

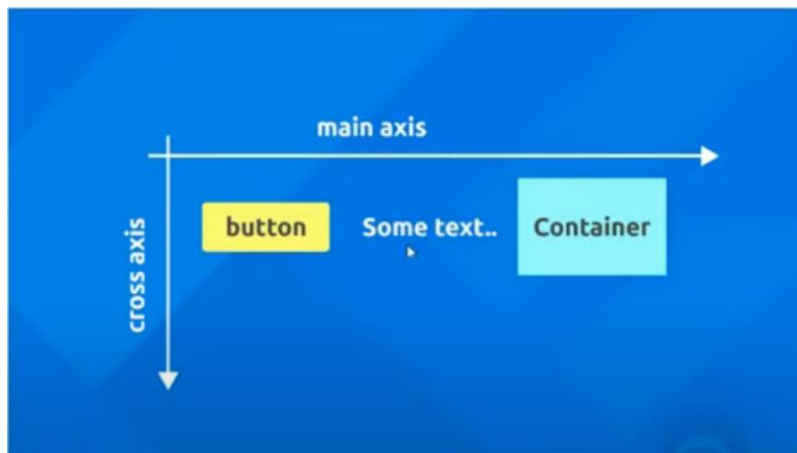
<https://www.youtube.com/playlist?list=PL4cUxeGkcC9jLYyp2Aoh6hcWuxFDX6PBJ>

## Rows

- Row widgets- allows us to have multiple different widgets on the same screen in horizontal arrangement. (row/columns are widgets that can contain other different widgets)
  - o Children- list of widgets in the row (cannot have singular child widget), can include widgets of different types
  - o MainAxisAlignment- property used on the row to control the main axis (left-right) placement of the children widgets (default is start, all widgets at leftmost), takes many different widgets
  - o CrossAxisAlignment- controls cross axis (lengthwise) position of children widgets (default is center, very close to top of app), this alignment is based on tallest widget

\* Comma separate elements of lists

Provided picture:



## Columns

- Allows us to have multiple different widgets on same screen in vertical arrangement
  - o Children- list of widgets in the column (same as rows)
  - o Main axis + cross axis reversed compared to rows

\* Can add rows inside columns, and vice versa

## Flutter Outline + Shortcuts

- Action menu- can be accessed for each widget created by clicking on the widget, expedites certain widget processes, such as moving a widget down, or replacing a widget with its' children
- Flutter outline- accessed from horizontal side menu, in addition to being a visual representation of the widget tree, you can select widgets on the tree to be taken to where they are in the code, and right click widgets to access action menu

### **Expanded Widgets**

- A layout widget that causes its child widget to take up all the space available to it.
  - o Flex property (that takes a number argument) can be assigned to it and dictates the percentage of space that should be dedicated to this flex widget (when next to other flex widget) (default flex value is one (sharing equally))