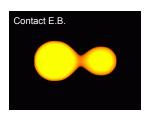
Kepler Light Curves

Sample Train Size	Sample Test Size	Number of Classes	Total Stars Observed
1,319 (≅ 70%)	515 (≅ 30%)	7	≅ 12,000

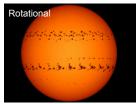
Task: Aims to predict a star's type using time-series data from its single light curve.



Recording: Data was collected by NASA's Kepler Space Telescope, with each light curve containing **4,767** samples

(no segmentation).

The dataset consists of long-cadence photometry, a measurement of a star's brightness captured at a sampling rate of 29.45 minutes per sample over a 3-month period (2.70Hz).



Classification: 7 star classes based on the its fluctuation in brightness, with the highest and lowest distributions shown below:



- Detached eclipsing binary
- Delta Scuti variable (≅ %31)
- Gamma Doradus variable
- Non variable
- Rotational variable
- RR Lyrae variable (≅ 1.9%)



