

## Streamlit notes by @aid4pratham

- 1) `st.button` — allows the display of a button widget.
- 2) `st.write` — allows writing text and arguments to streamlit app
- 3) `st.markdown` (`body`, `unsafe_allow_html=False`, `*`, `help=None`)
  - `body`: The string to display as GitHub-flavoured Markdown.
  - `unsafe_allow_html (bool)`: Whether to render HTML within body. `false` by default.
  - `help` (str) → An optional tooltip that gets displayed next to the markdown.
- 4) `st.header` (`body`, `anchor=None`, `*`, `help=None`, `divider=False`)
  - `anchor (str or False)` → The anchor name of the header that can be accessed with `# anchor` in the URL.
  - `divider (bool or "blue", "green", "red", "orange", "violet", "gray"/"grey", "rainbow")` → shows a colored divider below the header.

- 4) `St. subheader()` → display text in subheader format, same args as head
- 5) `St. caption()` → displays text in small font  
Same args as markdown
- 6) `St. text (body, *, help=None)` → write fixed-width & preformatted text.
- 7) `St. latex()` → displays mathematical expressions formatted as latex  
Same args as text.
- 8) `St. code (body, language="python", *, line-numbers=False, wrap-lines=False)`  
→ display a code block with optional syntax highlighting.
- `language (str or None)` → defines the language of code
  - `line-numbers (bool)` → whether to display line nos. to left of code block
  - `wrap-lines (bool)` → whether to wrap lines
- 9) `St. slider`  
↳ allows the display of a slider input widget

- 10) ~~st. st~~  
st. select-slider → display a slider widget to select items from a list.
- 11) st. line-chart → displays a line chart.
- 12) st. altair-chart → display a chart using the Vega-altair library.
- 13) st. selectbox → allows the display of a select widget.
- 14) st. multiselect → displays a multiselect widget.
- 15) st. checkbox → displays a checkbox widget.
- 16) <sup>secrets</sup> st. ~~secrets~~ → allows you to store ~~conf~~ confidential info. such as API keys, database passwords or other credentials.
- 17) st. file-uploader () → displays a file uploader widget.
- 18) st. set-page-config. (layout = "wide") :-  
— displays the content of the app in wide mode.
- 19) st. sidebar — places the widget or text/image displays in the sidebar.

## Streamlit Components

20> `st.expander` - places text/image displays inside a collapsible container box.

21> `st.columns` - creates a tabular space or columns within which contents can be placed inside.

22> `st.progress()` - displays a progress bar that updates graphically as the iteration progresses.

23> `st.form` - creates a form that batches elements together with a 'Submit' button.

24> `st.experimental_get_query_params` → allows the retrieval of query parameters directly from the URL of user's browser.

25> `st.cache` → allows you to optimize the performance of your Streamlit app. (old)

26> `st.session_state` → allows the implementation of session state in a Streamlit app.

27> `st.cache_data` (new) → cache computations that return data.

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28) st.cache\_resource → (new) cache  
global resources like ML models or  
database connections.

29) st.number\_input → for numeric inputs