

CONNECTING
APPLE'S IPHONE TO
GOOGLE'S CLOUD

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AGENDA

- Wherefore the cloud for iPhone data storage?
- Why Google App Engine?
- What does TouchEngine do, exactly?
- How Does it do that?
- What's next / roadmap

MOBILE + CLOUD

It's like chocolate and peanut
butter



MOBILE + GOOGLE'S CLOUD

- It's like chocolate and really, really good peanut butter.



<http://www.tj.la/2009/09/17/peanutbutter-overload/>

WHAT DOES APPENGINE DO AND WHY

- Generates data model files that match for both GAE and iPhone (coredata)
- Simplifies communication between GAE data models and iPhone apps using plists (GAE)
- Semi-Automatically synchronizes data model objects python and objc
- Google user login included (new feature using the open source GAE login code from github)

DEMO

Default Core Data Books



HOW DOES IT DO IT

- GoogleAppEngineAuth from cameronr on github.
- (Note, GAE will do OAuth but it's beta)

<http://github.com/cameronr/GoogleAppEngineAuth>

MOGENERATOR

- What is it for?
- How it works (MiscMerge)
- What the templates look like
- What the data model looks like
 - Special GAE_ and gae_ attributes and why

HOW TO INSERT TOUCHENGINE INTO APPENGINE

Demo

TECHNOLOGIES



Current



Soon



GOOGLE APP ENGINE: CORE DATA BOOKS

Adding a book

[Add Book](#) [Library](#) [Logout:test@example.com](#)

All form fields are required.

Title

Author

Copyright

Book Shelf Updated: Title: High Society, Author: Ben Elton, Copyright: 2002

Live Site - also JQuery Code

GOOGLE APP ENGINE: CORE DATA BOOKS

View Library

Library Add Book Logout:test@example.com

Show 10 entries Search:

Library Complete Book Collection

Title	Author	Copyright
High Society	Ben Elton	2002

Showing 1 to 1 of 1 entries

PLIST GENERATION

- Why PList?
- plistlib
- introspection
- Registering objects

HOW WE USE THE PLISTS ON THE IPHONE

- GAEModelSync + bookModelSync
- Show how the app goes from login to downloading the appropriate plists and then goes about.
- Segue into what's next by mentioning that one-way sync could be much more automated.

ROADMAP



[http://www.flickr.com/photos/solaluminacaptura/
54667385/sizes/z/](http://www.flickr.com/photos/solaluminacaptura/54667385/sizes/z/)

WHAT'S NEXT

- Automate the one-way sync translation between strings in plist and dates and gae_ stuff that we're currently doing manually
- Two-way real-time communications
- Two-way sync offline
- Integrate Ads w/ iAd and mobclix

QUESTIONS



Noah's frickin' picture