

# Enabling Transparent Access to Geodata

## **Simple Python Geoserver API**

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# Problems

Isolated data

Incompatible formats

## **Needs:**

Centralized data storage

Convenient API to load, manipulate, store  
and push back the results

# Solution: Python-GeoServer

Shapefile (Geoserver)

GeoJSON  
(REST API)

Numpy Arrays  
(client code)



# API Description

- `get_features(server_url, layer)`
- `get_coverage(server_url, layer)`
- `put_layer(server_url, layer, data, metadata)`
  
- All methods take and receive NumPy arrays to help on numerical computations.

# Buzzwords

Python

GeoServer

GeoJSON

OGR / GDAL

OWSLib

gsconfig.py

Shapely