DataVisualisation

Exploring the Decline in Bees and Flower Density in England

In this project, I will be exploring the decline in bees and flowers in England. The causes of the decline is happening for various reasons e.g. climate change. Flowers in abormal conditions are not able to bloom meaning that species like bees will not be able to pollinate causing biodiversity loss. My project will focus into the decline within the years of 2017 to 2020.

The outcome will consist of four posters consisting various ways of showing the data I've compiled. Graphs like bar charts, KDE plot, Facet plots and bubble chart were all included to show different ways of visualising the data.

File Structure

flower and bee years data.ipynb - the data showing the flowers and bees combined Flower D3JS - includes the flowers I made using D3JS *can also view here* https://observablehq.com/d/4642345204774b2e DATA VIZ PORTFOLIO.pdf - pdf of my portfolio Flower Species Data .ipynb - the data of all the flower species including the total units SEABORN EARLIER.ipynb - my earlier graphs in the project SEABORN GRAPHS.ipynb - my later graphs, closer to the final project ukpoms_1kmpantrapdata_2017-2020_flowers.csv - data for flowers from 2017 to 2020 yearsflowersbeesdata.csv - the dataset showing the flowers and bees

References

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Thomann, M., Imbert, E., Devaux, C. and Cheptou, P.O., 2013. Flowering plants under global pollinator decline. Trends in plant science, 18(7), pp.353-359.

UK Pollinator Monitoring Scheme (2022). Flower-insect timed count data from the UK Pollinator Monitoring Scheme, 2017-2020 version 2. NERC EDS Environmental Information Data Centre. (Dataset). https://doi.org/10.5285/13aed7ac-334f-4bb7-b476-4f1c3da45a13

UK Pollinator Monitoring Scheme (2022). Pan-trap survey data from the UK Pollinator Monitoring Scheme, 2017-2020 version 2. NERC EDS Environmental Information Data Centre. (Dataset). https://doi.org/10.5285/2c43ba3c-d821-442c-989b-754451d72091