

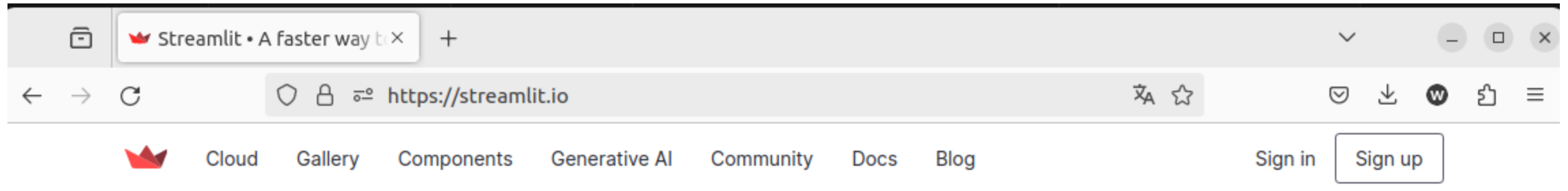
Protótipo

- O que significa **protótipo** ?
 - do grego prótos (primeiro);
 - typos (tipo)
- **Prototipação** é o processo de criação de um protótipo
- **Objetivos:**
 - POC (Prova de Conceito)
 - MVP (Mínimo Produto Viável)

Ainda sobre protótipo:

- A ideia é que com a utilização do protótipo, possamos obter mais feedback e insights para alcançar o objetivo do produto final.
- Podemos pensar nele como sendo um esboço, um rascunho da ideia, e que nos permite testar e validar conceitos antes de investir mais tempo e recursos no desenvolvimento completo.

Streamlit

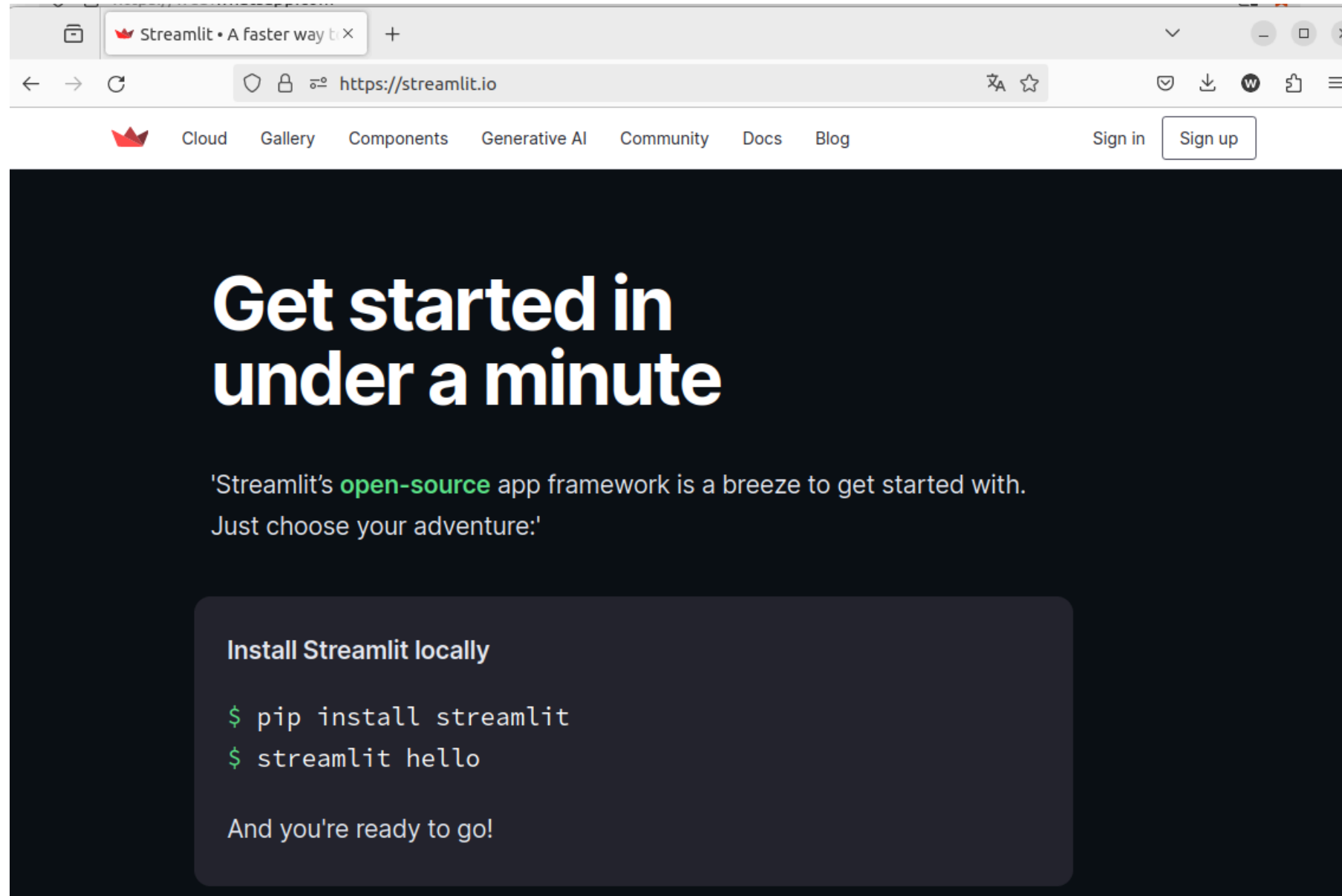


A faster way to build and share data apps

Streamlit turns data scripts into shareable web apps in minutes.
All in pure Python. No front-end experience required.

[Try Streamlit now](#)

[Deploy on Community Cloud \(it's free!\)](#)



The image is a screenshot of a web browser displaying the Streamlit homepage. The browser's address bar shows the URL 'https://streamlit.io'. The website's navigation bar includes links for 'Cloud', 'Gallery', 'Components', 'Generative AI', 'Community', 'Docs', and 'Blog', along with 'Sign in' and 'Sign up' buttons. The main content area has a dark background with the headline 'Get started in under a minute'. Below this, a quote states: 'Streamlit's open-source app framework is a breeze to get started with. Just choose your adventure:'. A dark rounded rectangle contains the text 'Install Streamlit locally' followed by two terminal commands: '\$ pip install streamlit' and '\$ streamlit hello'. The final line in this box says 'And you're ready to go!'.

Streamlit • A faster way to build data apps

Cloud Gallery Components Generative AI Community Docs Blog Sign in Sign up

Get started in under a minute

'Streamlit's **open-source** app framework is a breeze to get started with. Just choose your adventure:'

Install Streamlit locally

```
$ pip install streamlit  
$ streamlit hello
```

And you're ready to go!

Preparando ambiente

```
# Criando o ambiente virtual
$ pyenv virtualenv streamlit_hello

# Ativando o ambiente virtual
$ pyenv activate streamlit_hello
```

Instalando o Streamlit

```
$ pip install streamlit # OU pip install -r requirements.txt
```

Curiosidade: Quais pacotes foram instalados como dependencias do Streamlit?

```
$ pip freeze > requirements-freeze.txt
```

Testando a instalação

```
$ streamlit
Usage: streamlit [OPTIONS] COMMAND [ARGS]...
```

Try out a demo with:

```
$ streamlit hello
```

Or use the line below to run your own script:

```
$ streamlit run your_script.py
```

Options:

```
--log_level [error|warning|info|debug]
--version                               Show the version and exit.
--help                                  Show this message and exit.
```

Commands:

```
activate  Activate Streamlit by entering your email.
cache     Manage the Streamlit cache.
config    Manage Streamlit's config settings.
docs      Show help in browser.
hello     Runs the Hello World script.
help      Print this help message.
run       Run a Python script, piping stderr to Streamlit.
version   Print Streamlit's version number.
```

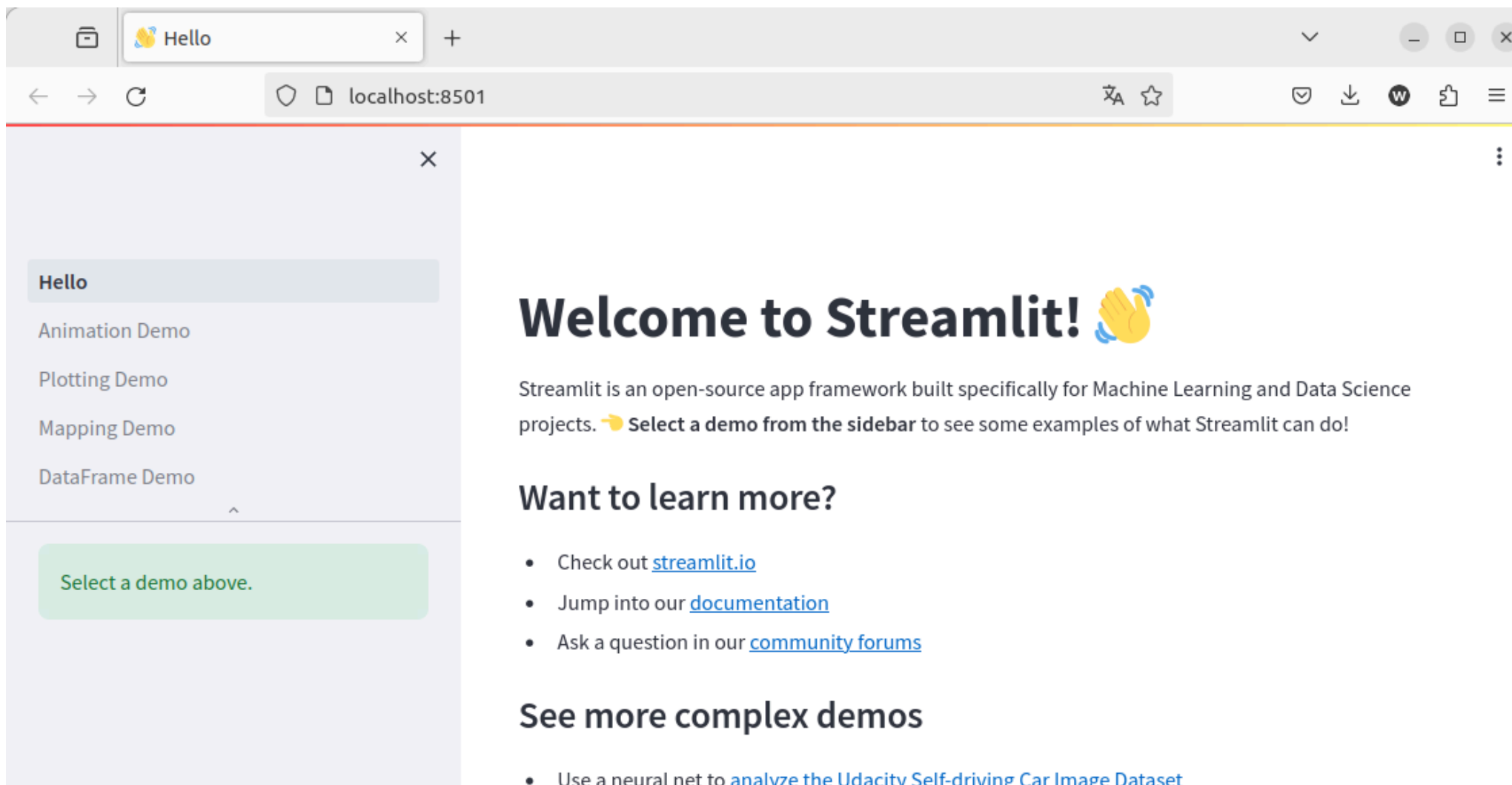
Executando o *hello* do Streamlit

```
$ streamlit hello
Welcome to Streamlit. Check out our demo in your browser.

Local URL: http://localhost:8501
Network URL: http://192.168.0.41:8501

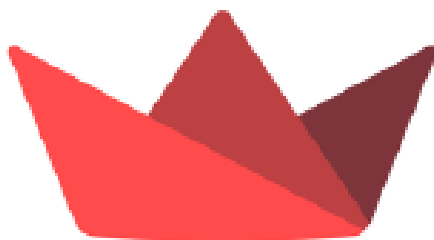
Ready to create your own Python apps super quickly?
Head over to https://docs.streamlit.io

May you create awesome apps!
```

Se quiser dar uma olhada no código "hello world":

```
$ git clone https://github.com/streamlit/streamlit-hello
```



Referências:

- [Modelo de Dados: Entendendo e “re-”construindo - Wesley Seidel](#)
- [Open Source Data Science - Márcio Júnior](#)

Header single column

text single column

Column 1

Column 2

text single column

Column 1

Column 2

Column 3