Photometry Pipeline Flowchart
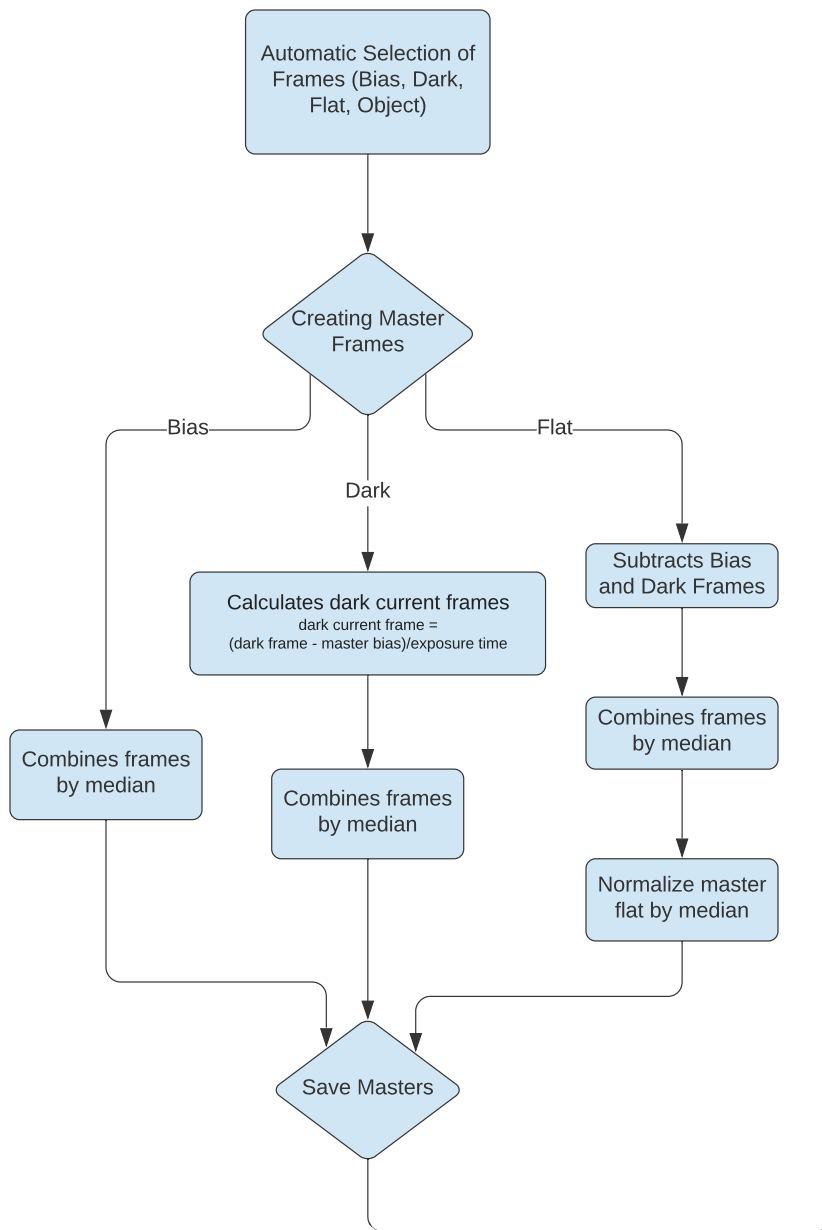
Preprocessing

Automatic Selection of Frames (Bias, Dark, Flat, Object)

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Creating Master Frames

Bias →

Dark →

Flat →

Calculates dark current frames
dark current frame =
(dark frame - master bias)/exposure time

Subtracts Bias and Dark Frames

Combines frames by median

Combines frames by median

Combines frames by median

Normalize master flat by median

Save Masters

Auto-processing

Subtracts master bias and dark current

↓

Divides by master flat

Master Sky →

Creates sigma-clipped median master sky flat

↓

Subtracts master sky

No Master Sky ↓

Subtracts median

↓

Removes cosmic rays

↓

Does quick astrometric calcuation to fix WSC coordinates

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Refines astrometry twice

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Calculates the zero point for each frame

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Calculates the flux scale based on the median zero point

↓

Stack images using flux scale

↓

Calculates the absolute zero point of Coadd