ufo-exploration

October 28, 2018



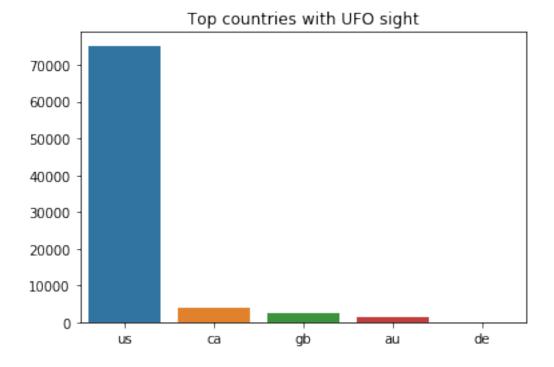
In [1]: %matplotlib inline

```
import warnings
import pandas as pd
import numpy as np
import seaborn as sns
import matplotlib.pyplot as plt
```

	a1	nead()								
Out[2]:			datetime			ci [.]	ty state	country	latitude	\
	0	1949-10-10	20:30:00		S	an marc	os tx	us	29.883056	
	1	1949-10-10	21:00:00		lac	kland a	fb tx	us	29.384210	
2		1955-10-10	17:00:00	chester	uk (uk	englan	d) NaN	gb	53.200000	
	3	1956-10-10	21:00:00			ed	na tx	us	28.978333	
	4	1960-10-10	20:00:00			kaneo	he hi	us	21.418056	
		longitude	duration	hour	day	month	year			
	0	-97.941111	2700.0	20	10	10	1949			
	1	-98.581082	7200.0	21	10	10	1949			
	2	-2.916667	20.0	17	10	10	1955			
	3	-96.645833	20.0	21	10	10	1956			
	4	-157.803611	900.0	20	10	10	1960			

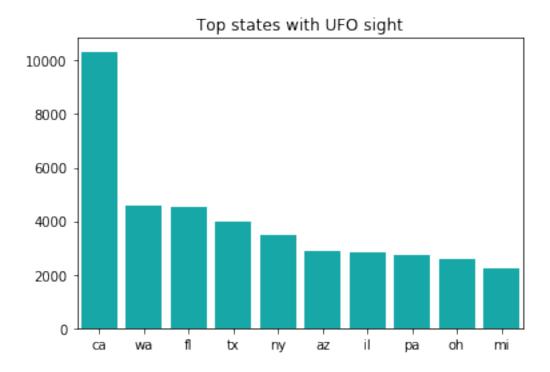
0.0.1 What areas of the country are most likely to have UFO sightings?

Out[3]: <matplotlib.text.Text at 0x10d3e26d8>

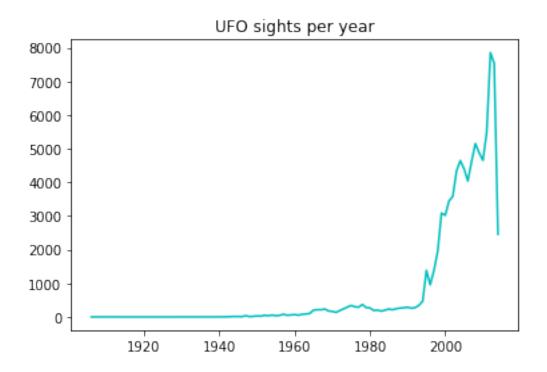


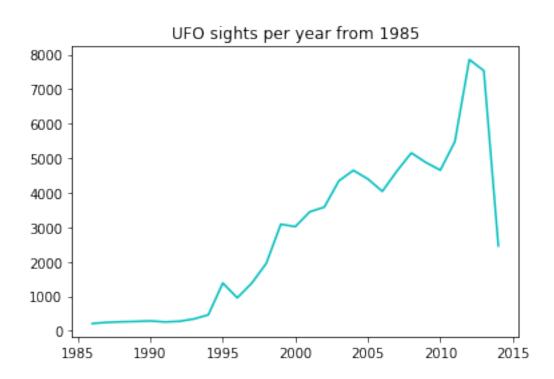
```
Out[4]:
                                                                 latitude
                                                                             longitude \
                       datetime
                                          city state country
           1949-10-10 20:30:00
                                                                29.883056
                                                                           -97.941111
        0
                                    san marcos
                                                   tx
                                                           us
                                                                           -98.581082
        1
           1949-10-10 21:00:00
                                 lackland afb
                                                                29.384210
                                                   tx
                                                           us
           1956-10-10 21:00:00
                                          edna
                                                                           -96.645833
                                                   tx
                                                                28.978333
                                                           us
           1960-10-10 20:00:00
                                       kaneohe
                                                   hi
                                                                21.418056 -157.803611
           1961-10-10 19:00:00
                                       bristol
                                                                36.595000
                                                                           -82.188889
           duration hour
                             day
                                  month
                                         year
        0
             2700.0
                              10
                                     10
                                         1949
                        20
        1
             7200.0
                                         1949
                        21
                              10
                                     10
        3
               20.0
                        21
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                                         1956
        4
               900.0
                                         1960
                        20
                              10
                                     10
        5
               300.0
                        19
                              10
                                         1961
                                     10
```

Out[5]: <matplotlib.text.Text at 0x11b55ef60>

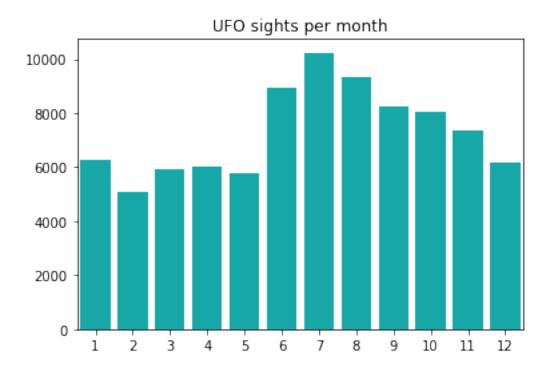


0.0.2 Are there any trends in UFO sightings over time? Do they tend to be clustered or seasonal?

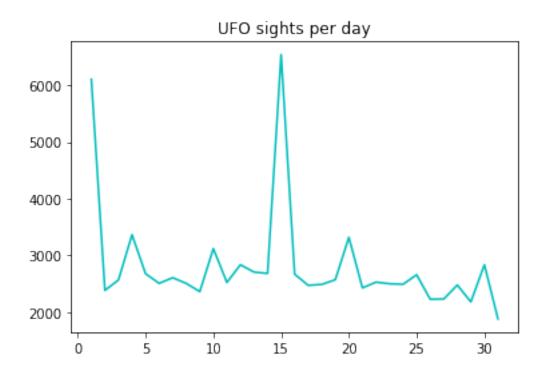




Out[8]: <matplotlib.text.Text at 0x11bcf1d68>



Out[9]: <matplotlib.text.Text at 0x11be07ef0>



Out[10]: <matplotlib.text.Text at 0x11be98fd0>

