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Create a multipage app

In Additional features, we introduced multipage apps, including how to define pages, structure and run multipage apps, and navigate between pages in the user interface. You can read more details in our guide to Multipage apps hello app to a multipage app!

In this guide, let's put our understanding of multipage apps to use by converting the previous version of our streamlit

Motivation Before Streamlit 1.10.0, the streamlit hello command was a large single-page app. As there was no support for multiple

the following steps:

▼ Hello.py

st.set\_page\_config(

O O Mello

← → C ① http://localhost:8501

Select a demo above.

appropriate demo code into it.

Plotting Demo

Plotting Demo

Plotting Demo

100% Complete

← → C ① http://localhost:8501/Plotting\_Demo

× +

×

page\_title="Hello",

pages, we resorted to splitting the app's content using st.selectbox in the sidebar to choose what content to run. The content is comprised of three demos for plotting, mapping, and dataframes. Here's what the code and single-page app looked like: ► hello.py (→ Toggle to expand)

Built with Streamlit 🦻 Fullscreen 🗹

st.set\_page\_config, and we're unable to navigate between pages using URLs. Convert an existing app into a multipage app

Now that we've identified the limitations of a single-page app, what can we do about it? Armed with our knowledge from

the previous section, we can convert the existing app to be a multipage app, of course! At a high level, we need to perform

Notice how large the file is! Each app "page" is written as a function, and the selectbox is used to pick which page to

display. As our app grows, maintaining the code requires a lot of additional overhead. Moreover, we're limited by the

st.selectbox UI to choose which "page" to run, we cannot customize individual page titles with

1. Create a new pages folder in the same folder where the "entrypoint file" (hello.py) lives 2. Rename our entrypoint file to Hello.py, so that the title in the sidebar is capitalized

3. Create three new files inside of pages: pages/1\_Z\_Plotting\_Demo.py pages/2\_ Mapping\_Demo.py

pages/3\_ \_ DataFrame\_Demo.py 4. Move the contents of the plotting\_demo, mapping\_demo, and data\_frame\_demo functions into their

corresponding new files from Step 3 5. Run streamlit run Hello.py to view your newly converted multipage app!

Create the entrypoint file

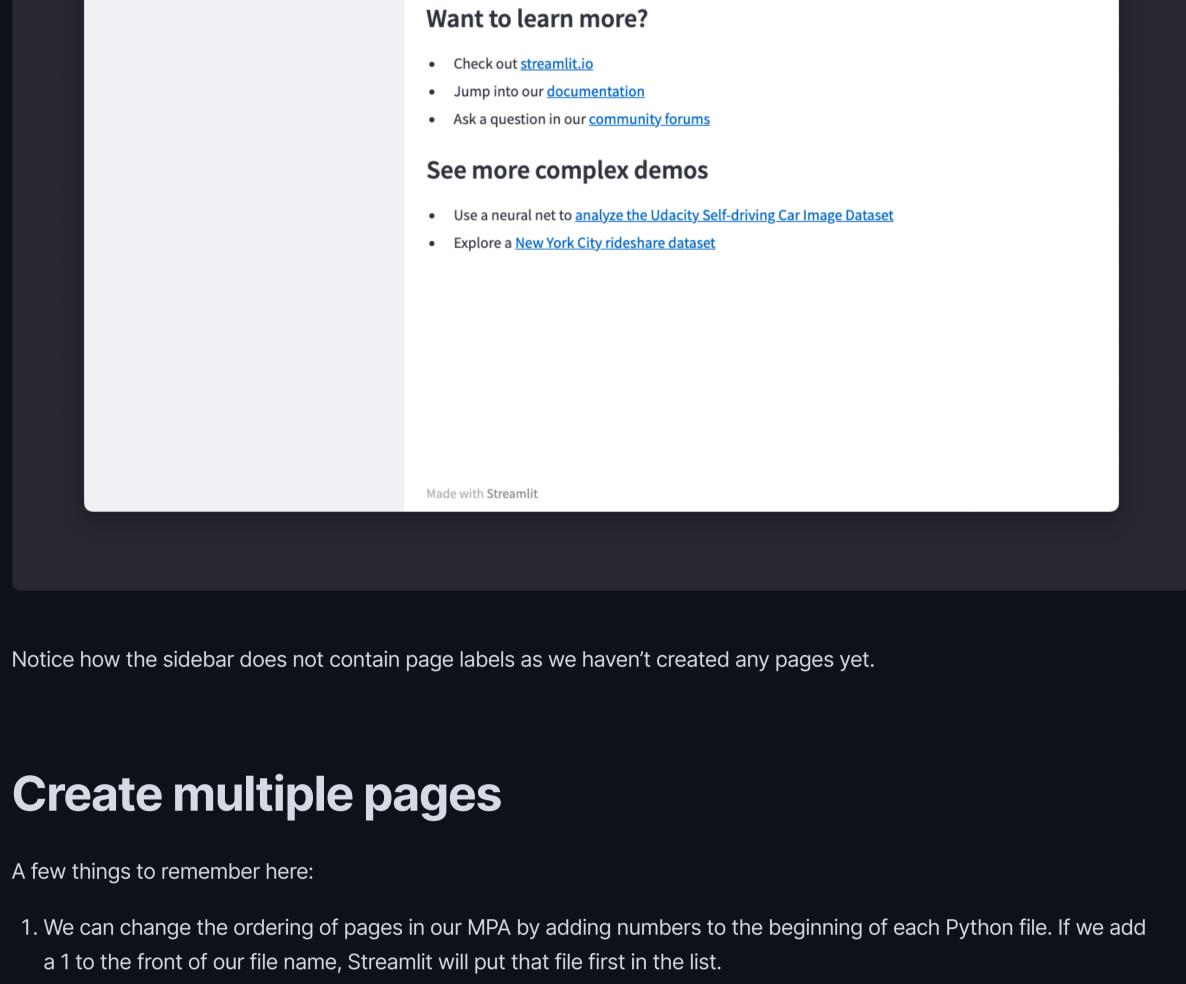
Now, let's walk through each step of the process and view the corresponding changes in code.

import streamlit as st

page\_icon="🦓",

st.write("# Welcome to Streamlit! 🤏") st.sidebar.success("Select a demo above.") st.markdown( 11 11 11 Streamlit is an open-source app framework built specifically for Machine Learning and Data Science projects. \*\* > Select a demo from the sidebar\*\* to see some examples of what Streamlit can do! ### Want to learn more? - Check out [streamlit.io](https://streamlit.io) - Jump into our [documentation](https://docs.streamlit.io) - Ask a question in our [community forums](https://discuss.streamlit.io) ### See more complex demos - Use a neural net to [analyze the Udacity Self-driving Car Image Dataset](https://github.com/streamlit/demo-self-driving) - Explore a [New York City rideshare dataset](https://github.com/streamlit/demo-uber-We rename our entrypoint file to <code>Hello.py</code> , so that the title in the sidebar is capitalized and only the code for the intro page is included. Additionally, we're able to customize the page title and favicon — as it appears in the browser tab with st.set\_page\_config . We can do so for each of our pages too!

Welcome to Streamlit! Streamlit is an open-source app framework built specifically for Machine Learning and Data Science projects. "> Select a demo from the sidebar to see some examples of what Streamlit can do! Want to learn more?



2. The name of each Streamlit app is determined by the file name, so to change the app name you need to change the

Check out how we do all this below! For each new page, we create a new file inside the pages folder, and add the

**Plotting Demo** 

random numbers in a loop for around 5 seconds. Enjoy!

This demo illustrates a combination of plotting and animation with Streamlit. We're generating a bunch of

file name! 3. We can add some fun to our app by adding emojis to our file names that will render in our Streamlit app. 4. Each page will have its own URL, defined by the name of the file.

▶ pages/1\_₩\_Plotting\_Demo.py

Re-run Mapping Demo ₾ ☆ 🖈 🗆 🌭 ← → C i http://localhost:8501/Mapping\_Demo × **Mapping Demo** Hello Plotting Demo This demo shows how to use st.pydeck chart to display geospatial data. Mapping Demo **Mapping Demo** 

Plotting Demo Mapping Demo DataFrame Demo

**DataFrame Demo** 

Hello

▶ pages/3\_╗\_DataFrame\_Demo.py

□ DataFrame Demo

← → C (i) http://localhost:8501/DataFrame\_Demo

Map Layers

Bike Rentals

Bart Stop Exits

Bart Stop Names

Outbound Flow

United States of America China United States of America 1985 1990 With our additional pages created, we can now put it all together in the final step below. Run the multipage app To run your newly converted multipage app, run: streamlit run Hello.py That's it! The Hello.py script now corresponds to the main page of your app, and other scripts that Streamlit finds in the pages folder will also be present in the new page selector that appears in the sidebar.

**DataFrame Demo** 

United States of Am... X

**Gross Agricultural Production (\$B)** 

Explorer.)

Choose countries

This demo shows how to use st.write to visualize Pandas DataFrames. (Data courtesy of the UN Data

1963

1964

1965

Built with Streamlit 🥊

← Previous: Create an app

**Next steps** Congratulations! 🞉 If you've read this far, chances are you've learned to create both single-page and multipage apps. Where you go from here is entirely up to your creativity! We're excited to see what you'll build now that adding additional pages to your apps is easier than ever. Try adding more pages to the app we've just built as an exercise. Also, stop by the

• Deploy your app for free on Streamlit's Community Cloud. • Post a question or share your multipage app on our community forum. • Check out our documentation on Multipage apps.

**Still have questions?** 

Here are a few resources to help you get started:

forum to show off your multipage apps with the Streamlit community! 👂

• Browse our API reference for examples of every Streamlit command.

• Read through Concepts for things like caching, theming, and adding statefulness to apps.

Our forums are full of helpful information and Streamlit experts. Contact Us Community

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Ask Al

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Fullscreen 🗹

**Next:** Develop →