

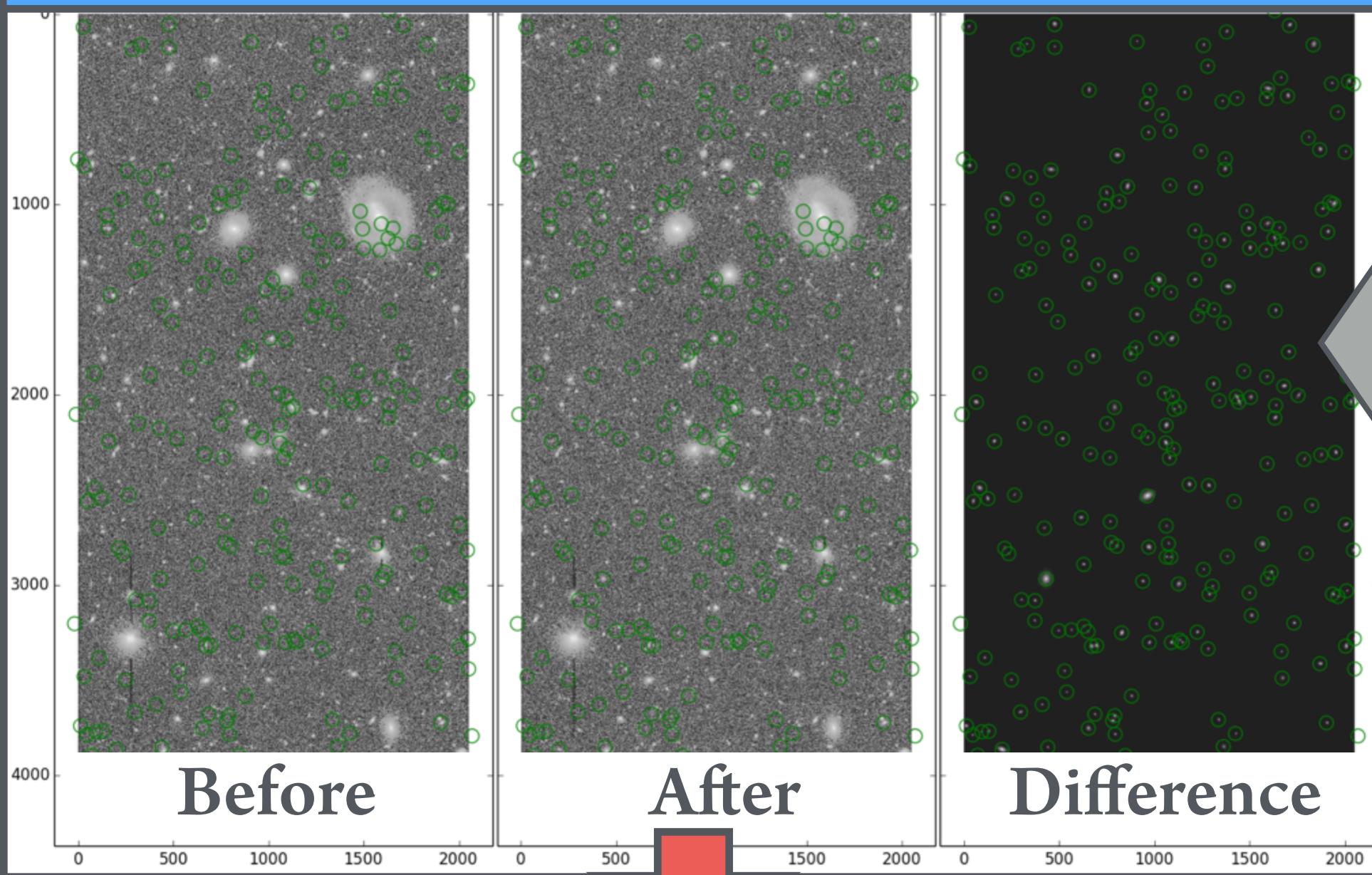
## Input Catalog

- Coordinates: **RA, Dec**
- Parameters for Synthetic Objects:
  - Star: **Magnitude**
  - Galaxy: **Magnitude, Size, Shape, et al.**

## Input Images

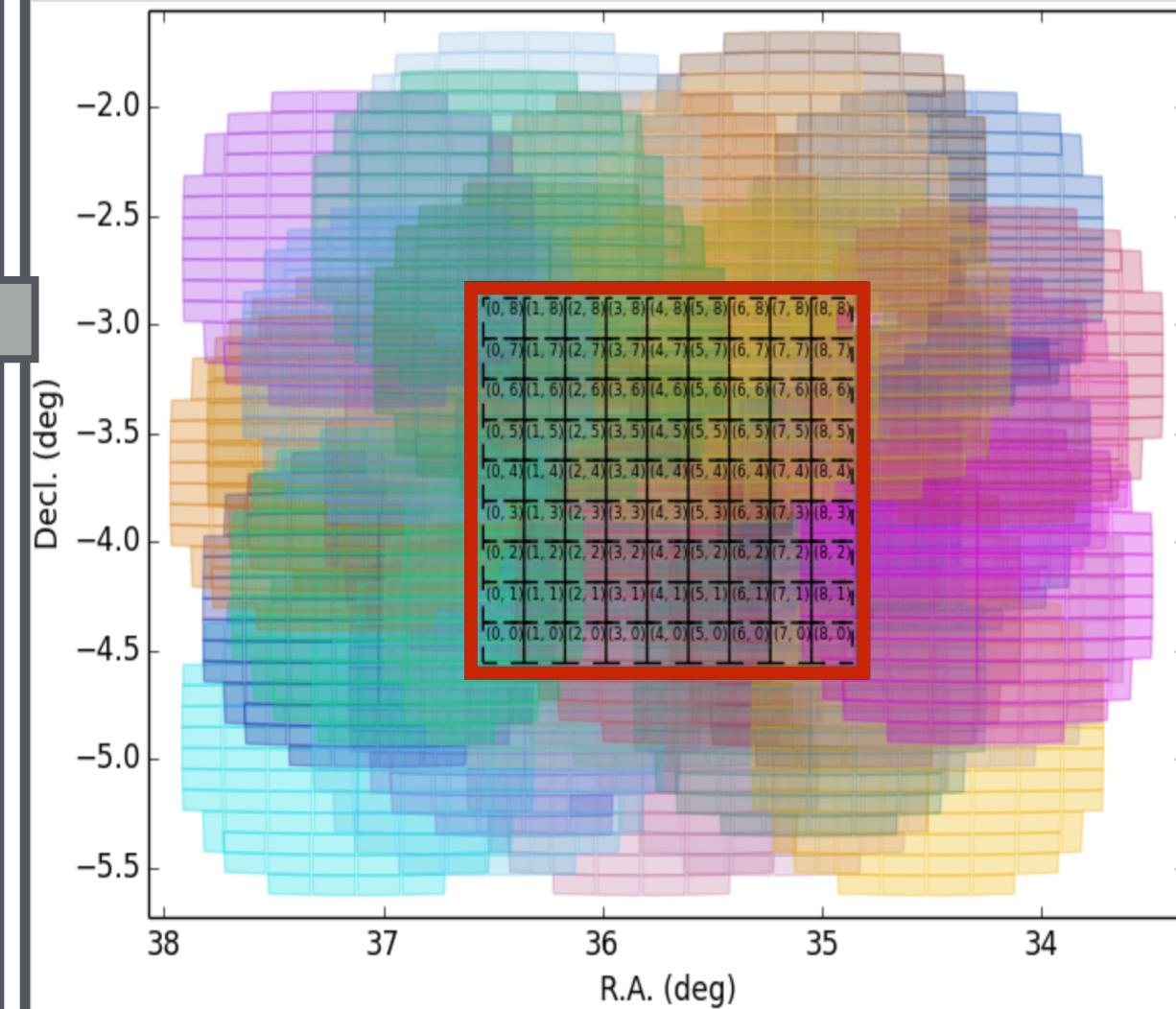
- Input Single Frame Images
- Initial Astrometric Calibration
- Models for Point Spread Function (PSF)
- Initial Photometric Calibration

### **ADDFAKES.PY:** Put Synthetic Objects on Single Visit Images

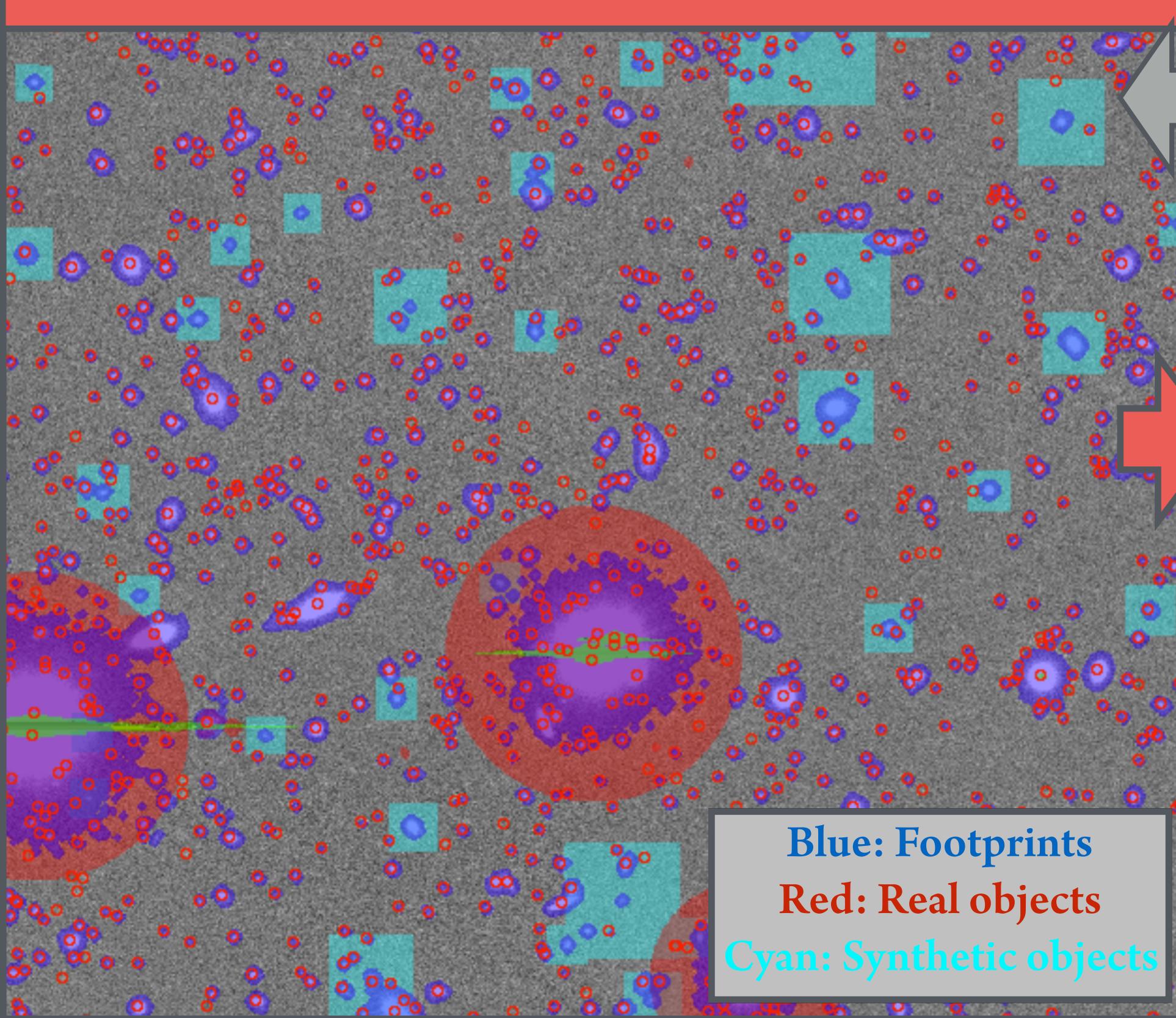


### Information about Data

- Tract; Filters; List of Visits
- [Optional] Mask for bad pixels



### **STACK.PY:** Create Coadd Images



### Information from Joint Calibration

- Improved Astrometric Calibration
- Improved Photometric Calibration

### **MULTIBAND.PY:** Multi-band Measurements

### Match to the Input Catalogs

### Output Catalogs for Synthetic Objects