

データサイエンス実習の準備

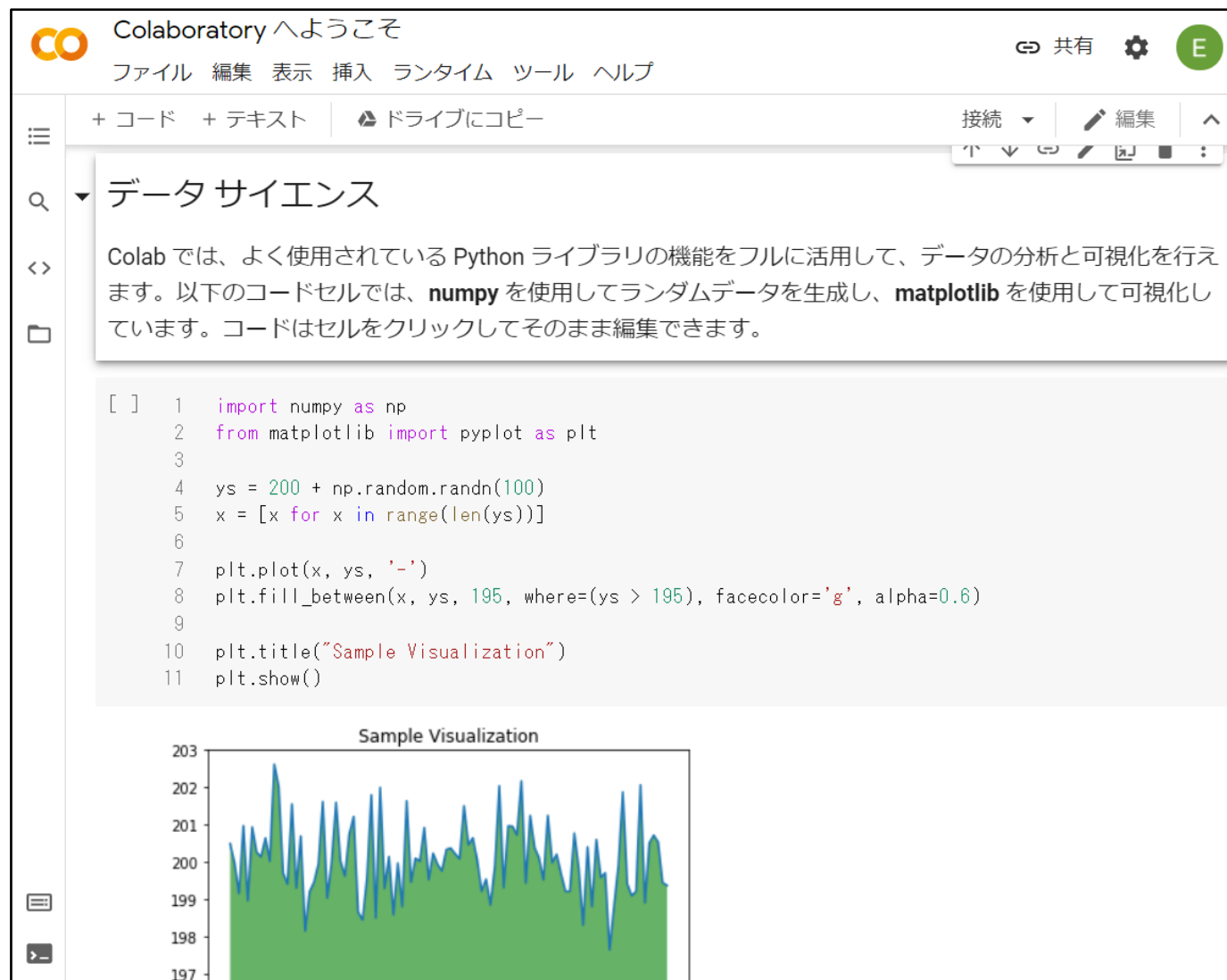
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* ウェブブラウザ経由で無償のクラウド開発環境「Google Colaboratory」を利用します。

* 「Googleアカウント」を最初の実習までに作成して下さい。

* 来週前半にはLive Campusに実習情報を掲載予定です。

参考画面



The screenshot displays the Google Colaboratory web interface. At the top, the title bar reads "Colaboratory へようこそ" (Welcome to Colaboratory) and includes navigation options like "ファイル" (File), "編集" (Edit), "表示" (View), "挿入" (Insert), "ランタイム" (Runtime), "ツール" (Tools), and "ヘルプ" (Help). Below the title bar, there are tabs for "+ コード" (Code) and "+ テキスト" (Text), along with a "ドライブにコピー" (Copy to Drive) button. The main content area is titled "データサイエンス" (Data Science) and contains a text block explaining that Colab allows for full utilization of Python libraries for data analysis and visualization. Below this text is a code cell with the following Python code:

```
[ ] 1 import numpy as np
2 from matplotlib import pyplot as plt
3
4 ys = 200 + np.random.randn(100)
5 x = [x for x in range(len(ys))]
6
7 plt.plot(x, ys, '-')
8 plt.fill_between(x, ys, 195, where=(ys > 195), facecolor='g', alpha=0.6)
9
10 plt.title("Sample Visualization")
11 plt.show()
```

The output of the code cell is a line plot titled "Sample Visualization". The x-axis represents the index of the data points (0 to 99), and the y-axis represents the values of the data points (ranging from 197 to 203). The plot shows a blue line representing the data points, which fluctuates around a mean value of 200. A green shaded area is filled below the line, representing the region where the data points are greater than 195. The plot is titled "Sample Visualization".