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CMSC471
Assignment 4

1) The high-level task we wanted to explore was how hurricane and non-hurricane season storms relate.

   The first sub task was to look at the average wind speeds for storms inside and outside storm season. The second sub task was to look at the diameters of storms inside and outside the storm season. The third sub task was to look at the number of storms outside the season over a period of years.

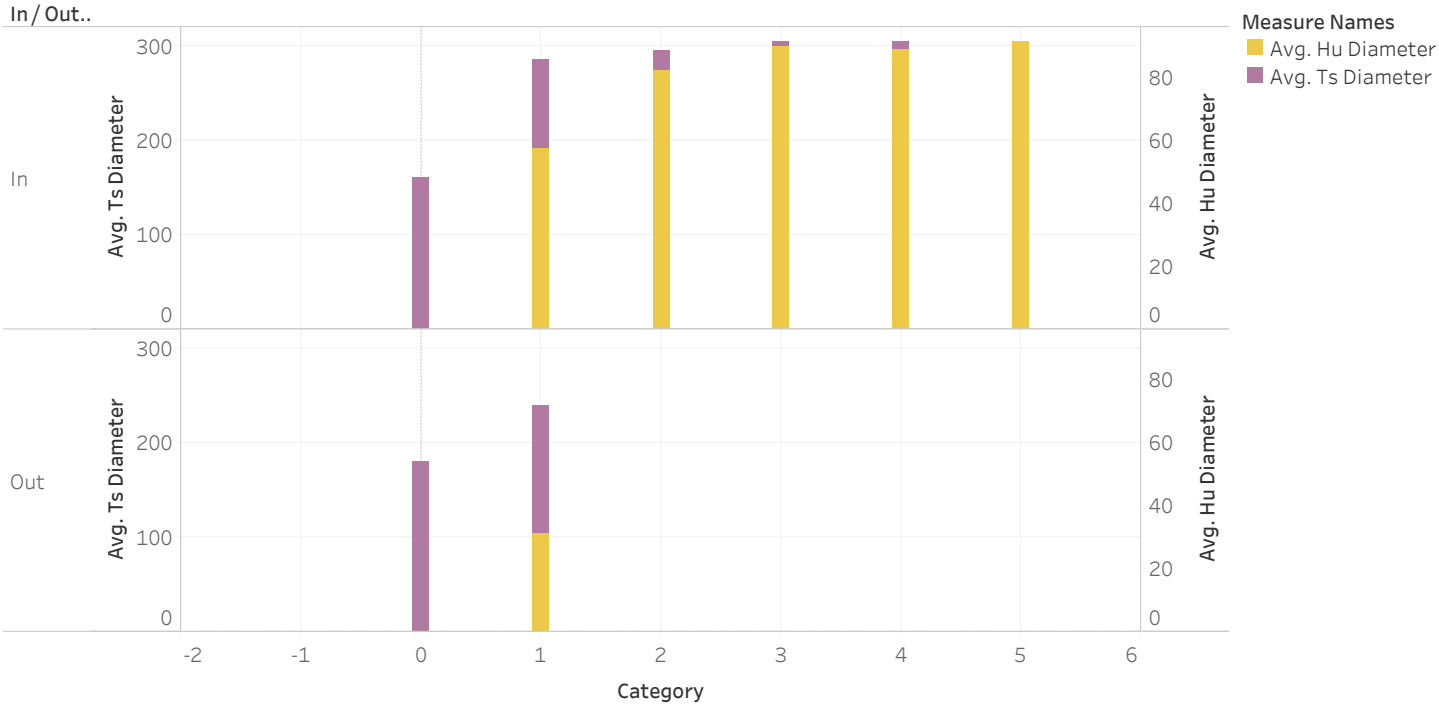
2) The first insight we came up with is that the wind speed of non-hurricane season storms tends to be lower than the average wind speeds of during the season storms. The second insight we came up with is that the average storm diameter tends to be larger for storms in hurricane season. The third insight is that the number of storms outside hurricane season is increasing.

For python 2.0+ : python -m SimpleHTTPServer 8080

For python 3.0+ : python -m http.server 8080

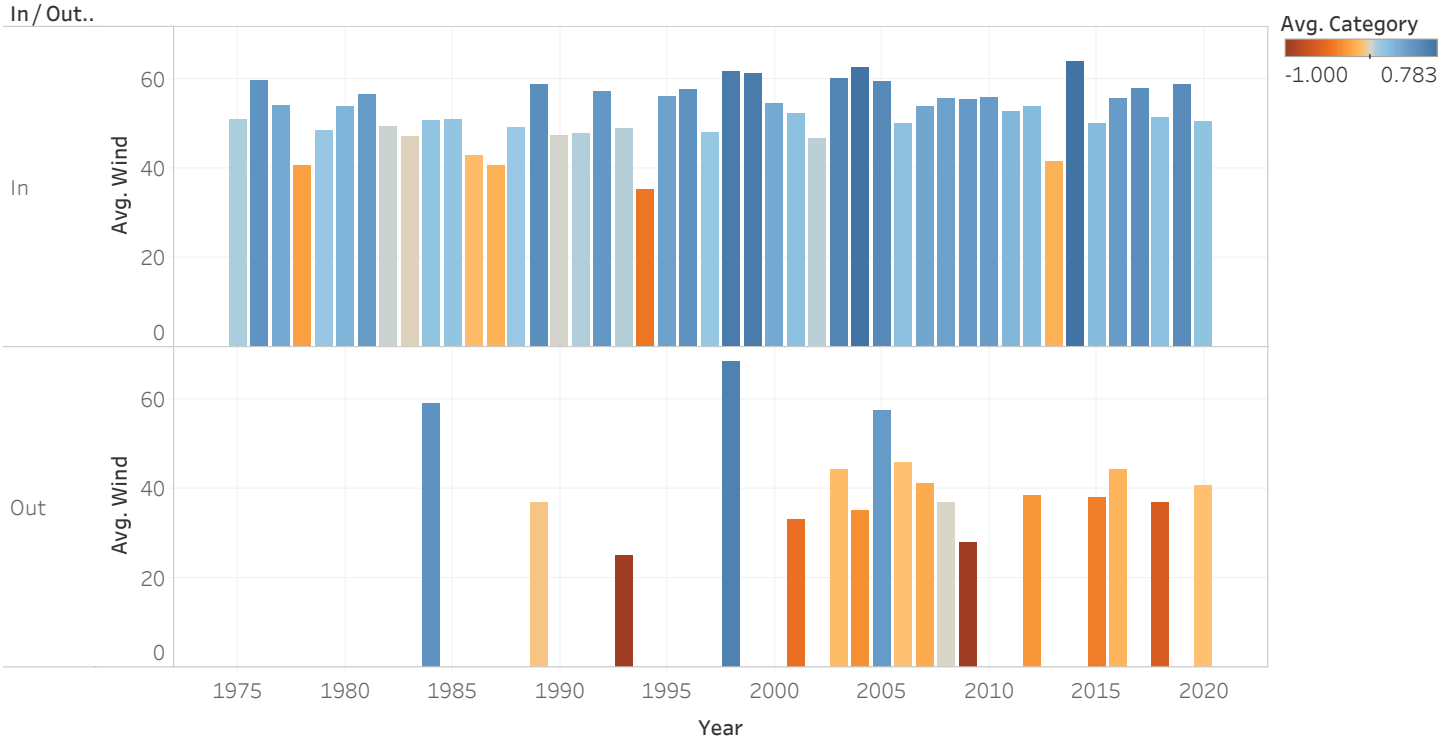
Then Open : http://localhost:8080/

Diameter



The plots of Avg. Ts Diameter and Avg. Hu Diameter for Category broken down by In / Out of Hurricane Months. Color shows details about Avg. Ts Diameter and Avg. Hu Diameter. The data is filtered on Year, which ranges from 2005 to 2020.

Wind



The plot of average of Wind for Year broken down by In / Out of Hurricane Months. Color shows average of Category.

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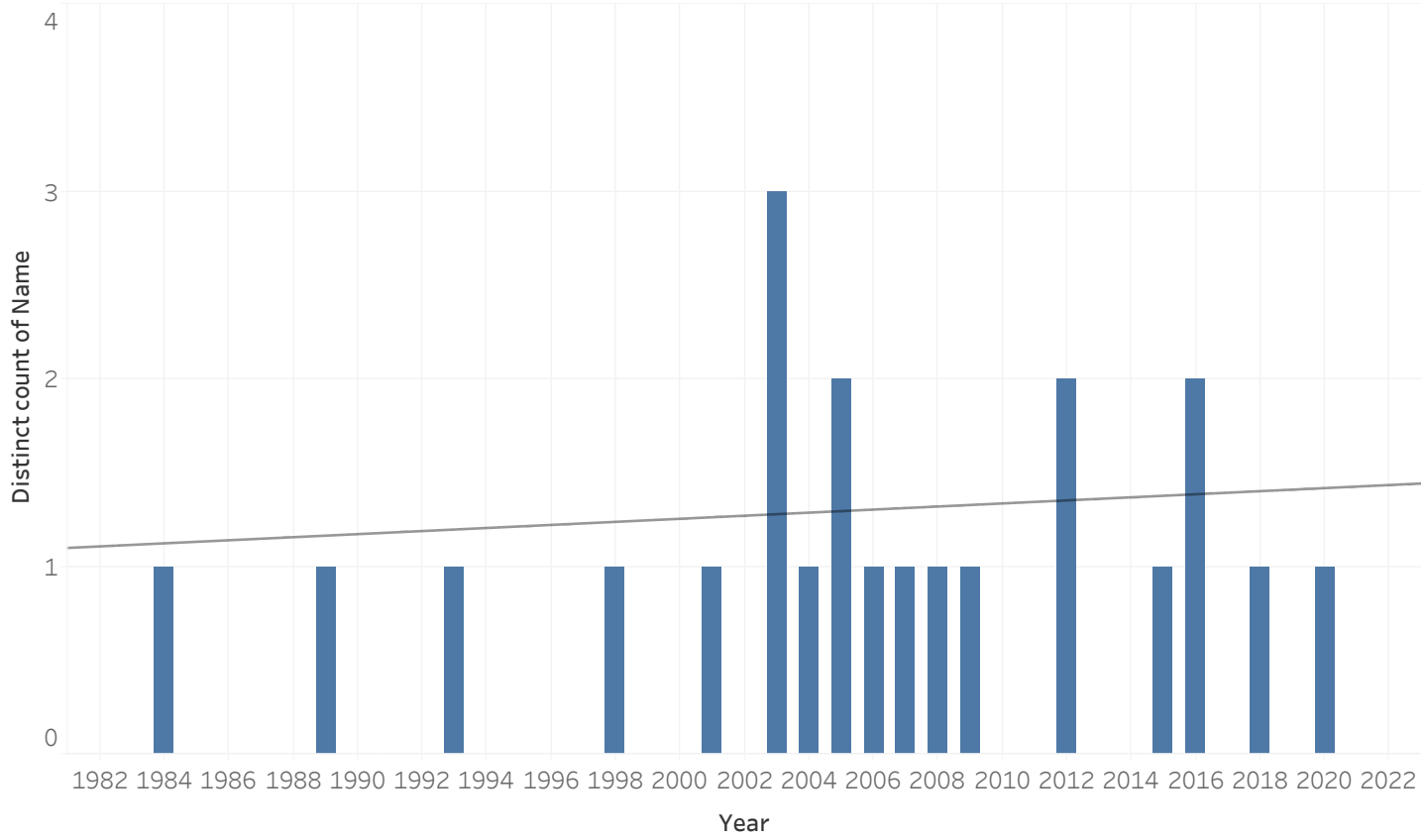

The plot of distinct count of Name for Year. The data is filtered on Non-Hurricane Months, which keeps 4 members.