In [108]:
```
data = pd.read_csv("comptagevelo2017.csv")
```

In [110]:
```
data[:3]
```

Out[110]:

	Date	Unnamed: 1	Berri1	Boyer	Boyer 2	Brébeuf	Christophe-Colomb	CSC (Côte Sainte-Catherine)	Eco-Totem - Métro Laurier	Maisonneuve_2	...	Notre-Dame	Parc	PierDup	J
0	01/01/2017	00:00	38	35	NaN	20	NaN	60	58	38	...	10	13	9	
1	02/01/2017	00:00	109	40	0.0	43	NaN	61	66	152	...	9	52	14	
2	03/01/2017	00:00	141	24	24.0	9	NaN	14	131	216	...	32	71	17	

3 rows × 21 columns

In [5]:
```
data = pd.read_csv("comptagevelo2017.csv",parse_dates=['Date'],dayfirst=True,index_col='Date')
```

In [7]:
```
data[:3]
```

Out[7]:

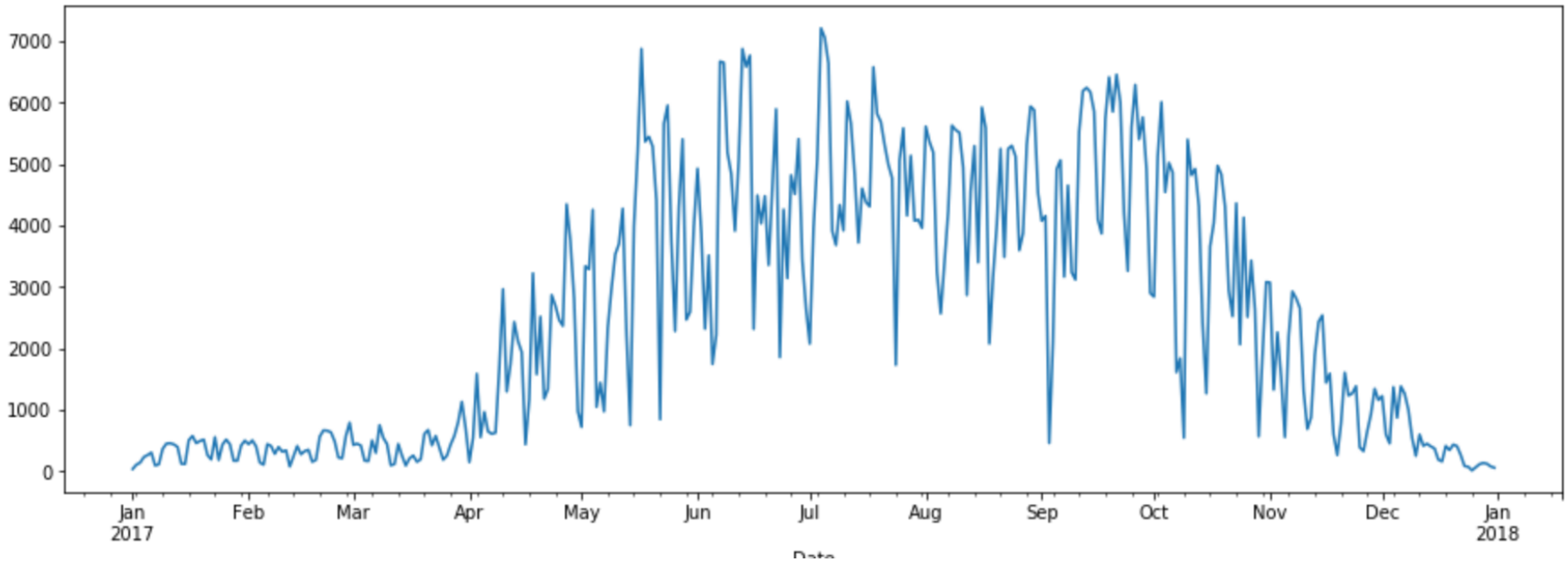
Date	Unnamed: 1	Berri1	Boyer	Boyer 2	Brébeuf	Christophe-Colomb	CSC (Côte Sainte-Catherine)	Eco-Totem - Métro Laurier	Maisonneuve_2	Maisonneuve_3	Notre-Dame	Parc	PierDu
2017-01-01	00:00	38	35	NaN	20	NaN	60	58	38	12	10	13	
2017-01-02	00:00	109	40	0.0	43	NaN	61	66	152	57	9	52	1

In [116]:
```
data['Berri1'][:10]
```

Out[116]:
```
Date
2017-01-01     38
2017-01-02    109
2017-01-03    141
2017-01-04    233
2017-01-05    265
2017-01-06    306
2017-01-07     96
2017-01-08    113
2017-01-09    362
2017-01-10    451
Name: Berri1, dtype: int64
```

In [11]:
```
data["Berri1"].plot()
```

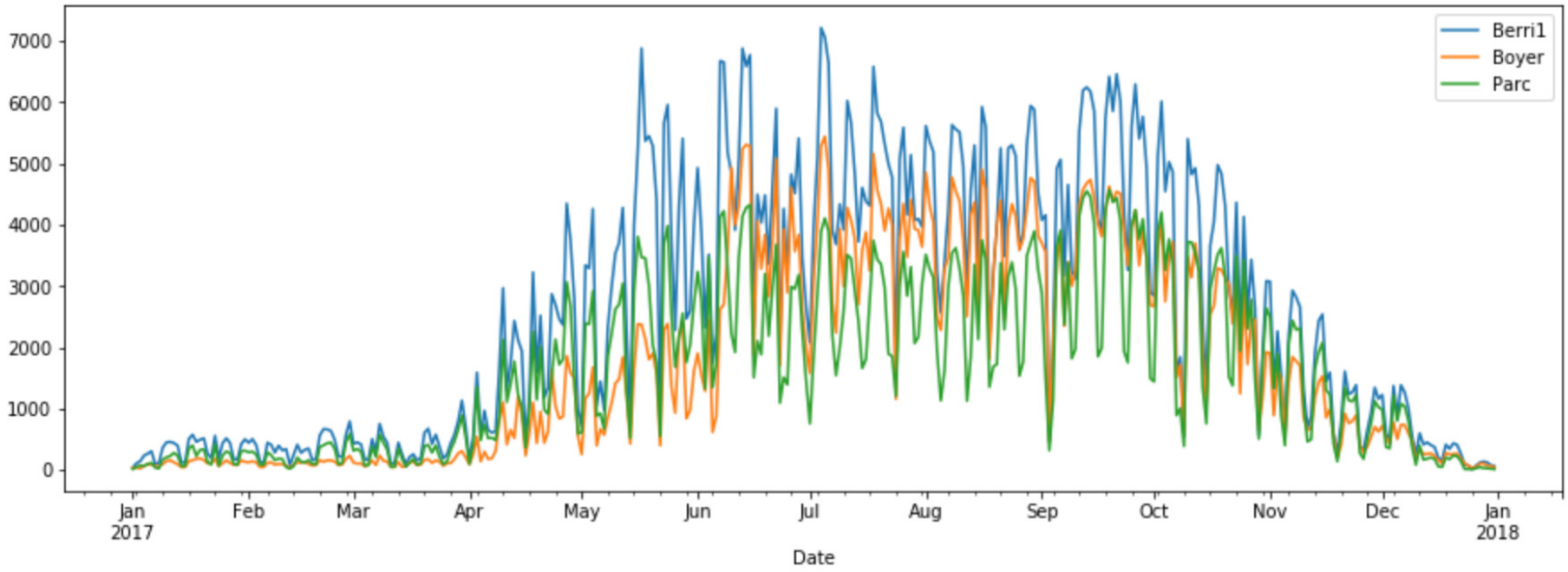
Out[11]:
```
<matplotlib.axes._subplots.AxesSubplot at 0x1101cf630>
```



In [117]:
```
plt.rcParams["figure.figsize"]=(15,5)
```

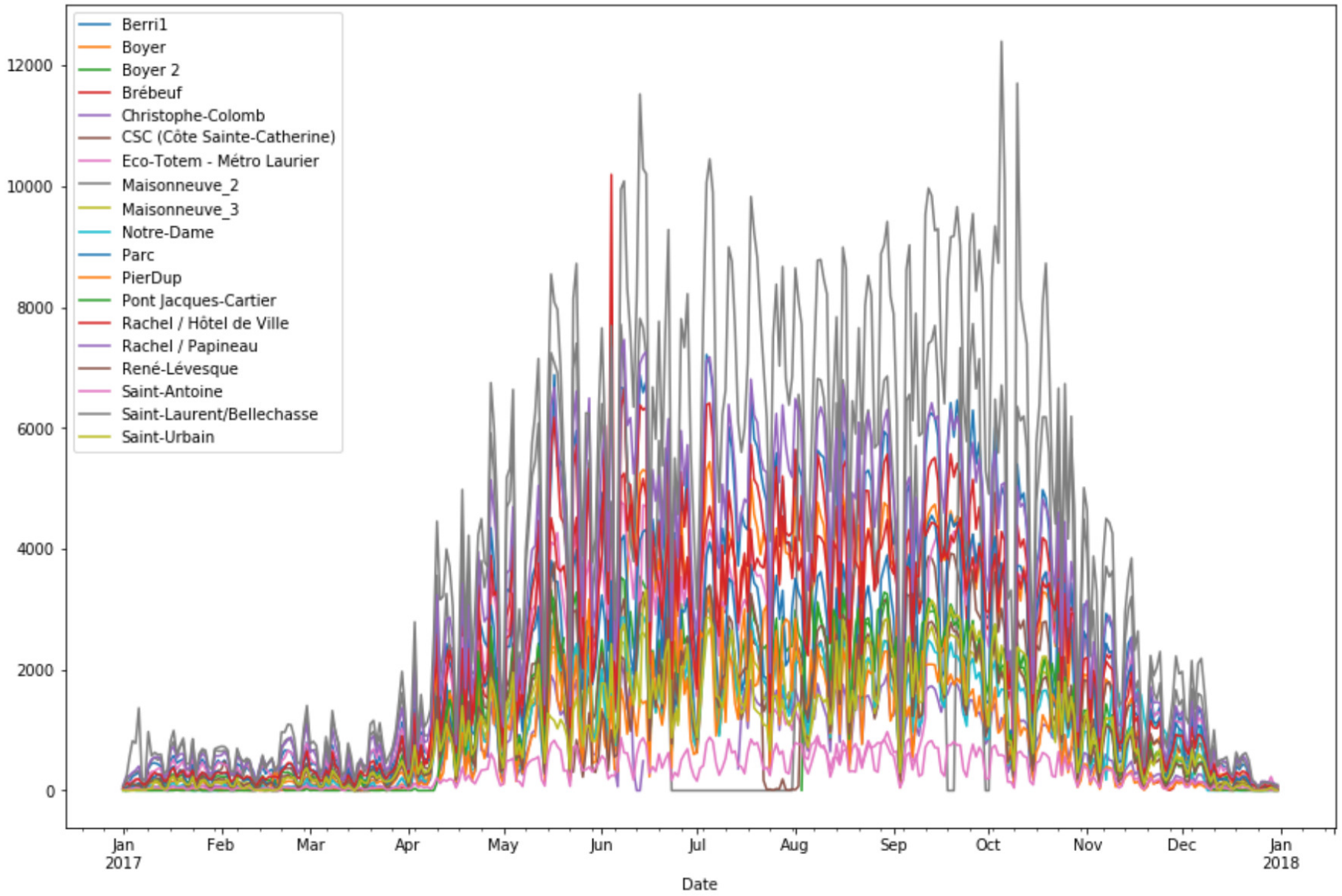
In [121]:
```
data.loc[:,["Berri1","Boyer","Parc"]].plot()
```

Out[121]:
```
<matplotlib.axes._subplots.AxesSubplot at 0x123e11c50>
```



In [13]:
```
data.plot(figsize=(15,10))
```

Out[13]:
```
<matplotlib.axes._subplots.AxesSubplot at 0x11898a978>
```



In [158]:
```
berri_bikes = data[["Berri1"]].copy()
```

In [159]:
```
berri_bikes[:5]
```

Out[159]:

Date	Berri1
2017-01-01	38
2017-01-02	109
2017-01-03	141
2017-01-04	233
2017-01-05	265

In [160]:
```
berri_bikes.index
```

Out[160]:
```
DatetimeIndex(['2017-01-01', '2017-01-02', '2017-01-03', '2017-01-04',
               '2017-01-05', '2017-01-06', '2017-01-07', '2017-01-08',
               '2017-01-09', '2017-01-10',
               ...
               '2017-12-22', '2017-12-23', '2017-12-24', '2017-12-25',
               '2017-12-26', '2017-12-27', '2017-12-28', '2017-12-29',
               '2017-12-30', '2017-12-31'],
              dtype='datetime64[ns]', name='Date', length=365, freq=None)
```

In [163]:
```
berri_bikes.index.weekday
```

Out[163]:
```
Int64Index([6, 0, 1, 2, 3, 4, 5, 6, 0, 1,
            ...
            4, 5, 6, 0, 1, 2, 3, 4, 5, 6],
           dtype='int64', name='Date', length=365)
```

In [166]:
```
berri_bikes["weekday"] = berri_bikes.index.weekday
```

In [167]:
```
berri_bikes[:5]
```

Out[167]:

Date	Berri1	weekday
2017-01-01	38	6
2017-01-02	109	0
2017-01-03	141	1
2017-01-04	233	2
2017-01-05	265	3

In [165]:
```
berri_bikes.loc[:,"weekday"]
```

Out[165]:
```
Date
2017-01-01    6
2017-01-02    0
2017-01-03    1
2017-01-04    2
2017-01-05    3
2017-01-06    4
2017-01-07    5
```

In [96]:
```
berri_bikes.loc[:,"weekday"] = berri_bikes.index.weekday
```

In [97]:
```
berri_bikes[:5]
```

Out[97]:

Date	Berri1	weekday
2017-01-01	38	6
2017-01-02	109	0
2017-01-03	141	1
2017-01-04	233	2
2017-01-05	265	3

In [171]:
```
grupos=berri_bikes.groupby("weekday")
```

In [179]:
```
grupos.groups
```

Out[179]:
```
{0: DatetimeIndex(['2017-01-02', '2017-01-09', '2017-01-16', '2017-01-23',
                   '2017-01-30', '2017-02-06', '2017-02-13', '2017-02-20',
                   '2017-02-27', '2017-03-06', '2017-03-13', '2017-03-20',
                   '2017-03-27', '2017-04-03', '2017-04-10', '2017-04-17',
                   '2017-04-24', '2017-05-01', '2017-05-08', '2017-05-15',
                   '2017-05-22', '2017-05-29', '2017-06-05', '2017-06-12',
                   '2017-06-19', '2017-06-26', '2017-07-03', '2017-07-10',
                   '2017-07-17', '2017-07-24', '2017-07-31', '2017-08-07',
                   '2017-08-14', '2017-08-21', '2017-08-28', '2017-09-04',
                   '2017-09-11', '2017-09-18', '2017-09-25', '2017-10-02',
                   '2017-10-09', '2017-10-16', '2017-10-23', '2017-10-30',
                   '2017-11-06', '2017-11-13', '2017-11-20', '2017-11-27',
                   '2017-12-04', '2017-12-11', '2017-12-18', '2017-12-25'],
                  dtype='datetime64[ns]', name='Date', freq=None),
 1: DatetimeIndex(['2017-01-03', '2017-01-10', '2017-01-17', '2017-01-24',
                   '2017-01-31', '2017-02-07', '2017-02-14', '2017-02-21',
                   '2017-02-28', '2017-03-07', '2017-03-14', '2017-03-21',
                   '2017-03-28', '2017-04-04', '2017-04-11', '2017-04-18',
                   '2017-04-25', '2017-05-02', '2017-05-09', '2017-05-16',
                   '2017-05-23', '2017-05-30', '2017-06-06', '2017-06-13',
                   '2017-06-20', '2017-06-27', '2017-07-04', '2017-07-11',
                   '2017-07-18', '2017-07-25', '2017-08-01', '2017-08-08',
```

In [180]:
```
cuentas=grupos.aggregate(sum)
```

In [181]:
```
cuentas
```

Out[181]:

weekday	Berri1
0	122291
1	153303
2	165956
3	157685
4	127579
5	102816
6	94869

In [102]:
```
cuentas.index=["Lunes","Martes","Miércoles","Jueves","Viernes","Sabado","Domingo"]
cuentas
```

Out[102]:

	Berri1
Lunes	122291
Martes	153303
Miércoles	165956
Jueves	157685
Viernes	127579
Sabado	102816
Domingo	94869

In [103]:
```
cuentas.plot(kind="bar")
```

Out[103]:
```
<matplotlib.axes._subplots.AxesSubplot at 0x123e095c0>
```