```
In [47]:    1  import pandas as pd
            2  import matplotlib.pyplot as plt
            3  import seaborn as sns
            4  %matplotlib inline
            5  import os
            6  print(os.getcwd())
```

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```
In [48]:    1  os.chdir('C:\\Users\\spark\\Desktop\\Data Science Projects\\Squid Game Analysis')
```
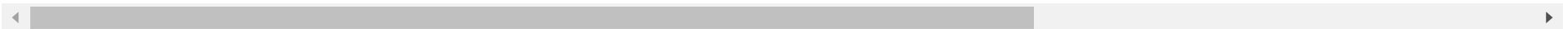
```
In [49]:    1  data = pd.read_csv('tweets_v83.csv', parse_dates= ["date"])
```

In [50]:

```
1 data
```

Out[50]:

	user_name	user_location	user_description	user_created	user_followers	user_friends	user_favourites	user_verified
0	the _??nd??r-rat??d nigg?? h????????	NaN	@ManUtd die hard???????????????????????????? \n...	2019-09-06 19:24:57+00:00	581	1035	8922	False
1	Best uncle on planet earth	NaN	NaN	2013-05-08 19:35:26+00:00	741	730	8432	False
2	marcie	NaN	animal crossing. chicken nuggets. baby yoda. s...	2009-02-21 10:31:30+00:00	562	1197	62732	False
3	YoMo.Mdp	Any pronouns	Where the heck is the karma\nI'm going on my s...	2021-02-14 13:21:22+00:00	3	277	1341	False
4	Laura Reactions	France	I talk and I make reactions videos about shows...	2018-12-19 20:38:28+00:00	330	152	2278	False
...	...	...	...	...	...	...	...	...
80014	Sale X Low	USA	Sale X Low, the cheapest low price online stor...	2021-04-03 20:49:35+00:00	12	49	7	False
80015	RevAAA	NaN	Review Anything Anyone Anywhere	2010-11-24 21:48:53+00:00	6907	0	0	False
80016	Omo K-Pop News	NaN	OMO K-Pop\nNews and Updates	2021-09-22 12:01:24+00:00	152	807	593	False
80017	???? Pumpkin??? Queen ????	Halloweentown ????	Creator of Stuff	Horror fan	Traveler	Bad...	2009-02-19 17:09:28+00:00	8048	8822	68980	False
80018	levi do lay	NaN	NaN	2020-06-17 11:55:56+00:00	16310	14368	108325	False

80019 rows × 12 columns

In [51]:

```
1 data=pd.DataFrame(data['date'], columns = ['date'])
```

```
In [52]:   1  dataforyearanalysis = data
           2  dataformonthanalysis = data
           3  datafordayanalysis = data
```

```
In [53]:   1  data.dtypes
```

```
Out[53]:   date     datetime64[ns, UTC]
           dtype: object
```

```
In [54]:   1  c= pd.to_datetime(data['date'])
```

```
In [55]:   1  datafordayanalysis.date = c.dt.day_name(locale = 'English')
```

```
In [56]:   1  dataformonthanalysis.date =  c.dt.month_name(locale = 'English')
```

```
In [57]:   1  dataforyearanalysis = c.dt.year
```

```
In [58]:   1  #currently, the days cannot be ordered so the bar graph cannot read it yet.
           2  #People talk about it before the show rather than after the show. People tweet more about it before.
           3  #weekend vs weekdays by how much
           4  #Is there ways to count the actual numbers? c And then substract to know the difference? Is there a graph that can m
           5  #to show details of difference?
           6  #I can go more about how to differentiate between weekdays and weekends by coloring. I can also do statistic
           7  #analysis as well.
```

```
In [59]:   1  data2=data
```

```
In [60]:   1  data3 = pd.read_csv('tweets_v83.csv', parse_dates= ["date"])
```

```
In [61]:   1  data3=pd.DataFrame(data3['user_created'], columns = ['user_created'])
```

In [62]:
```
1  data3
```

Out[62]:

	user_created
0	2019-09-06 19:24:57+00:00
1	2013-05-08 19:35:26+00:00
2	2009-02-21 10:31:30+00:00
3	2021-02-14 13:21:22+00:00
4	2018-12-19 20:38:28+00:00
...	...
80014	2021-04-03 20:49:35+00:00
80015	2010-11-24 21:48:53+00:00
80016	2021-09-22 12:01:24+00:00
80017	2009-02-19 17:09:28+00:00
80018	2020-06-17 11:55:56+00:00

80019 rows × 1 columns

In [63]:
```
1  c= pd.to_datetime(data3['user_created'])
```

In [64]:
```
1  #data3.user_created = c.dt.year
2  data3.user_created = c.dt.day_name(locale = 'English')
3
```

In [65]:
```
1  sorted(data3)
```

Out[65]: ['user_created']

In [66]:
```
1  data3=data3.sort_values(by = 'user_created')
```

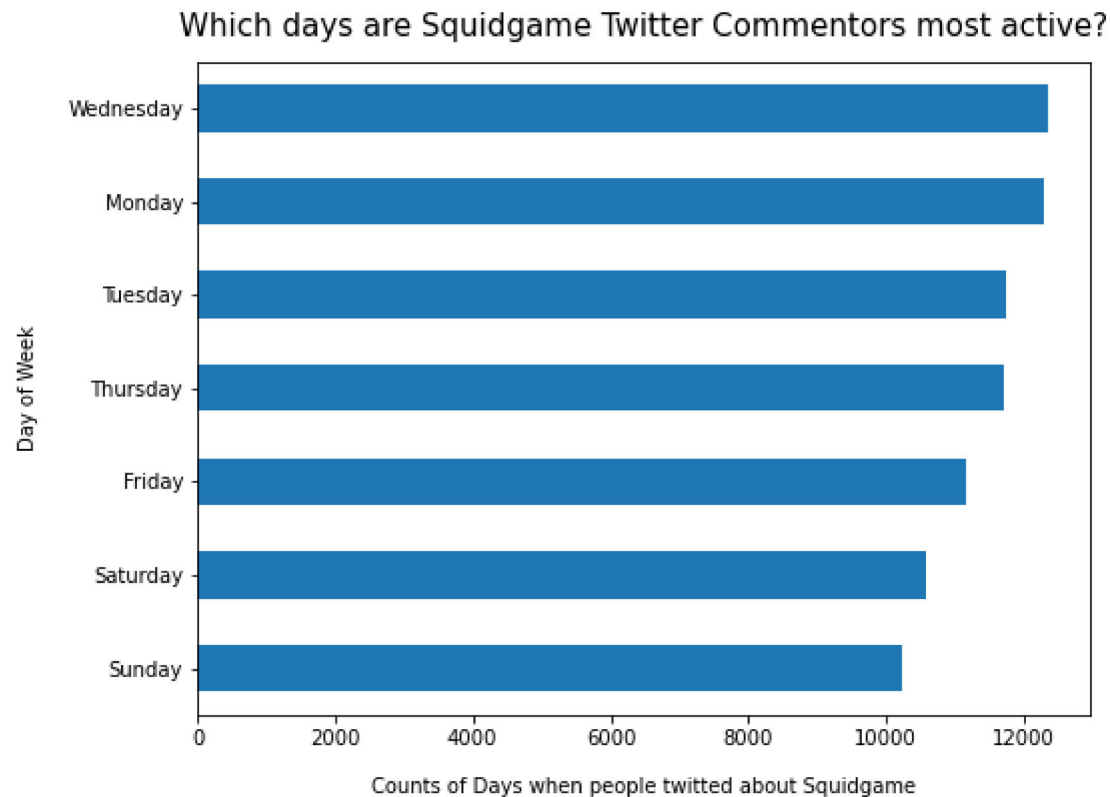In [67]:
```
1 data3.user_created
```

Out[67]:
```
0            Friday
33641        Friday
33638        Friday
33633        Friday
33608        Friday
            ...
50120     Wednesday
50111     Wednesday
50108     Wednesday
50102     Wednesday
80018     Wednesday
Name: user_created, Length: 80019, dtype: object
```

In [68]:
```
1 os.chdir('C:\\Users\\spark\\Desktop\\Indesign Print')
```

In [69]:
```python
data3['user_created'].value_counts(ascending=True).plot(kind='barh', figsize=(8, 6))
plt.xlabel("Counts of Days when people twitted about Squidgame", labelpad=14)
plt.ylabel("Day of Week", labelpad=14)
plt.title("Which days are Squidgame Twitter Commentors most active?", y=1.02, fontsize=15)
print(os.getcwd())
plt.savefig('test13.png');
```

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Which days are Squidgame Twitter Commentors most active?

In [70]:
```python
data3.user_created.value_counts()
#Average of weekday is 11847
#Average of weekend is 10391.5
#During weekdays, the Squidgame commentors tweet 14 percent more than during weekends.
```

Out[70]:
```
Wednesday    12355
Monday       12302
Tuesday      11736
Thursday     11697
Friday       11146
Saturday     10564
Sunday       10219
Name: user_created, dtype: int64
```

In [71]:
```python
#Next, we analyze about how the years
#when Twitter users signed into the platform impacts making comments.
os.chdir('C:\\Users\\spark\\Desktop\\Data Science Projects\\Squid Game Analysis')
```

In [72]:
```python
data3 = pd.read_csv('tweets_v83.csv', parse_dates= ["date"])
```

In [73]:
```python
c = data3.user_created
```

In [74]:
```python
c= pd.to_datetime(data3['user_created'])
```

In [75]:
```python
data3.user_created = c.dt.year
```

In [76]:
```python
data3=data3.sort_values(by = 'user_created', ascending=True)
```
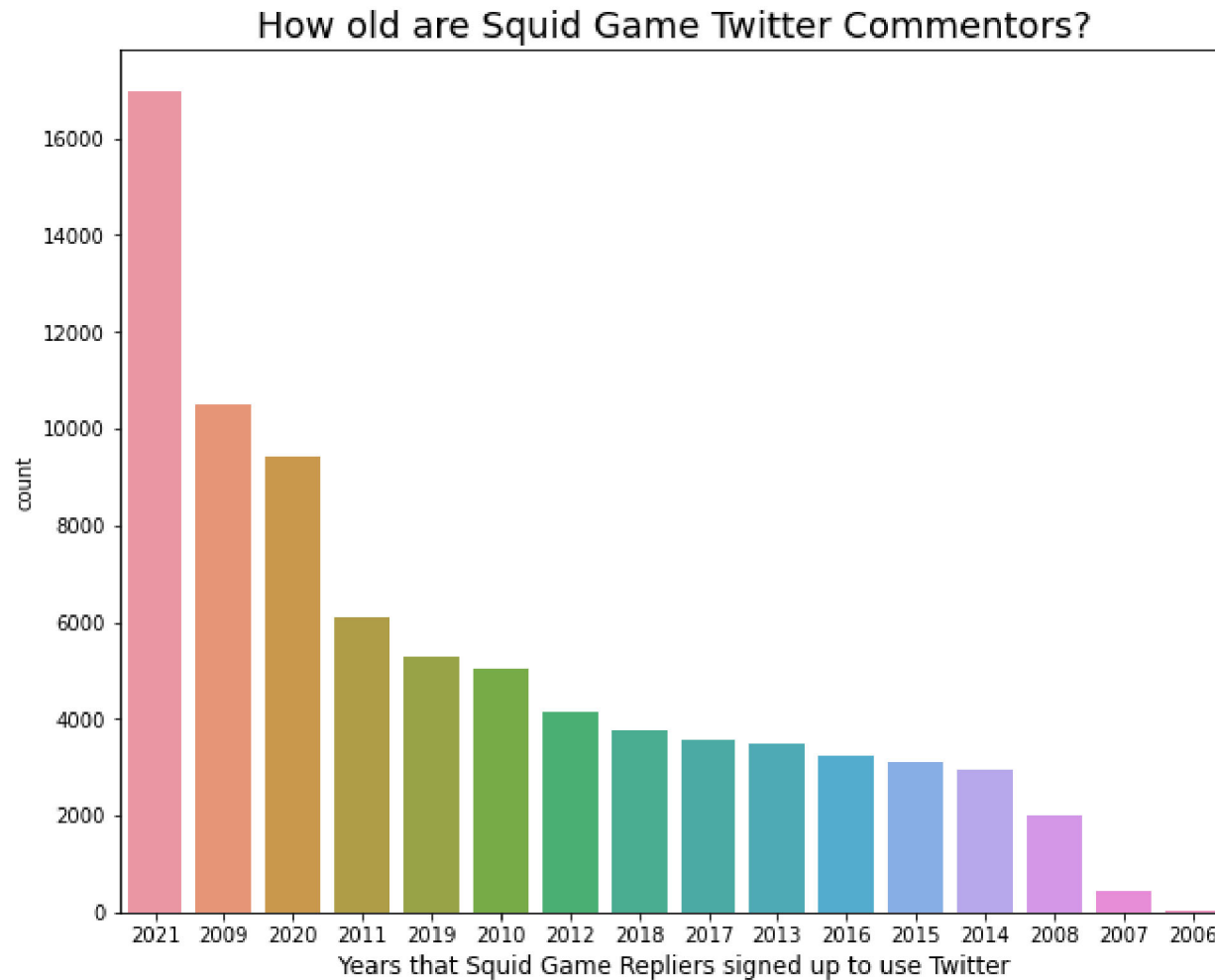
In [77]:

```
1  data3
```

Out[77]:

	user_name	user_location	user_description	user_created	user_followers	user_friends	user_favourites	user_verified	d
64342	Alison Brower	Los Angeles, CA	L.A. bureau chief @businessinsider @thisisinsi...	2006	2037	487	1875	True	2021-10 17:04:42+00
75108	Lave DaMorte	New Jersey	Definitely not a teacher or artist.	2006	1587	1491	9602	False	2021-10 13:51:12+00
19237	SHIZZY	Brooklyn, New York	I Am SHIZZY!!!! R.O.R (Rock On Records) A pers...	2006	5814	95	289	False	2021-10 14:26:11+00
48228	jason@calacanis.com	California, USA	meme dealer; investing in startups like @uber ...	2006	452961	9022	96214	True	2021-10 16:41:07+00
34978	Aaron B. Russell	Middlesbrough, England	Hi, I'm Aaron. I run @filesanctuary. I drive a...	2006	445	703	1081	False	2021-10 11:20:06+00
...	...	...	...	...	...	...	...	...	...
21159	Proxi	NaN	A theme park tycoon 2 player	2021	23	201	346	False	2021-10 08:21:33+00
48139	pavel	NaN	#CRO	2021	11	418	595	False	2021-10 16:59:29+00
21167	maybesainsburys ????	NaN	i'm back you snowflakes.	2021	5130	403	26543	False	2021-10 08:19:33+00
51643	Dhanesa	NaN	NaN	2021	111	1070	1081	False	2021-10 22:54:28+00

	user_name	user_location	user_description	user_created	user_followers	user_friends	user_favourites	user_verified	d
45396	Agence Paradise Collioure	Collioure	AGENCE PARADISE COLLIOURE INTERNATIONAL REAL E...	2021	31	364	610	False	2021-10 04:07:02+00

80019 rows × 12 columns

In [78]:
```python
1  c= pd.to_datetime(data3['user_created'])
```

In [79]:
```python
plt.figure(figsize=(10,8))
plt.title("How old are Squid Game Twitter Commentors?", fontsize = 18)
sns.countplot(x = 'user_created',
              data = data3,
              order = data3['user_created'].value_counts().index)
plt.xlabel("Years that Squid Game Repliers signed up to use Twitter", fontsize=12)
os.chdir('C:\\Users\\spark\\Desktop\\Indesign Print')
plt.savefig('test5.png',dpi=200);
```

How old are Squid Game Twitter Commentors?

Years that Squid Game Repliers signed up to use Twitter

In [80]:
```
1  ##It appears that younger generations are twitting more about Squidgame and
2  #this appears to be influenced by pandemic situation as well
```