Computational Astrophysics Data Analysis Center

Project
Name
Author

CADAC: Project
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Simulation Catalog: Goals

- Simple web service API
- Separate human/machine interfaces to the metadata
- Custom pages for different data collections
- Classes that can be mapped to/from VO data model
- Extensible
Simulation Catalog: Current Design

- Built on top of Django\textsuperscript{1}, a Python web framework
  - Django provide a clean separate of concerns: ORM; URL dispatch; template rendering
  - Sites are built as a collection/stack of applications
- Base application, SimCat\textsuperscript{2}, with:
  - Core SimDB-like classes
  - REST API using JSON serialization/deserialization of objects
- Custom CADAC application for generating human-readable pages

\textsuperscript{1}http://www.djangoproject.com
\textsuperscript{2}http://code.google.com/p/simcat
From SimCat to SimDB

Three Easy Step to a SimDB Service

1. Database views to match SimDB schema
2. TAP standard (a SimDB one would be good, too)
3. TAP implementation (current plan is to use the VAO DALServer Toolkit)
Apache

cadac-data
api
simdb
simcat
django

db

DALServer Toolkit