In [37]:

```
import pandas as pd
import matplotlib.pyplot as plt
%matplotlib notebook
```

In [2]:

```
df_day = pd.read_csv('../datasets/bike_sharing/day.csv')
df_hour = pd.read_csv('../datasets/bike_sharing/hour.csv')
```

In [3]:

```
df_day.head()
```

Out[3]:

	instant	dteday	season	yr	mnth	holiday	weekday	workingday	weathersit	temp	i
0	1	2011- 01-01	1	0	1	0	6	0	2	0.344167	0.3
1	2	2011- 01-02	1	0	1	0	0	0	2	0.363478	0.3
2	3	2011- 01-03	1	0	1	0	1	1	1	0.196364	0.1
3	4	2011- 01-04	1	0	1	0	2	1	1	0.200000	0.2
4	5	2011- 01-05	1	0	1	0	3	1	1	0.226957	0.2
4											•

In [5]:

```
df_hour.sample(5)
```

Out[5]:

	instant	dteday	season	yr	mnth	hr	holiday	weekday	workingday	weathersit	temp
13102	13103	2012- 07-05	3	1	7	3	0	4	1	1	0.72
16666	16667	2012- 12-02	4	1	12	5	0	0	0	2	0.26
1914	1915	2011- 03-25	2	0	3	13	0	5	1	1	0.32
3778	3779	2011- 06-11	2	0	6	8	0	6	0	1	0.74
11977	11978	2012- 05-19	2	1	5	6	0	6	0	1	0.44
4											•

In [10]:

```
len(df_day), len(df_hour)
```

Out[10]:

(731, 17379)

In [32]:

In [29]:

```
all(df_day.cnt == df_day.casual + df_day.registered)
```

Out[29]:

True

In [34]:

```
all(df_hour.cnt == df_hour.casual + df_hour.registered)
```

Out[34]:

True

In [36]:

```
tmin = -8
tmax = 39

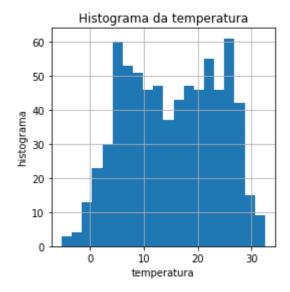
df_day['temperatura'] = df_day.temp.map(lambda t:t*(tmax-tmin)+tmin)
df_day.head()
```

Out[36]:

	instant	dteday	season	yr	mnth	holiday	weekday	workingday	weathersit	temp	ŧ
0	1	2011- 01-01	1	0	1	0	6	0	2	0.344167	0.3
1	2	2011- 01-02	1	0	1	0	0	0	2	0.363478	0.3
2	3	2011- 01-03	1	0	1	0	1	1	1	0.196364	0.1
3	4	2011- 01-04	1	0	1	0	2	1	1	0.200000	0.2
4	5	2011- 01-05	1	0	1	0	3	1	1	0.226957	0.2
4											•

In [46]:

```
plt.figure(figsize=(4,4))
plt.title('Histograma da temperatura')
plt.xlabel('temperatura')
plt.ylabel('histograma')
plt.grid()
plt.hist(df_day.temperatura,bins=20);
```



In []: