Dash

1. **LAYOUT**

* html.B() # Bold
* html.Hr() # underline for text
* Explanation of [keywords](https://dash-bootstrap-components.opensource.faculty.ai/l/components/card) html
* html.Label('Dropdown'),
* className equivalent of “class” inside an HTML div
* For multiple objects in same plane
  + .Div( className= ‘row’, children=[ Div )
* **12 columns in dash!**
* [Cards](https://dash-bootstrap-components.opensource.faculty.ai/l/components/card)
  + flexible contrainer
* dictionary style for options: action\_options = [{'label': k, 'value': v} for k,v in {('Sell Signal',0),('Buy Signal',1)}]
* dictionary style for timerange: pd.DatetimeIndex(df.reset\_index()['Date']).year

1. **Loading Local Image**
   1. [link](https://community.plot.ly/t/adding-local-image/4896/16) dayxx369
   2. pre work

image\_filename = 'C:/Users/09ale/Desktop/Work/tradeHub\_v1/other/tab1\_example.png'

encoded\_image = base64.b64encode(open(image\_filename, 'rb').read())

* 1. In app layout

html.Img(src='data:image/png;base64,{}'.format(encoded\_image.decode())),

* 1. To change size of [image](https://stackoverflow.com/questions/58483221/how-to-change-image-size-in-plotly-dash?rq=1)
     1. set style parameters within .Img()
     2. style={'width':'{}%'.format(width)}

1. **Tabs** 
   1. [link](https://dash.plot.ly/dash-core-components/tabs) building and styling
2. **Hiding plots** 
   1. [Dash hiddem/dynamic subtabs](file:///C:\Users\09ale\Desktop\hidden\dynamic%20inputs)
   2. [Dash hide plots](https://stackoverflow.com/questions/50852743/plotly-figure-hide-and-display)
3. **Security & Accessibility**
4. **Chained callbacks** 
   1. [dash\_chainedCallbacks\_notes](https://dash.plot.ly/getting-started-part-2)
   2. [dash\_examples\_study](https://medium.com/plotly/7-of-the-dash-communitys-latest-creations-ed4f53e0b1fa)
5. **Multiple Apps** 
   1. [dash\_multiple\_apps](https://dash.plot.ly/urls)
   2. [dash\_MA\_example](https://towardsdatascience.com/create-a-multipage-dash-application-eceac464de91)
6. **Embedding graphs to website**
   1. [dashEmbed\_website](https://community.plot.ly/t/embed-dash-plot-into-web-page/5337/7)
   2. [chartStudio\_webEmbed](https://plot.ly/chart-studio-help/embed-graphs-in-websites/)
   3. [plotsEmbedded\_example](https://www.wired.com/2014/08/lego-cost/)
7. **Store USER selections** 
   1. [examples](a.%09https:/dash.plotly.com/dash-core-components/store)
   2. [component list](https://dash.plotly.com/dash-core-components/rangeslider)
   3. [dash\_save\_selection](https://dash.plot.ly/persistence)
8. **html style sheet components** 
   1. [html 🡪 dash](https://dash.plotly.com/dash-html-components)
   2. [html5 guide US](https://developer.mozilla.org/en-US/docs/Web/HTML/Element)
      1. html.P > paragraph
      2. html.B > bold
      3. html.Hr > underline
9. **Dash BootStrap Components dbc**
   1. unlike **dcc** (Dash Core Component )
   2. <https://dash-bootstrap-components.opensource.faculty.ai/>
   3. [examples of better layout flexibility](https://dash-bootstrap-components.opensource.faculty.ai/examples/)
      1. [code from github](https://github.com/facultyai/dash-bootstrap-components/tree/master/examples/gallery)
   4. [sidebar](https://dash-bootstrap-components.opensource.faculty.ai/examples/simple-sidebar/page-3)
10. **Centre elements in tab**
    1. [forum answer](https://community.plotly.com/t/center-alignment-for-html-div-dcc-slider/12337/6)
    2. enclose element in new Div() , set padding right and left in style
    3. d