

Changes in Sales Over Time

The screenshot shows a web browser window with the URL `campus.datacamp.com/courses/data-manipulation-with-pandas/creating-and-visualizing-dataframes/ex=3`. The page is titled "Changes in sales over time" and is part of a course on "Data Manipulation with pandas".

Exercise: Changes in sales over time

Line plots are designed to visualize the relationship between two numeric variables, where each data value is connected to the next one. They are especially useful for visualizing the change in a number over time since each time point is naturally connected to the next time point. In this exercise, you'll visualize the change in avocado sales over three years.

pandas has been imported as pd, and avocados is available.

Instructions: 100 XP

- Get the total number of avocados sold on each date. The DataFrame has two rows for each date—one for organic, and one for conventional. Save this as `nb_sold_by_date`.
- Create a line plot of the number of avocados sold.
- Show the plot.

[Take Hint \(-30 XP\)](#)

Code Editor: script.py

```
1 # Import matplotlib.pyplot with alias plt
2 import matplotlib.pyplot as plt
3
4 # Get the total number of avocados sold on each date
5 nb_sold_by_date = ____
6
7 # Create a line plot of the number of avocados sold by date
8 ____
9
10 # Show the plot
11 ____
```

[Run Code](#) [Submit Answer](#)

Python Shell: Slides

In [1]:

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Final Answer

```
# Import matplotlib.pyplot with alias plt
import matplotlib.pyplot as plt
```

```
# Get the total number of avocados sold on each date
nb_sold_by_date = avocados.groupby("date")["nb_sold"].sum()
```

```
# Create a line plot of the number of avocados sold by date
nb_sold_by_date.plot(kind="line")
```

```
# Show the plot
plt.show()
```