



Simulating Known Exoplanet Orbits for WFIRST CGI Imaging

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WFIRST CGI Needs Targets!

Fortunately, we know of a lot!

3,869 confirmed exoplanets!



WFIRST CGI **Needs Targets!** (Minimum) Mass (M_J) Well, maybe a few... 56 currently known exoplanets that are potentially visible to WFIRST CGI





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Just Because You Know Something is There...





Time After 1/1/2026 (days)

See: Batalha et al. (2018) "Color Classification of Extrasolar Giant Planets: Prospects and Cautions." 5

And RV Planets Have Unknown Inclinations



Angular Separation (mas)



7



8

How It's Done





+







100% of the Code and Data I've shown here is available for public use

- https://plandb.sioslab.com
- <u>https://github.com/dsavransky/plandb.sioslab.com</u>

