Plotly Dashboard Creation



Session Plan...

- 1. Intro
- 2. Basic HTML
- 3. Building a basic app

- 4. Adding a Visualisation
- 5. The power of callbacks
- 6. Further examples

...and then we are done!

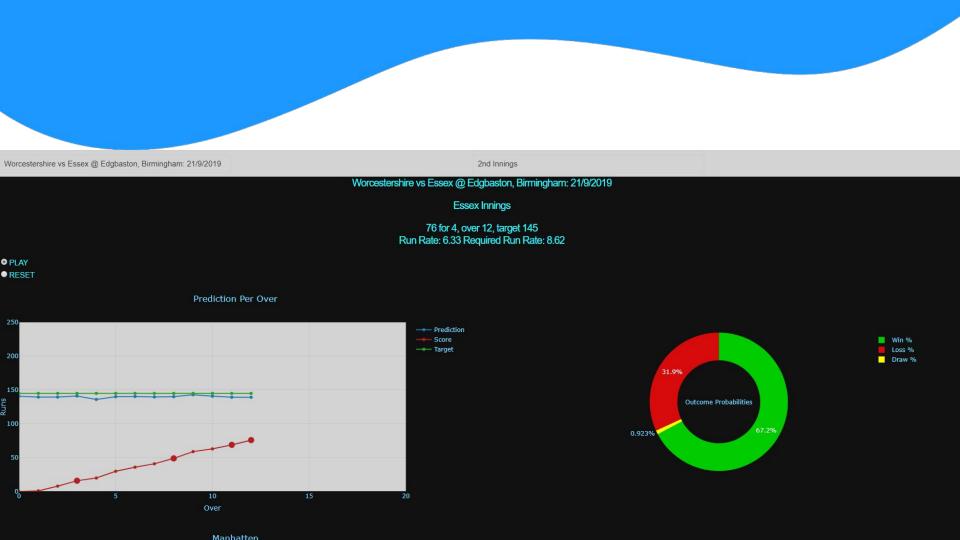
An Introduction to Dash



From the developers

"The Dash platform empowers Data Science teams to focus on the data and models, while producing and sharing enterprise-ready analytic apps that sit on top of Python and R models. What would typically require a team of back-end developers, front-end developers, and IT can all be done with Dash."

(https://plot.ly/dash/)





Hover over a node to see how many connections that character has.

Click on a node to see who they shared a scene with (appears underneath diagram).

Network of coappearances of characters in Star Wars ['Episode 5: The Empire Strikes Back'](3D visualization) Zev Senesca Wes Janson Obi-Wan Kenobi Wedge Antilles Honogal Bren Denin Lando Kalfissian Princaso Leigy Boba Fett Ing 10097 2 walker/Darth Vader Admiral Ozel Emperor Palpatine/Darth Sidious

Debut Film

Return of the Jedi

Attack of the Clone

Revenge of the Sith

The Force Awakens

Rogue One

The Last Jedi

The Rise of Skywalker



HTML

Tl;dr

- Hyper Text Markup Language
- How your browser knows where to display the information
- Most common elements (tags)
 - <div>
 - o <h1>
 - <a>>
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Building A Basic App



Code can be found at https://github.com/Alastair-Tyson/Plotly-Dash-Demo

Further Resources



- Check out Dash documentation to find other elements you can add (https://dash.plotly.com/)
- HTML cheat sheet (httml/html_intro.asp)
- Blog post this lesson is based on (https://www.atyson-datascience.com/post/building-a-dash-app)
- How to deploy a dash app online using AWS
 (https://www.atyson-datascience.com/post/deploying-your-dash-app-to-aws)

- T20 Cricket Predictor
 (http://tysondashboard-dev.eu-west-2.elasticbeanstalk.com/)
- Star Wars Character Connections
 (http://star-wars-characters-dev.eu-west-2.elasticbeanstalk.com/)
- Underground Navigator (http://underground-dev.eu-west-2.elasticbeanstalk.com/)
- Github where you can check the code for above apps (https://github.com/Alastair-Tyson)