

Australian datasets and Django

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Importing data is a puzzle to solve

Motivation...

“The dataset creator hates you!”

General Principles

- Allow restarting
- Assert for all assumptions
- Use brain and eyes before computer
- Use all available tools, not just Python
 - grep
 - cut
 - head / tail
 - ...

Case study #1



Collection Data

- 75,814 items in a text file
- Creative Commons license
- Appears “mostly sane”

Worked examples...

Case study #2

Australian River Basins



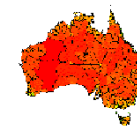
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Updated: 16 November 2009

Australia's River Basins 1997

Catalogue Number : 42343
Release Date : 8 October 2007
Senior Author : null
Product Type : GIS Dataset-Thematic
Volume/Map ID : null
Scale :
Medium : WEB
Theme(s) : GIS, boundaries, environmental, hydrology, mapping



Shows the boundaries of the Australian basins as defined by the Agriculture and Resource Management Council of Australia and New Zealand (ARMCANZ). This data shows boundary and attribute information for 12 divisions, 77 regions and 245 basins. It also contains, for each basin, information relating to its individual basin/region/division name and number. State borders are also included in the data. Data for Division XIII Distant Islands Division is not included.

These basins are the primary building block for the collection of national hydrologic data and the assessment of water resources. Data are suitable for GIS applications.

Free online download. Available in ArcView Shapefile and MapInfo mid/mif.

Product Specifications

Coverage: Australia

Currency: June 1997

Coordinates: Geographical

Datum: AGD66

Format: ArcInfo Export, ArcView Shapefile and MapInfo mid/mif

Medium: Free online and CD-ROM (fee applies)

Spatial extent : **N Lat :**9.0 **W Long :**112.0
S Lat :44.0 **E Long :**154.0

Comments : Data re-released in 2004 with minor changes.

Free Resources : [Get PDF Reader](#)
[Free Download: Australia's River Basins 1997](#)
[User Guide \[PDF 147KB\]](#)

Extended Metadata : [Australia's River Basins 1997](#)

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GIS Dataset

- Creative Commons Attribution license
- Polygons, lines, points (labels)
- Well documented
- Not entirely trivial on the surface

GeoDjango overview

Worked examples...

<http://github.com/malcolmt/pycon-au-2010>