

Iris v2.0

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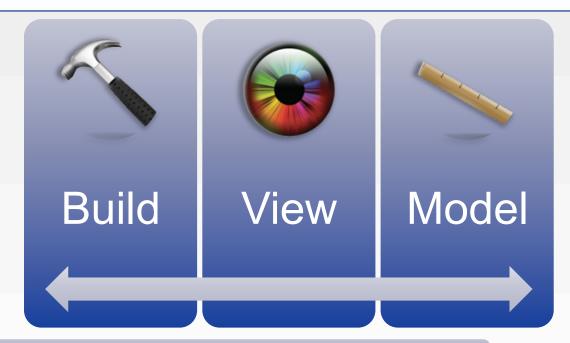




High level view

Built-in Capabilities

 Iris provides several generic capabilities for building, editing, viewing and analyzing SEDs.



Extensions

• Iris provides a high number of possible customizations and extensions, so that specific science cases can be built on top of the basic infrastructure.





New Features

Visualization improvements

Coplotting SEDs

Science features

- Interpolation, possibly with normalization and/or smoothing
- Red/Blue-shifting
- Integrating quantities (using SVO filter service)

Plugins

ASDC now shipping pre-installed in Iris





Iris features summary

SED Builder

- · Load SED Segments from File, URL
- Add/Edit/Save/Delete:
 - Photometry Points
 - Photometry Catalogs
 - Entire SEDs, Spectra
- Import non-compliant user files from many different formats
- Integrated client for NED SED service
- SAMP I/O with SED message extension

SED Viewer

- Metadata Filtering through user defined boolean expressions or interactive selection
- Display single point metadata in tree format
- Interactive Aperture Correction

Fitting Tool

- Arbitrarily combine model components in different spectral ranges
- Compute confidence intervals for best fit parameters
- Template Fitting





Meeting fluid requirements

Iris components stack

• Builds up a high-cross-section stack of tools, hiding the standards implementation layer from the science layer, in a loosely coupled extensible architecture

Science capabilities

Iris Components: Builder, Viewer, Fitting Tool, Plugins

Iris Common Framework

SED SED Service

SEDLib SSAP

Spectrum DM Utypes VOTable



Custom

Services



How to write Iris plugins (Java)

Generate
Maven Project
From Iris Plugin
Archetype

Edit Example Stub Implement 'onClick' callback

Test Plugin

Easily implementable

• Example Plugin is 100 lines worth of code.

Smart dependencies

 Dependencies not already included in Iris are automatically packaged with the Plugin.

Branding

• Plugins are completely customizable and can be branded with the Provider's logo.





Future plans

Release v2.0

- Update documentation
- Release candidate: http://cxc.cfa.harvard.edu/contrib/sed/

Maintenance

- VAO is dropping science applications development, this is the final Iris release under VAO
- Under VAO we will fix significant bugs

Post 2.0

- SAO is willing to take over, if possible
- SAO is willing to provide SED, Spectral reference implementations, but we need more mature technologies, also to save time and resources (e.g. UTYPEs/VO-DML)

Plugins are still supported!

- Assessing possible stellar SED modeling toolkit plugin
- Ongoing collaboration with ASDC for Blazar Analysis plugin

