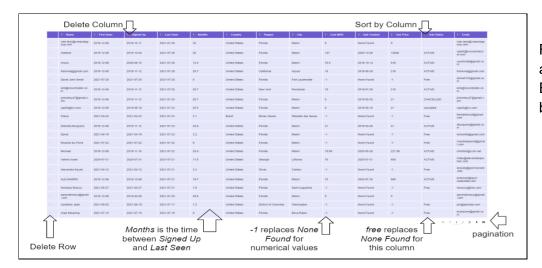
Deepblocks Dashboard Guide:

Jonah & Yuhan, Interns Summer 2021

Dash Link: https://deepblocks-dashboard.herokuapp.com/

Functionalities

Data Table



Recent addition: Export to CSV button (top left)

Controls Sidebar

- All options in the sidebar manipulate the data table.
- To hide the sidebar and see the full table and graphs, use the horizontal scroll.
- By default, 150 users appear on the table upon loading.
 - Upon opening the dashboard, load all users in database by using *Load Data* button.
 - This button can only be pressed once.
 - Use *Default Table* button to show the table upon making any load or search changes.
- The *Update Data* button will pull recent data from Intercom
- Searches, including name and date range, can be used to filter the table.
 - Default table button will reset the table after filtering.
 (May need to be pressed multiple times to load all pages)



Мар



- Map displays the 100 most recent users' subscription status.
 - User locations are based off of city/region coordinates from Intercom
- When first opening the dashboard, use *load map* button to display the map.
 - Double click a dot on legend to isolate a single status.
 - Double click again to show all.
- Hover over point to show subscription status.
- Export PNG option available in the toolbar at the upper left hand corner.



Fort Landerdal

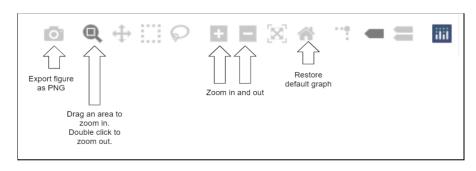
Miam

Active Users

Non Renewing

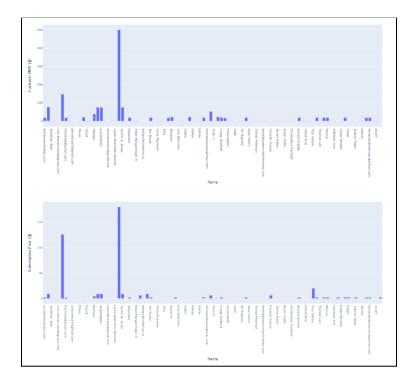
Plotly Built-in Toolbar

 Hover over graph to show on right hand corner



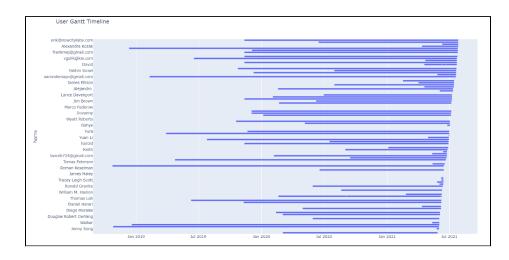
MRR & Plan price Bar Graphs

- Hover over bars to show respective values
- Because of spacing, the names on the x-axis may not correlate to the bars; this discrepancy can be clarified by zooming in.



User Gantt Timeline

- Displays the duration of time from the users' sign-up date to the date in which they were last seen. Hover over the bar to show exact dates.
- The timeline is ordered by the most recent users.



Python: Dash and Plotly

 The dashboard utilizes Plotly's Dash (including Bootstrap and Core components) as well as Pandas.

Adding Columns to Data Table from Intercom

```
while next_page:

r = requests.post("https://api.intercom.io/contacts/search", auth = HTTPBasicAuth(token, ID), json=query)
site_data = r.json()
pages += 1
for data_point in site_data['data']:

...
                                     try:
name.append(data_point['name'])
                                                                                                                                                                                                                                                                                                                                           Append item using
                                                             name.append("None Found")
                                                                                                                                                                                                                                                                                                                                                             Intercom API
                                     try:
    email.append(data_point['email'])
                                       except:
email.append("None Found")
                                       \label{try:created_at_append} created_at.append(datetime.datetime.fromtimestamp(data_point['created_at']).strftime('\color=\color=\color=d')') and the color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=col
                                         except:
created_at.append("2016-12-02")
                                       \label{try:signed_up_at_append} \textbf{(datetime.datetime.fromtimestamp(data_point['signed_up_at']).strftime('\coloredge'\coloredge'\coloredge'\coloredge')} \\
                                       except: signed_up_at.append(datetime.datetime.fromtimestamp(data_point['created_at']).strftime('%Y-%m-%d'))
                                       \label{eq:continuous} last\_seen\_at.append(datetime.datetime.fromtimestamp(data\_point[`last\_seen\_at']).strftime('\coloredge'\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\coloredge'-\
                                                          last_seen_at.append("2016-12-02")
                                                               user_length.append(round((data_point['last_seen_at'] - data_point['signed_up_at'])/2592000,1))
                                       except:
user_length.append(0)
                                       try:
    country.append(data_point['location']['country'])
                                                             country.append("None Found")
```

```
data_collected = {'Name':name,'First Seen':created_at, 'Signed Up':signed_up_at, 'Last Seen':last_seen_at, 'Months':user
'Country':country,'Region':region,'City':city,'Cust MRR':cb_cust_mrr,'Sub Created':cb_sub_created_at,
'Sub Price':cb_sub_plan_price, 'Sub Status':cb_sub_status,'Email':email}

Add to
data_collected
dictionary
```

Adding Figures to the Dashboard

Fig 1.

```
fig4 = px.bar(initial_df, x="Name", y="Sub Price", barmode="group", width=1500, height=700, )
fig4.update_yaxes(title_text='Subscription Price ($)')
```

Fig 2.

Fig 3.

- Dashboard figures are numbered and created using various Plotly graph objects. (Fig 1.)
- Basic plotly chart implementations can be found here:

https://plotly.com/python/basic-charts/

- To append data to a graph, use list names in the data_collected dictionary. (Fig 2.)
- Dashboard contents are separated into rows using Bootstrap. (Fig 3.)
- The content card holds all of the rows of figures. (Fig 3.)

```
content_third_row = dbc.Row(
   [
       dbc.Col(
           dcc.Graph(id='graph_5',figure = fig3)
content_fourth_row = dbc.Row(
       dbc.Col(
            dcc.Graph(id='graph_6',figure = fig4)
content_fifth_row = dbc.Row(
       dbc.Col(
           children = [
           dcc.Graph(id='graph_7', figure = fig5)
content = dbc.Card(
       html.H1("Deepblocks Dashboard", style=TEXT_STYLE),
       html.Hr()
       content_first_row,
       content_second_row,
       content_third_row,
       content_fourth_row,
       content_fifth_row
   style=CONTENT_STYLE
```