Zoom Meetings Survey

September 13, 2020

1 Zoom Meetings Survey

Baby Zoomers

- A survey gaining insight into the desires of those who host zoom meetings
- Career / Age data, interesting / impactful metrics, why the host wants these metrics

[6]:
```
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
%matplotlib inline

data = pd.read_csv('ZoomSurvey.csv')
```

1.0.1 Example of CSV file being used to analyze data

[9]:
```
careers = data["Career"]
ages = data["Age"]
interesting = data["Interested"]
informative = data["Informative"]
why = data["Why?"]
data.head()
```

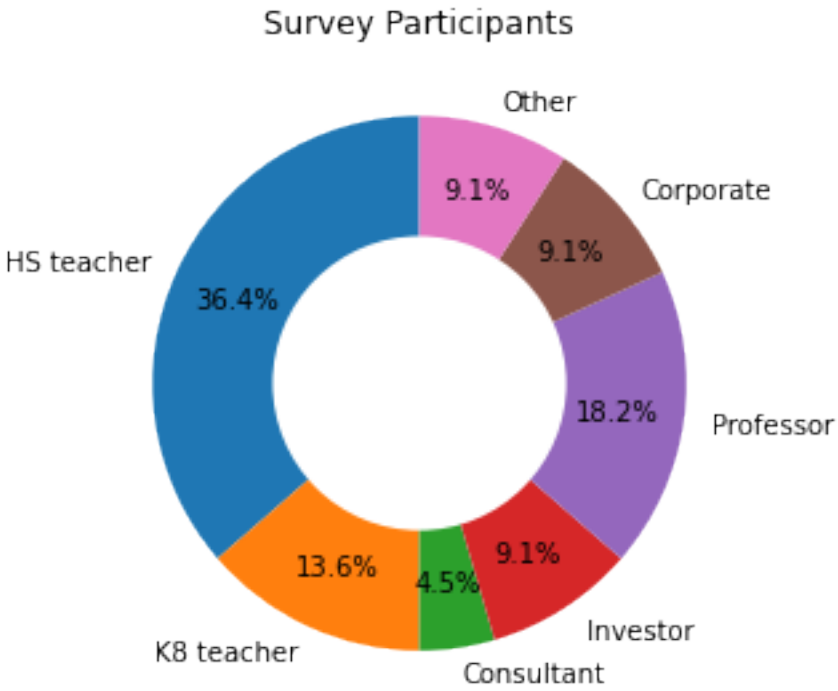
[9]:
```
         Timestamp                 Career      Age  \
0  9/12/2020 6:23    High school teacher  41 - 60
1  9/12/2020 7:35    High school teacher  41 - 60
2  9/12/2020 7:53  Middle school teacher  41 - 60
3  9/12/2020 8:13    High school teacher  41 - 60
4  9/12/2020 8:33    High school teacher  41 - 60

                                          Interested  \
0  Individual engagement (audio time elapsed), In...
1  Individual involvement (number of reactions su...
2  Individual engagement (audio time elapsed), In...
3  Individual engagement (audio time elapsed), Ov...
4  Individual participation (number of times talked)
```

```
                                          Informative  \
0  Percentage of people who talked in the meeting...
1                      Attendance and participation
2                                   % of engagement
3                                   % participating
4           % of time talked,  Efficiency with time

                                                 Why?
0  To help me ensure that I am engaging as many l...
1                   Want to increase participation
2  Adapting how I plan for future lessons and how...
3                      Informative for lesson design
4      Increase student engagement and time on task
```

1.1 Visualizing 22 survey participants

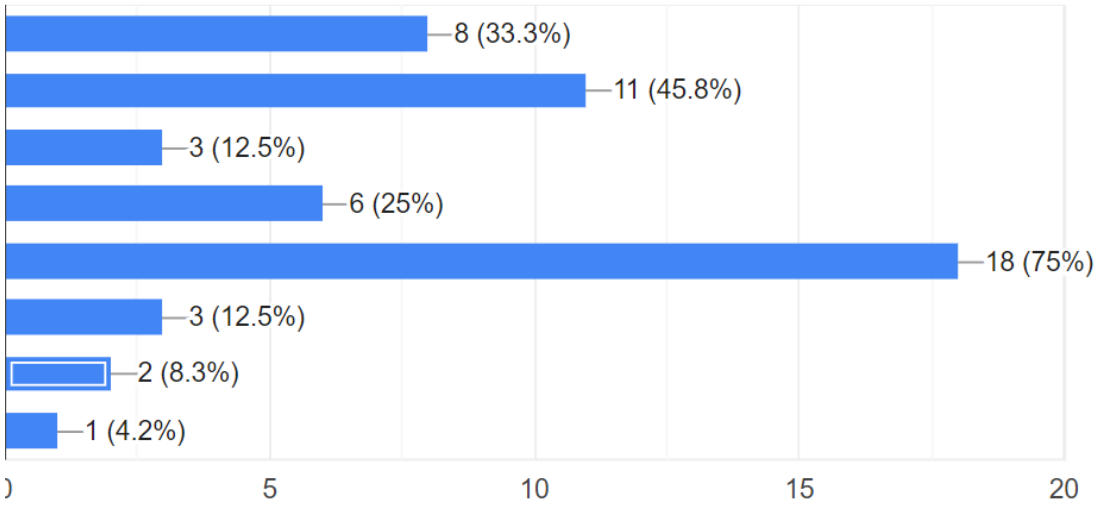
[27]:
```
n_1, n_2, n_3, n_4, n_5, n_6, n_7, j = 0, 0, 0, 0, 0, 0, 0, 0 # careers are n_k␣
 ↪for simplicity, labeled later
labels = ['HS teacher','K8 teacher','Consultant',' Investor','Professor',␣
 ↪'Corporate','Other']

while j in careers:    # counting number of each
    if careers[j] == 'High school teacher':
        n_1 += 1; j += 1
    elif careers[j] == 'Middle school teacher' or careers[j] == 'Elementary␣
 ↪school teacher' :
        n_2 += 1; j += 1
    elif careers[j] == 'Consulting or Tutoring':
        n_3 += 1; j += 1
    elif careers[j] == 'Retired investor':
        n_4 += 1; j += 1
    elif careers[j] == 'Professor at some college or university':
        n_5 += 1; j += 1
    elif careers[j] == 'Corporate':
        n_6 += 1; j += 1
    else:
        n_7 += 1; j += 1

num_careers = np.asarray([n_1, n_2, n_3, n_4, n_5, n_6, n_7])

plt.pie(num_careers, labels=labels, autopct='%1.1f%%', startangle=90,␣
 ↪pctdistance=.75, textprops={'fontsize': 10})

centre_circle = plt.Circle((0,0),.55,fc='white')
fig = plt.gcf()
fig.gca().add_artist(centre_circle)
```

```
plt.title('Survey Participants')
plt.tight_layout()
plt.show()
```



1.2 Metrics that interest zoom hosts

[30]:
```
from IPython.display import Image, display

listOfImageNames = ['Annotation 2020-09-12 220527.png']
display(Image(filename=imageName))
```



1.2.1 The main metrics were described in the presentation, but they will all be listed here, respectively.

Overall Time Watched - 33.3%

Individual engagement (audio time elapsed) - 45.8%

Overall silence (no talking from anyone) - 12.5%

Individual involvement (number of reactions such as thumbs up) - 25.0%

Individual participation (number of times talked) - 75.0%

Overall number of cameras on - 12.5%

None - 8.3%

Students who don't respond - 4.2%

1.3 Insight gained

This helped us decide which metrics to focus on and which ones to scrap based on the feedback recieved.

Ex: Number of cameras on was definitely on our agenda until we discovered a small minority actually care about that metric.

1.4 Raw data

Feel free to ignore this (or view it, if you dare. . .)

Also, this is included as it is easier to read here than in csv form, and we only summarized it in the presentation.

[20]:
```
print('List of all interested metrics:')
i, j, k = 0, 0, 0

while i in careers: # iterating to put each on a new line
    print(interesting[i]); i += 1

print('\n\nFree response question #1')
print('List of all informative metrics:')
while j in careers:
    print(informative[j]); j += 1

print('\n\nFree response question #2')
print('List of reasons for wanting metrics:')
while k in careers:
    print(why[k]); k += 1
```

```
List of all interested metrics:
Individual engagement (audio time elapsed), Individual participation (number of
times talked)
Individual involvement (number of reactions such as thumbs up), Individual
participation (number of times talked), Overall number of cameras on
Individual engagement (audio time elapsed), Individual involvement (number of
reactions such as thumbs up), Individual participation (number of times talked)
Individual engagement (audio time elapsed), Overall silence (no talking from
anyone), Individual involvement (number of reactions such as thumbs up),
Individual participation (number of times talked)
Individual participation (number of times talked)
Individual engagement (audio time elapsed)
Overall time watched, Individual participation (number of times talked)
all students on mute then when want to respond or have a question wave hand &
unmute
Overall time watched, Individual participation (number of times talked)
Overall time watched, Individual engagement (audio time elapsed), Individual
participation (number of times talked)
 Niente
Individual participation (number of times talked)
Individual engagement (audio time elapsed), Individual participation (number of
times talked), Overall number of cameras on
Overall time watched, Individual engagement (audio time elapsed), Individual
participation (number of times talked)
Overall time watched, Overall silence (no talking from anyone), Individual
involvement (number of reactions such as thumbs up), Individual participation
(number of times talked)
Individual involvement (number of reactions such as thumbs up)
Overall time watched, Individual participation (number of times talked), Overall
number of cameras on
Overall silence (no talking from anyone), Individual participation (number of
```

times talked)
Overall time watched, Individual engagement (audio time elapsed), Individual participation (number of times talked)
Individual participation (number of times talked)
Individual engagement (audio time elapsed), Individual involvement (number of reactions such as thumbs up), Individual participation (number of times talked)
Overall time watched, Individual engagement (audio time elapsed), Individual participation (number of times talked)

Free response question #1
List of all informative metrics:
Percentage of people who talked in the meeting; how many times each participant spoke.
Attendance and participation
% of engagement
% participating
% of time talked, Efficiency with time
Number of people who watched and for how long.
% of people who talked
amount who attended, stayed on & responses
% of people who talked
Percentage of students who asked questions and contributed.
Niente
The amount of times spoken in the meeting
Contribution distribution (both how many contributions were made by each person and the total time each person contributed)
Percentage of students who asked questions and contributed.
% of people who talked
Participation
Cameras on, time participated in discussion
nan
% of people who talked, % of people who watched X% of meeting
% of time talked, Efficiency with time
# of exchanges
percent of people who speak at meeting and their time speaking

Free response question #2
List of reasons for wanting metrics:
To help me ensure that I am engaging as many learners as possible while providing sufficient opportunity for all to participate actively in each lesson.
Want to increase participation
Adapting how I plan for future lessons and how I can encourage more engagement
Informative for lesson design
Increase student engagement and time on task
Adapting meeting style (maybe survey at end to see what they thought of meeting too?)

See how much interaction there is
to see how effective online learning is & discipline students have to participate in online learning
See how much interaction there is
Participation grade and overall academic engagement
I’m not
From my observation, the sane teachers speak, then other teachers don't have a chance to
Evaluating student participation, evaluating who feels most comfortable speaking
Participation grade and overall academic engagement
To improve overall engagement
Because teaching online sucks and is hard
to see how engaged students are
Optimizing meeting time, reducing meeting size and scope to allow more focus
adapting meeting style
Increase student engagement and time on task
To inform instruction of my students
adapting meeting style