Meeting #4

9-30-21

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Deliverables

- Read over and implement simple callbacks
    - Try to work with EEG data

Methodology and Learnings

- Plotly dash tutorials

- Callbacks

Results

```python
# create fourth tab
dcc.Tab(label="Callbacks", children=[
    dcc.Graph(id='graph-with-dropdown'),
    dcc.Dropdown(
        id='dropdown-for-graph',
        options=[
            {'label': 'Left EAR', 'value': 'Left_EAR'},
            {'label': 'Right EAR', 'value': 'Right_EAR'},
            {'label': 'EAR Average', 'value': 'EAR_Avg'}
        ],
        value='Left_EAR'
    )
])
```

```python
# Updates graph when the dropdown is changed
@app.callback(
    dash.dependencies.Output('graph-with-dropdown', 'figure'),
    dash.dependencies.Input('dropdown-for-graph', 'value')
)
def update_graph(selected_value):
    fig = {
        # input and type of graph
        'data':
            [
                {'x': df["TimeStamp"], 'y': df[selected_value],
                 'type': 'line'}
            ],

        # labels
        'layout':
            {
                'title': 'EAR Data',
                'yaxis': {
                    'title': 'Value'
                },
                'xaxis': {
                    'title': 'Time'
                }
            }
    }
    return fig
```
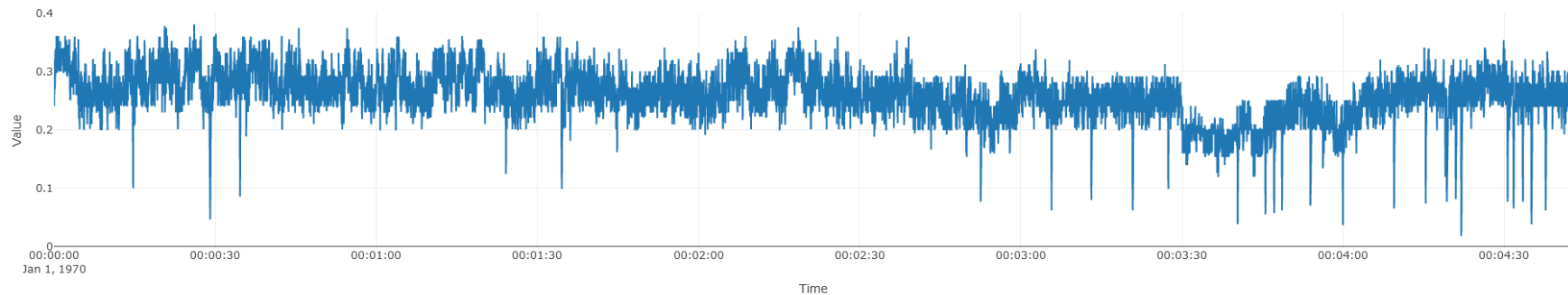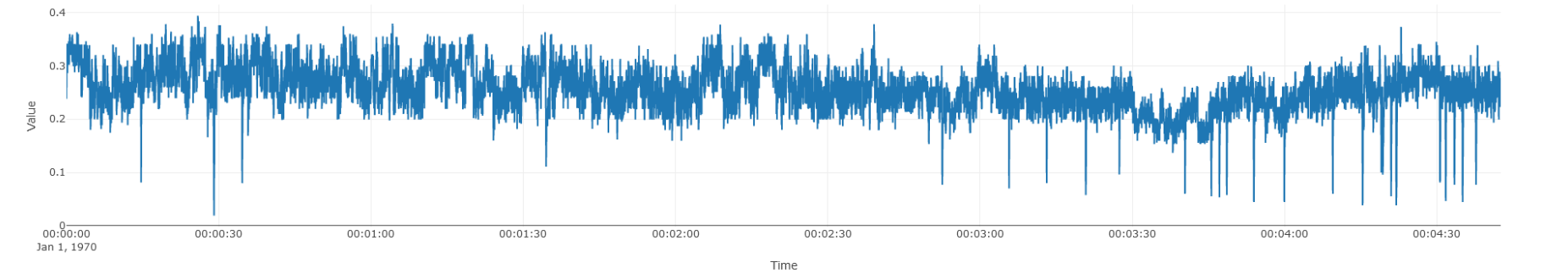
Results

Results

EAR Data

Right EAR

Left EAR

Right EAR

EAR Average

Results

EAR Data

Left EAR

Right EAR

EAR Average