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### Introduction

#### **Mission Statements:**

- To find out the relationship between different variables and first time attendees and major gift prospect attendees.
- How can we get more first time attendees to attend our events?
- How can we get more major gift prospects to attend our events?

#### **Mission Objectives:**

- Which groups of event have the most attendees?
- Does location and popularity influence the attendees of these two groups?
- Are online events more attractive than in-person events?
- What's the average age of attendees at events per location?
- Which type of activity of a event can attract more attendees?
- Is the number of attendees affected by the time of the event?



### **Overall Methods**

- Statistics: pandas.describe
- Sort values descending order str.split
- Histograms, bar charts, pie charts, clustering, hierarchical tree map, wordcloud.

#### Which groups have the most attendees?

| Group Category          | Major Prospects |   |
|-------------------------|-----------------|---|
| Social-General          | 995             | 3 |
| Athletics- General      | 814             |   |
| ProDev-General          | 388             |   |
| Stewardship- General    | 348             |   |
| Stewardship- Membership | 185             |   |

| } | <b>Group Category</b>   | First Time Attendees |
|---|-------------------------|----------------------|
| _ | Social-General          | 1557                 |
|   | Athletics- General      | 1516                 |
|   | Social-Students         | 1486                 |
|   | ProDev-General          | 1452                 |
|   | Stewardship- Membership | 232                  |



## Which type of activity of a event can attract more attendees?

**Methods: wordcloud** 

Reference: https://blog.csdn.net/weixin\_43599390/article/details/105451858



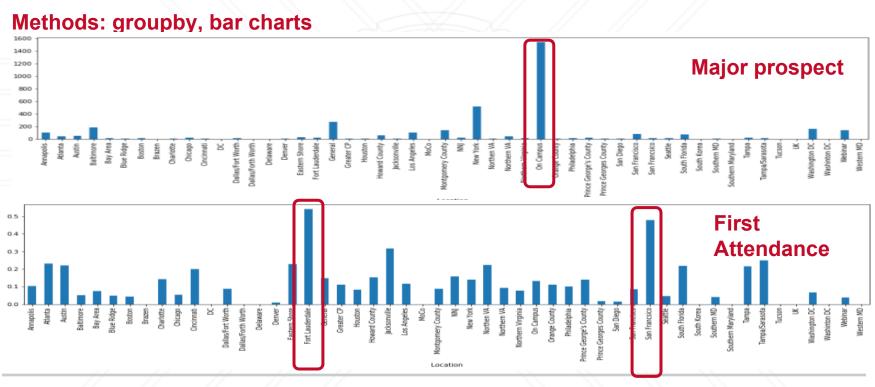




**Major prospect** 



#### The relation between location and attendance





# How can we get more first time attendees to attend our events?



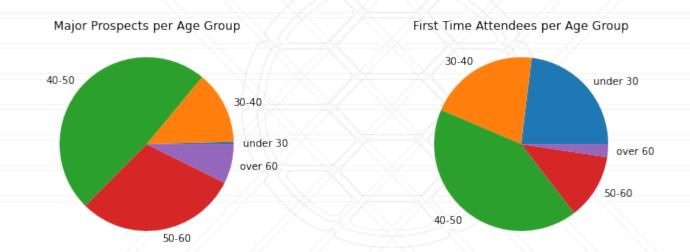


# How can we get more major gift prospects to attend our events?



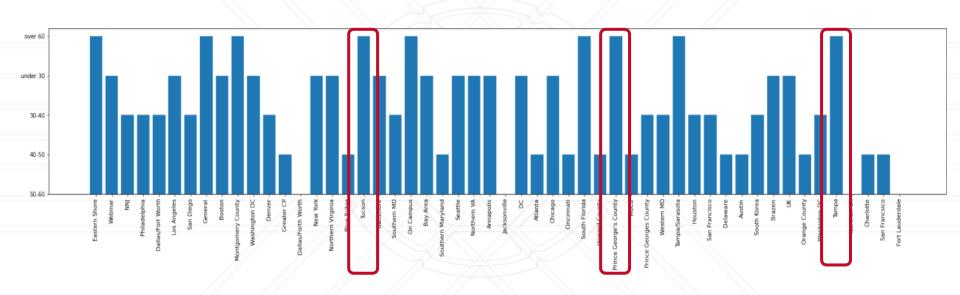
### What was the average age at these events?

Reference: https://matplotlib.org/stable/gallery/pie\_and\_polar\_charts/pie\_features.html





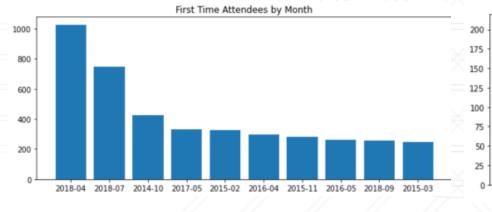
### What are the age groups at each Location?

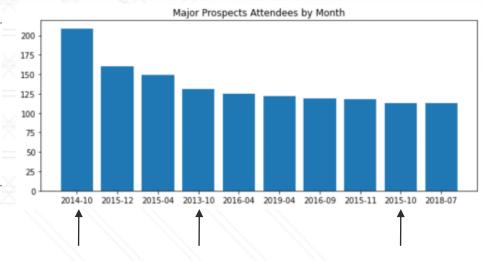




## Does the number of attendees affected by the time of the event?

Methods: groupby, bar plot







### **Findings**

- Online events and events on UMD campus are the most popular with the most participants and first time attendees
- On campus events can bring the most major gift prospects.
- Events related with Homecoming, Awards, Virtual have the most attendees.
- Both First time and Major gift prospects attendees has higher proportion in under 40-50 age group.
- Number of attendees in two groups are not highly correlated with time of a year.



### Recommendations

- Make more events in college park and online based on participants
- More events gala and award events based on participants
- Market to over 60 age group for more major prospects and to under 30 group for the first time attendees.
- To hold events at the locations that have more attendees in this age group(Tempa, Tucson, Prince George's County...)
- More social events since more people enjoy based on participants



### **Future Work**

 Market to over 60 age groups for more major prospects and to under 30 groups for the first time attendees since they take the smallest attendees proportion.

## **Thank You**



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