Visualizing Categorical Time Series

a simple hard thing in matplotlib

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Jellybooks

It's a race!



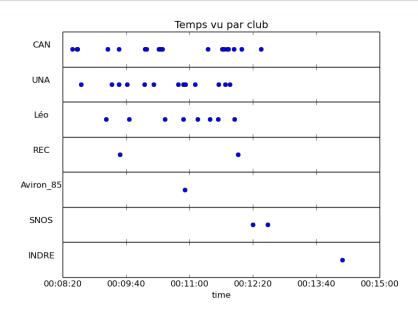
It's a race!



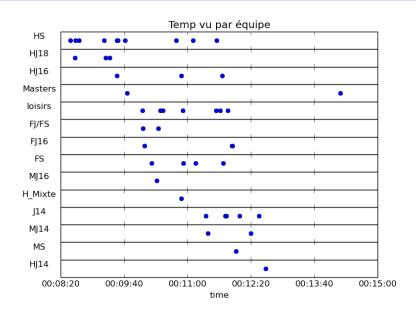
What I want

How did we do by club/by category?

What I want



What I want



import matplotlib.pyplot as plt these times = times[times.team == team] plt.plot(these times.time.as matrix(), np.ones(len(these times)), 'o') plt.set_ylabel(team, rotation='horizontal'. labelpad=30) plt.set yticks([]) plt.set ybound(0.5, 1.5)plt.set position([0.1, 0.1, 8.0, 1.0]) plt.set yticks([])

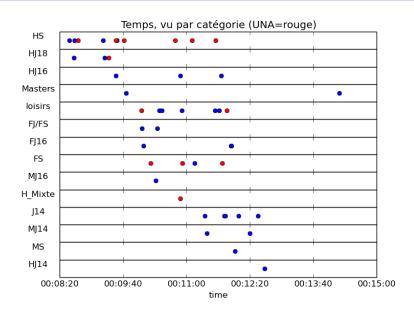
ax[index].set position([0.1, 0.1, 8.0, 1.0])

ax[index].set ybound(0.5, 1.5)

ax[index].set yticks([])

```
teams = times.team.unique() # ['time', 'team']
fig, ax = plt.subplots(len(teams),
                       sharex=True, sharey=True)
for index , team in enumerate(teams):
    these times = times[times.team == team]
    # and do what was on the previous slide
ax[0].set title('Time_by_team')
min tick = ax[0]. get xticks(). min()
\max tick = ax[0]. qet xticks(). max()
ax[0].set xticks(np.linspace(min tick,
                              max tick, 6))
fig.subplots_adjust(hspace=0)
```

I want more!



I want more!

Remember when we said this?

I want more!

So instead say this:

And everyone is happy!



Questions?

github.com/JeffAbrahamson/talks/