In [1]:
```
%config Completer.use_jedi = False
```

In [2]:
```
# Import Libraries and Load Dataset
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
sns.set_style("whitegrid")

ASII = pd.read_csv('ASII.JK.csv', parse_dates=True, squeeze=True)
df = ASII.copy()
```

In [3]:
```
# Exploratory Data Analysis
df['Date'] = pd.to_datetime(df['Date'])
df['Year'] = df['Date'].dt.year
df['Month'] = df['Date'].dt.month_name()
newdf = df.iloc[2335:][['Year','Month','Close']]
newdf = newdf.reset_index()
newdf.rename({'Close': 'ASII'}, axis=1, inplace=True)
mydata = newdf.groupby(['Year', 'Month'])[['ASII']].mean()
result = mydata.unstack()
result = result.droplevel(0, axis=1)
result = result[['January', 'February', 'March', 'April', 'May', 'June', 'July', 'Augus
result = result.transpose()
```

In [4]:
```
result.style.highlight_min(color = 'lightgreen', axis = 0)
```

Out[4]:

Year	2010	2011	2012	2013	2014	2015	2016
Month							
January	3512.750000	4926.428571	7718.095238	7638.095238	6777.500000	7446.428571	6011.250000
February	3547.368421	5013.055556	7333.809524	7727.500000	6655.000000	7818.421053	6675.000000
March	3979.545455	5521.086957	7102.142857	7876.315789	7317.500000	8052.272727	7126.190476
April	4489.523810	5586.750000	7321.750000	7661.363636	7772.619048	7882.142857	7223.809524
May	4139.736842	5832.142857	6875.000000	7111.363636	7480.555556	7459.210526	6483.750000
June	4576.136364	5941.500000	6689.285714	6794.736842	7260.714286	6969.047619	6789.772727
July	4892.045455	6984.250000	6736.363636	6600.000000	7588.157895	6757.894737	7350.000000
August	4825.714286	6827.105263	7071.052632	6120.588235	7680.000000	6203.750000	8093.181818
September	5450.588235	6519.750000	7255.000000	6323.809524	7351.136364	5816.666667	8311.904762
October	5728.333333	6583.809524	7913.636364	6700.000000	6625.000000	6110.714286	8315.476190
November	5566.428571	6923.409091	7702.500000	6515.000000	7001.250000	6377.380952	7917.045455
December	5290.500000	7258.571429	7350.000000	6363.157895	7138.750000	6206.250000	7760.000000

In [5]:
```
# Data Visualization
```



```
f, ax = plt.subplots(figsize=(15,8))
sns.lineplot(data=result)
plt.legend(loc='lower right')
plt.title('Astra International (ASII)')
```

Out[5]: Text(0.5, 1.0, 'Astra International (ASII)')