easyplot

September 24, 2023

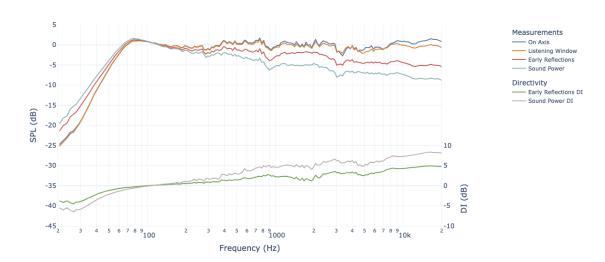
Simple notebook for plotting speaker data

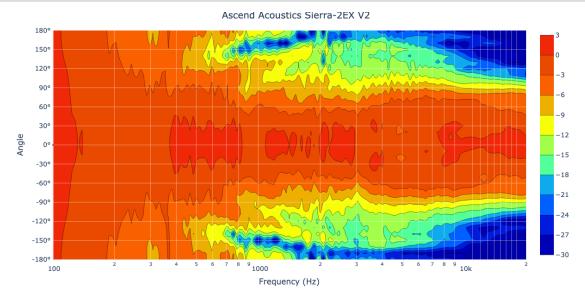
```
[9]: import numpy as np
      import pandas as pd
      import plotly as plt
[10]: from spinorama.load_spl_hv_txt import parse_graph_spl_hv_txt
      from spinorama.load import filter_graphs
[11]: # dir = 'where your files are'
      # the parser expect to find the 72 files in this directory
      # name of the file is *_H angle.txt for horizontal measurements with angle_
      ⇔between -170 and 180 in 10 degrees increment
      # name of the file is * V angle.txt for vertical measurements with angle_
      ⇒between -170 and 180 in 10 degrees increment
      speaker = "Ascend Acoustics Sierra-2EX V2"
      dir = f"../datas/measurements/{speaker}/vendor"
      # read horizontal and vertical data
      # spl_H and spl_V are dataframe
      _, spl_H = parse_graph_spl_hv_txt(dir, "H")
      _, spl_V = parse_graph_spl_hv_txt(dir, "V")
      # put them in a convenient dictionnary of dataframe
      df = filter_graphs(speaker, spl_H, spl_V)
[12]: from spinorama.compute_cea2034 import compute_cea2034
[13]: # compute the spin
      spin = compute_cea2034(df["SPL Horizontal_unmelted"], df["SPL__
       ⇔Vertical unmelted"])
[14]: import spinorama.plot as plot
      # example of the parameters you can change for the layout
      # see plotly documentation for all the options
      my_layout = dict(
          width=1000,
```

```
height=600,
    title=dict(
        x=0.5,
        y=1.0,
        xanchor="center",
        yanchor="top",
        text=speaker,
        font=dict(
            size=20,
        ),
    ),
    legend=dict(
        x=1.2,
        y=1,
        xanchor="center",
        orientation="v",
        font=dict(
            size=12,
        ),
    ),
    font=dict(size=14),
)
```

```
[15]: plot_spin = plot.plot_spinorama(spin, plot.plot_params_default)
    plot_spin.update_layout(my_layout)
    plot_spin
```

Ascend Acoustics Sierra-2EX V2





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