



▶ Allows interaction of Cloud Datastore

with real applications

▶ All wrapper libraries internally make use

stop for use with Google App Engine

▶ Initially developed as entity based NoSQL



of REST API is to facilitate different

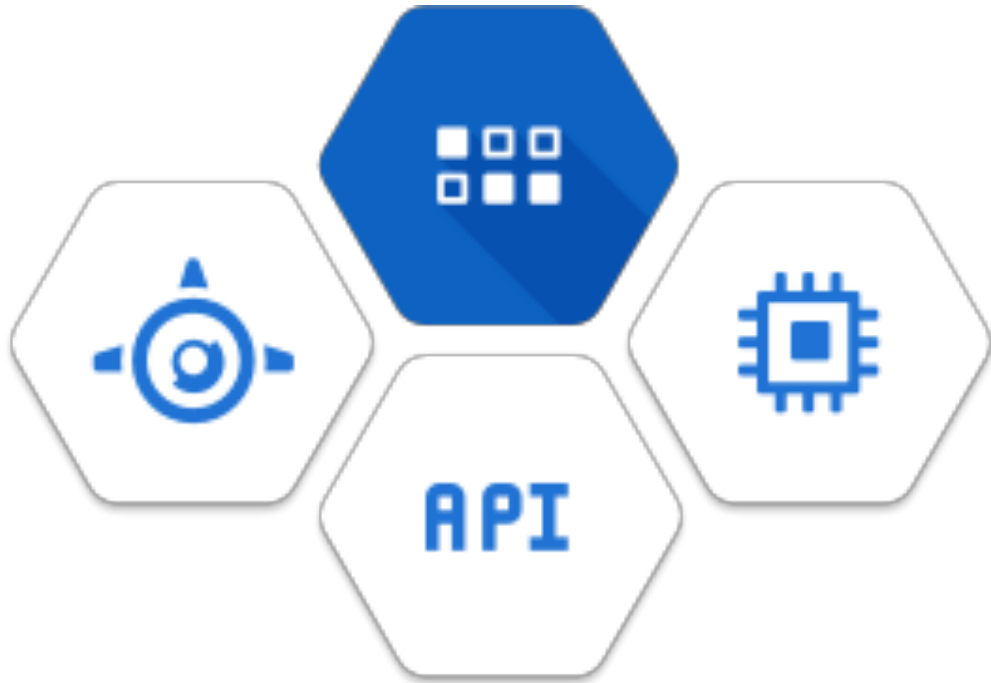
▶ PythonNDB (for appengine), SDK Client

CRUD operations



Libraries (for Python, Node.js, PHP, Ruby,

Java)



👁👁: <https://cloud.google.com/datastore/docs/reference/libraries>

Popular Library (Python NDB)



When you think "row," I think "entity." And when you think "column," I think "property." Get it?

As with traditional SQL-based databases, your GAE datastore properties are of a specific, predeclared type. There are *lots* to choose from, for instance:

- **db.StringProperty**: a string of up to 500 characters
- **db.Blob**: a byte string (binary data)
- **db.DateProperty**: a date
- **db.TimeProperty**: a time,
- **db.IntegerProperty**: a 64-bit integer
- **db.UserProperty**: a Google account

For the full list of property types supported, pop on over to <http://code.google.com/appengine/docs/python/datastore/typesandpropertyclasses.html> and take a look.

Here's some sample data from the previous chapter.

Store this data as "db.StringProperty".

This data is stored as a "db.IntegerProperty".

This data is stored as a "db.DateProperty".

id	name	dob
1	James Lee	2002-03-14
2	Sarah Sweeney	2002-06-17
3	Vera Vi	2002-12-25
4	Julie Jones	2002-08-17
5	Sally Sanchez	2002-11-24
6	Mikey McManus	2002-02-24

Excerpt from:



"Head First Python"

by Paul Barry

