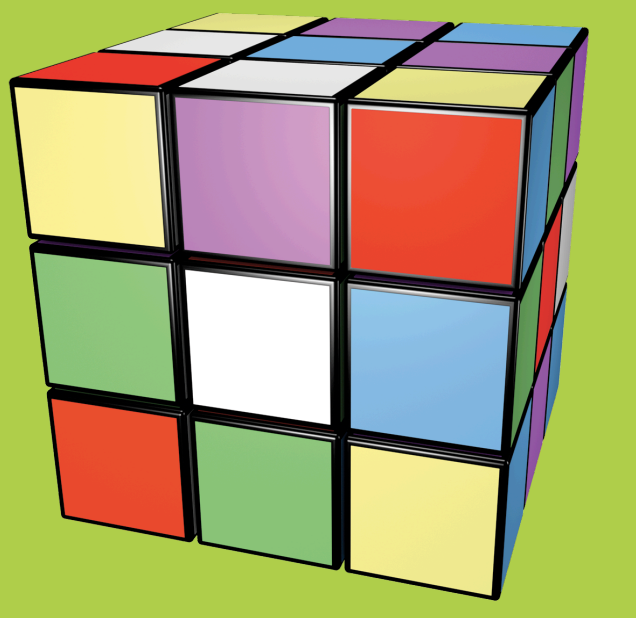




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# Providing legacy access to astronomical data analysis software

## Problem Statement

Astronomers need access to data reduction tools long after project resources for active developer support is available.

## PREPARE DURING DEVELOPMENT PHASE

- ◆ Language choice / environment choice
  - ◆ Popular environments (IDL, Python) likely to be maintained on the infrastructure level
  - ◆ Popular environments close to user expertise, less support needed
  - ◆ Stable framework language which is hardware independent (Java)
  - ◆ Trade-off with provision of test harness, strong typing, etc.. that help quality
  - ◆ Backward compatibility track record
- ◆ Avoid complexity, keep simple things simple
- ◆ Standard product definition



## REPAIR AFTER DEVELOPMENT PHASE

Provide a legacy archive with high quality end products

## FREEZE

- ◆ Bundle in a robust way
- ◆ Include all libraries
- ◆ Include auxiliary and calibration data
- ◆ Test suite
- ◆ Weed out complexity
- ◆ Virtualization



## FOSS

- ◆ Migrate the core legacy logic (pipelines, ...) to a popular environment
- ◆ Make it attractive to FOSS community
- ◆ Extendable and scalable
- ◆ Small packages, wide use
- ◆ Large user base

