

## Summary



- > The Astronomer's Proposal Tool (APT) allows users to construct, validate, and submit proposals for both HST and JWST.
- Single stream (phase 1 only) approach to proposals for most cases.
- Visits are single schedulable units. You can link them so they are taken back to back, but it has to be scientifically justified.
- Proposals require careful planification: instrument modes, observability, mosaics planning, parallels etc.
  - Get APT here: <a href="http://apt.stsci.edu/">http://apt.stsci.edu/</a>
  - Help Desk: jwsthelp.stsci.edu
  - Documentation: <a href="https://jwst-docs.stsci.edu">https://jwst-docs.stsci.edu</a>
  - Target visibility tools information:

https://jwst-docs.stsci.edu/display/JPP/JWST+General+Target+Visibility+Tool+Help

https://jwst-docs.stsci.edu/display/JPP/JWST+Coronagraphic+Visibility+Tool+Help

https://www.cosmos.esa.int/web/jwst-2016-esac/home

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## Beyond the tools...



- Of course, plan the observations around your science case and goals.
- All instruments have particular aspects you should consider:
  - MSA leak in NIRSpec IFU data.
  - Mitigating contamination by adequately selecting the PA in NIRISS single object spectroscopy.
  - For background-limited observations for MIRI. For deep faint observations scheduling at low backgrounds is an additional constraint that can impact observing windows.
  - Out of field sources will affect NIRCam wide field slitless spectroscopy.
    Some sources will produce spectral streaks on the detector.
- Do you need TA?

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## Beyond the tools...



- Point vs. extended source.
- Do you need to take background data?
  - NIR instruments: Zodi
  - MIR: Zodi @ short wavelengths. From 12 microns telescope thermal emission
- What should be the dither pattern of choice? And how will it impact the result of your ETC calculations?
- How precise do you want your relative flux calibration to be? Do you need extra calibrators to refine it?
- Carefully plan mosaics

Watch the online documentation for Best Practises information.

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