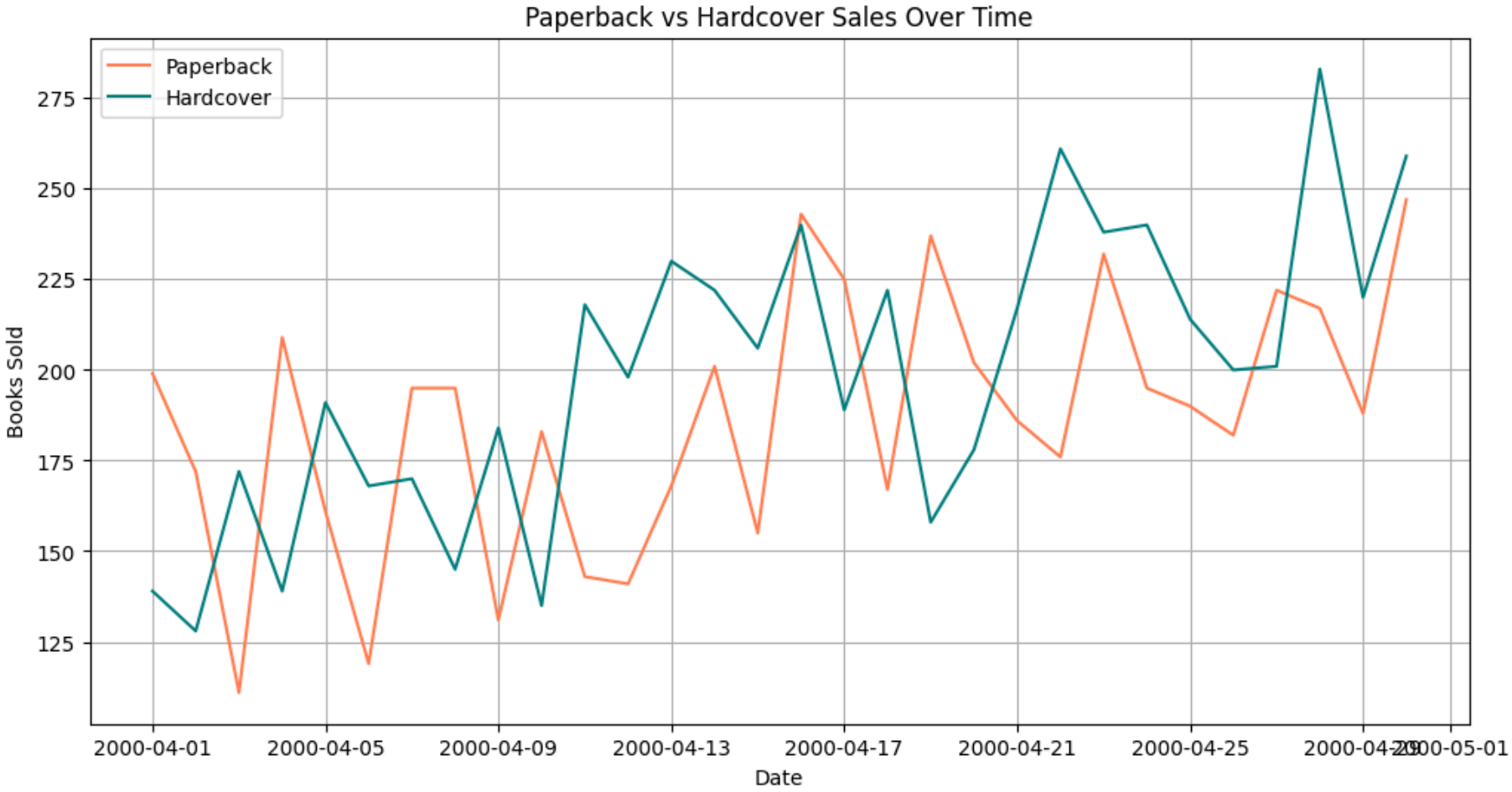
1 entry Filter

index	Date	Paperback ▼	Hardcover	Total_Sales
29	2000-04-30 00:00:00	247	259	506

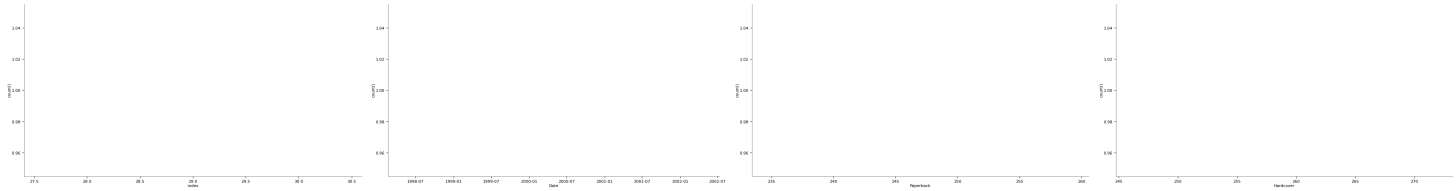
Show 25 per page

Like what you see? Visit the data table notebook to learn more about interactive tables.


2000-04-01
2000-04-05
2000-04-09
2000-04-13
2000-04-17
2000-04-21
2000-04-25
2000-04-29
2000-05-01
Date


Paperback vs Hardcover Sales Over Time
Paperback
Hardcover
Books Sold
275
250
225
200
175
150
125
2000-04-01
2000-04-05
2000-04-09
2000-04-13
2000-04-17
2000-04-21
2000-04-25
2000-04-29
2000-05-01
Date

Time series



Insights

1.Overall Sales Trend

From the total sales chart, we can see that book sales fluctuated over the period. There were some high sales days(peaks), possibly weekends or promotional days. The store has a fairly consistent customer base.

2. Paperback vs Hardcover

When comparing formats, hardcover books had more stable sales, while paperback sales were more up and down. This could mean paperback sales are more senitive to promotions or seasons.

3. Top Selling Day

The highest number of total books sales happened on **April 30,2000** ,with **506 books sold** in total!