**Installation**

All code is in python and has been tested with python 2.7. We recommend downloading and installing anaconda:  
<https://www.anaconda.com/download/>

Additionally, you will need to download and install tifffile. On an anaconda installation, tifffile can be installed by running the following on the command line (Terminal):

conda install -c conda-forge tifffile

**Usage**

After this installation, all files can be run as follows:

python <python file> <image file> <results file>

where the image file is a TIFF file and the results file is a CSV file (which will be automatically created if it doesn't exist).

Running this command on different images with the same results file will append to the results file.

For example, for running Sas6\_Number\_Analysis on 1.tif, run:  
  
python Sas6\_Number\_Analysis.py 1.tif results.csv

All the python files can be run similarly.

The code will show the associated image, and will print out instructions on the command line terminal. You will be asked to click on a centrosome, and in some cases additionally mark some background boxes for normalizing intensity values.