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Monthly Average Highs in Austin, TX for 2012

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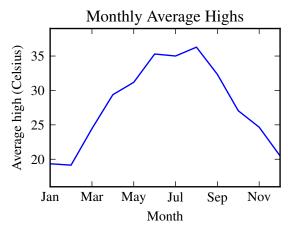
Load the data

```
f = open('../austin_tmax.csv')
pytex.add_dependencies('austin_tmax.csv')
raw_data = f.readlines()
f.close()
```

Process the data

Plot average monthly TMAX

```
from matplotlib import pyplot as plt
from matplotlib import rc
rc('text', usetex=True)
rc('font', family='serif',
   serif='Times', size=10)
f = open('ave_tmax.pkl', 'rb')
pytex.add_dependencies('ave_tmax.pkl')
ave_tmax = pickle.load(f)
f.close()
fig = plt.figure(figsize=(3,2))
plt.plot(ave_tmax)
ax = fig.add_subplot(111)
ax.set_xticks(range(0,11,2))
labels = [months\_abbr[x]]
          for x in range(0,11,2)
ax.set_xticklabels(labels)
plt.title('Monthly Average Highs')
plt.xlabel('Month')
plt.ylabel('Average high (Celsius)')
```



Final analysis

```
f = open('ave_tmax.pkl', 'rb')
pytex.add_dependencies('ave_tmax.pkl')
ave_tmax = pickle.load(f)
f.close()

tmax = max(ave_tmax)
tmax_month = months[ave_tmax.index(tmax)]
The largest monthly average high was 363 degree
```

The largest monthly average high was 36.3 degrees Celsius, in August.