

cube2py

The IDE that looks like a wiki

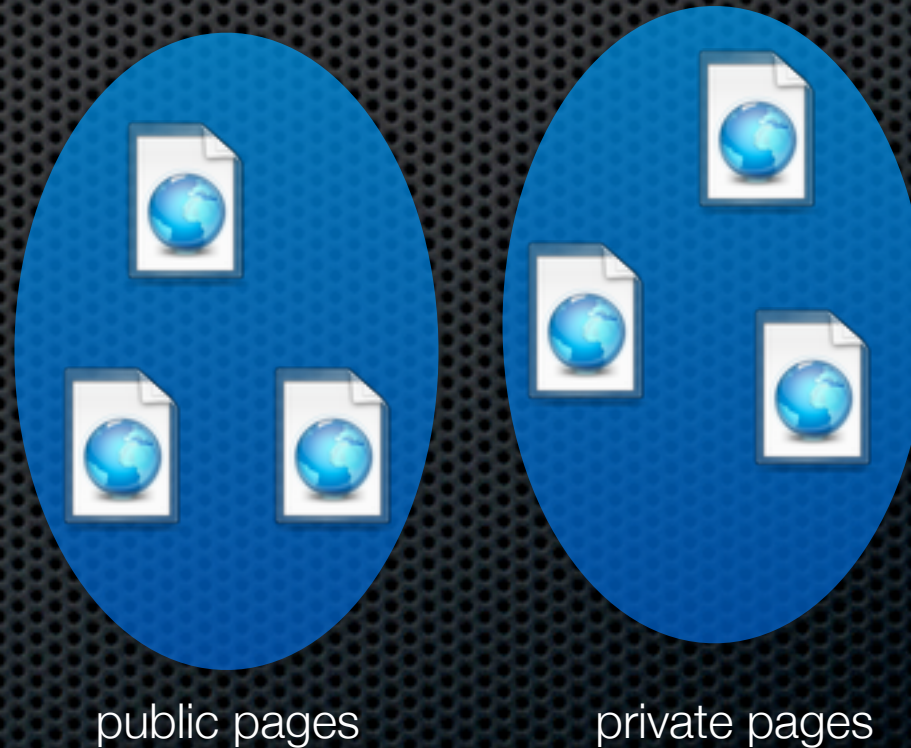
To build web apps using wiki syntax (no coding)

Runs anywhere (including GAE)

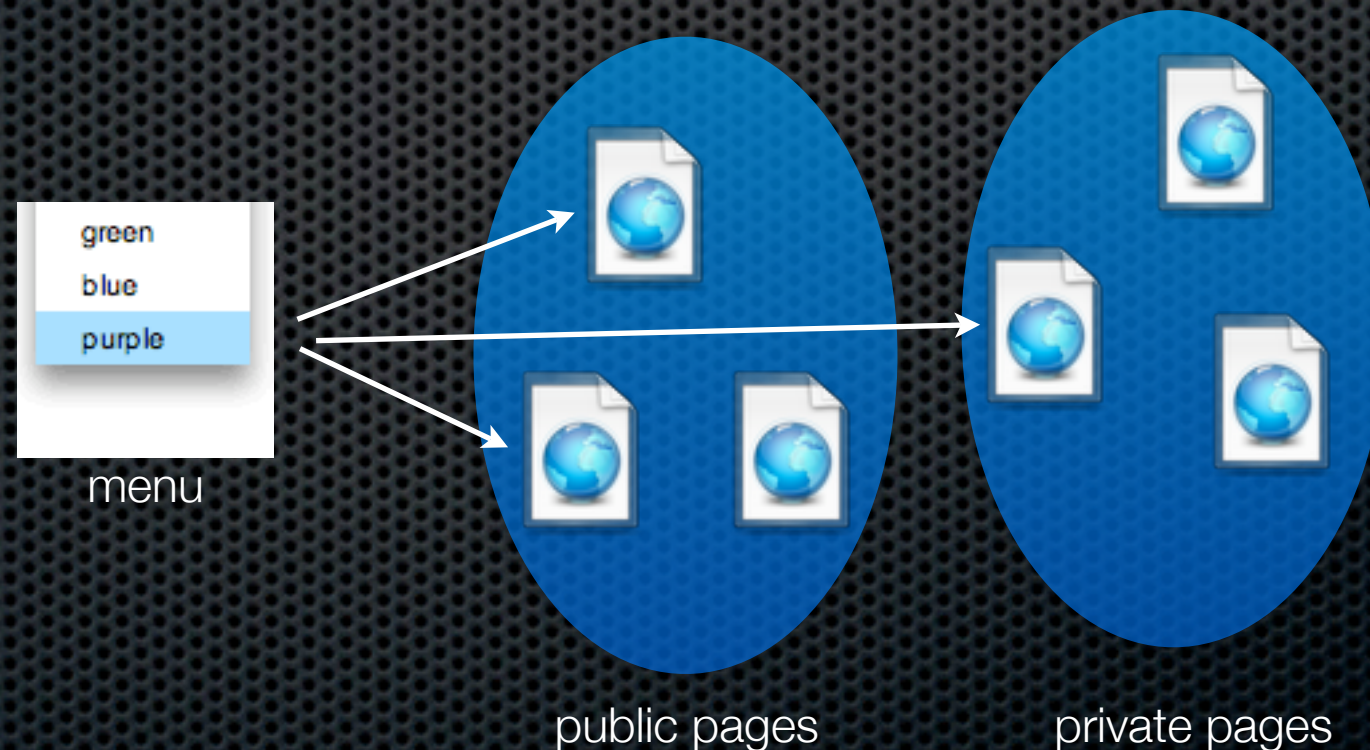
- Any web app is a collection of pages



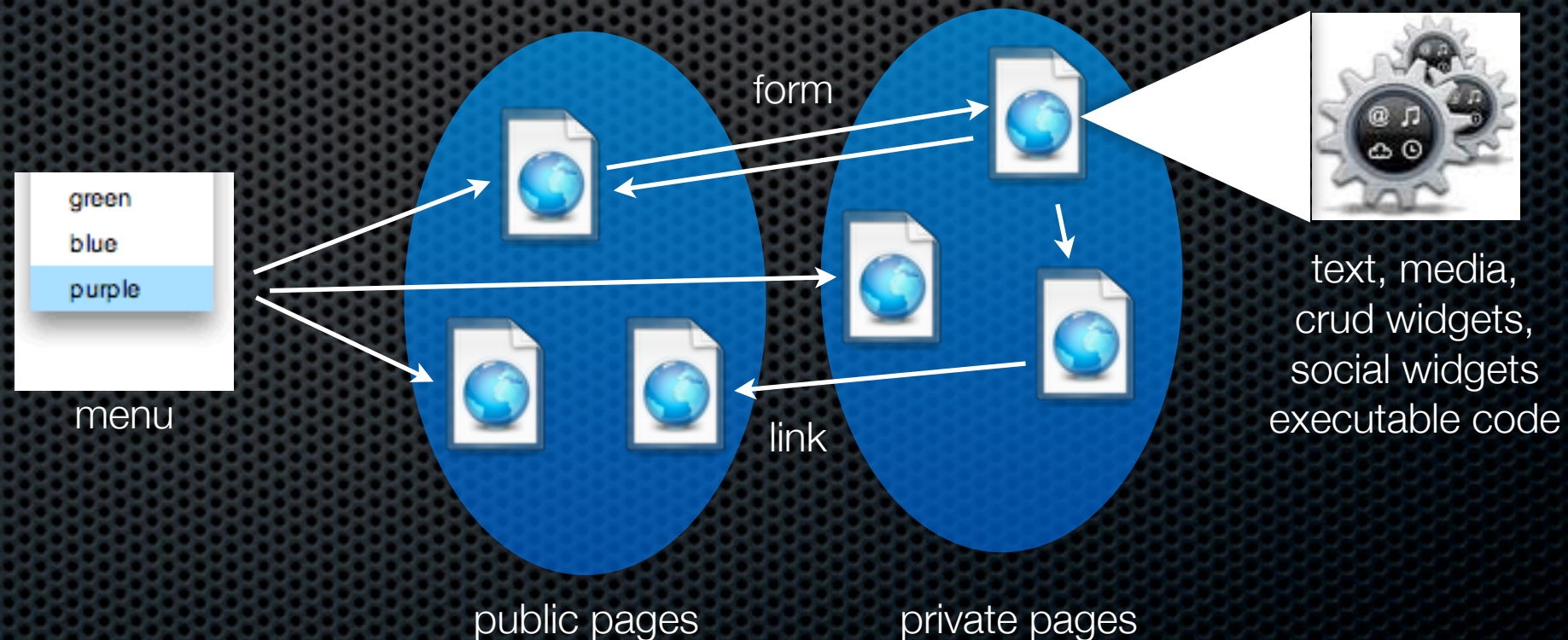
- ✦ Any web app is a collection of pages
- ✦ Pages have permissions



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- ✦ Pages can be listed in the menu



- Any web app is a collection of pages
- Pages have permissions
- Pages can be listed in the menu
- Pages contain text, links, forms and widgets



The idea

- ✦ Create a web development environment that works like a wiki (add page, edit page, delete page, revisions)
- ✦ Create a wiki syntax that allows markup of text, specify classes for elements and embed widgets
- ✦ Widgets can be Create-Read-Update-Delete forms, jQuery plugins, Media players, and/or arbitrary code
- ✦ The entire app is stored in a DataBase (not just data)

Looks like a wiki, smells like one too

http://.../page/home

list all pages

page slug

set permissions

The screenshot shows a web interface for editing a wiki page. At the top, there is a navigation bar with two tabs: 'Index' and 'Pages'. The 'Pages' tab is currently selected, highlighted with a green bar. Below the navigation bar, there is a form for editing the page. The form includes fields for 'page: home' and 'title: Home'. To the right of these fields are checkboxes for 'active: ☒' and 'public: ☒, followed by a link '[Attachments]'. Below the form fields is a rich text editor toolbar with options for heading (H1-H6), bold (B), italic (I), bulleted list, numbered list, link, and unlink. The main editing area is a light green box containing the text: '# Example' and 'This is the content of the page.'.

edit current pages

Example: text in pages

```
# section
## sub section
### sub sub section
```

Paragraph

bold text

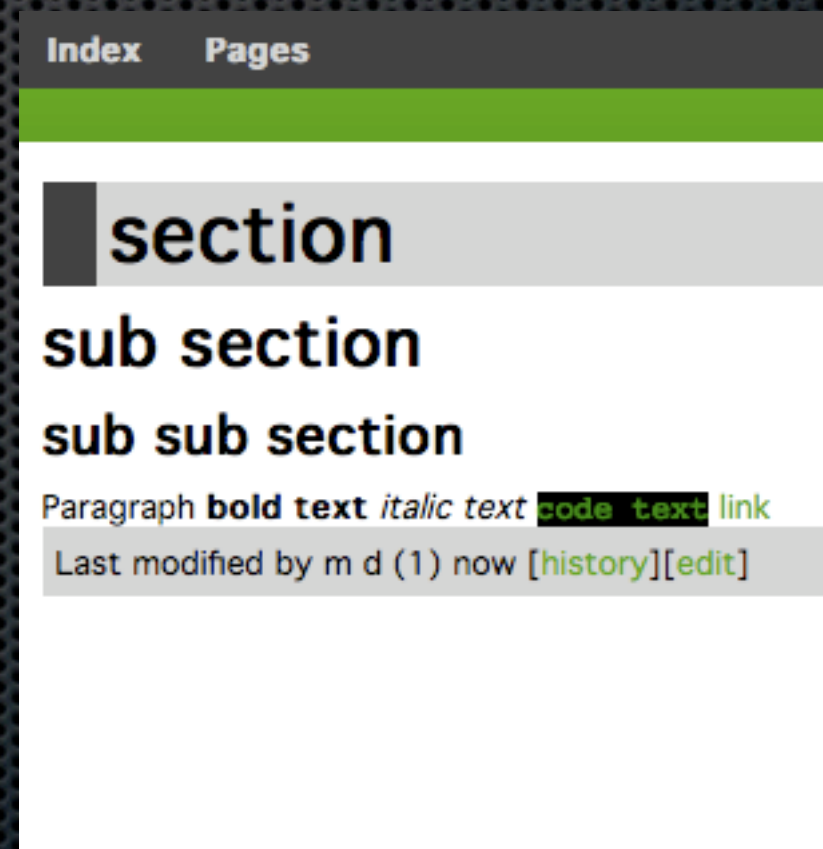
italic text

`code text`

[link http://google.com](http://google.com)

render

style depends on CSS



markmin
syntax

Example: media widgets

```
# Stars and planets
```

```
``
```

```
name: youtube
```

```
code: x1w8hKTJ2Co
```

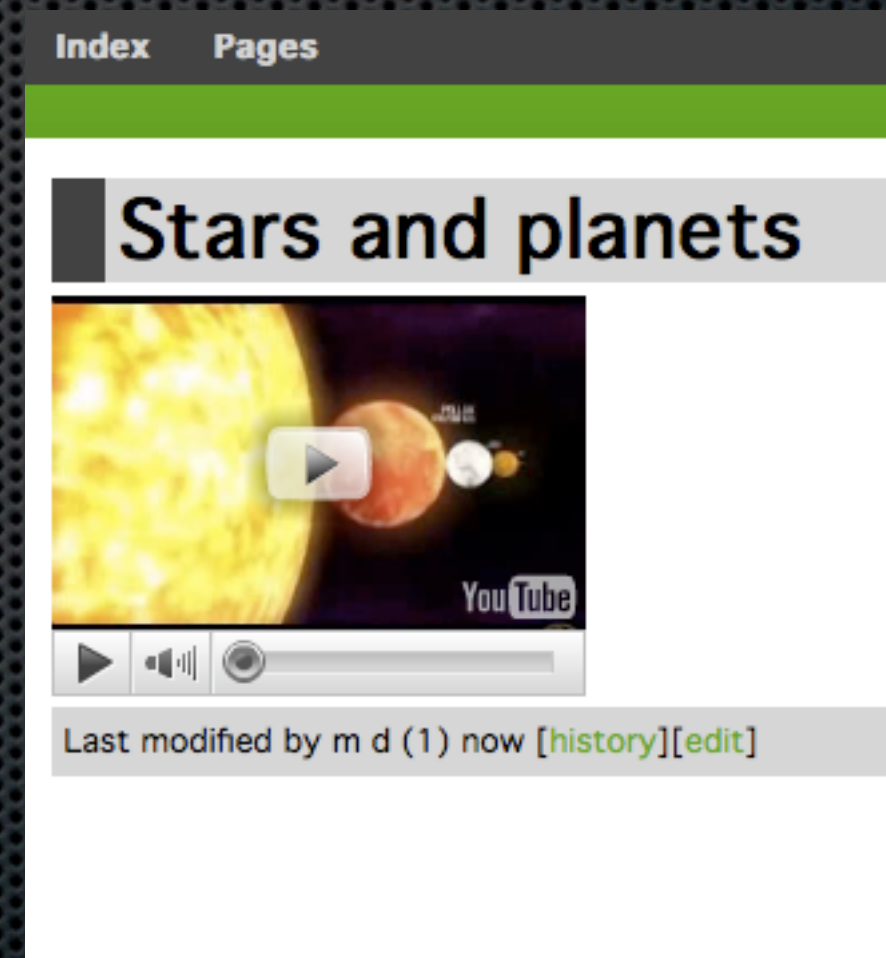
```
width: 200px
```

```
height: 150px
```

```
``:widget
```

widget
attributes

it's a widget!



Example: crud forms

```
# Crud Create Form
```

```
``
```

```
name: create
```

```
table: friend
```

```
``:widget
```

assumes table
"friend" defined

The screenshot shows a web application interface. At the top, there are two tabs: 'Index' and 'Pages'. Below the tabs is a green horizontal bar. The main content area has a header 'Crud Create Form' in a grey box. Below the header, there are two input fields: 'Name:' and 'Phone:'. Below the 'Phone:' field is a 'Submit' button. At the bottom of the form, there is a grey bar with the text 'Last modified by m d (1) now' followed by two links: '[history]' and '[edit]'.

Example: jquery plugins

List of Friends

/ /

```
name: jqgrid
```

table: friend

width: 250

height: 200

```
` `:widget
```

based on
jQuery.jQgrid
plugin

pagination via ajax

Index		Pages
<h1>List of Friends</h1>		
Id	Name	Phone
1	John	111-1111-1111
2	Tim	<u>222-222-2222</u>
3	Alex	333-333-3333
<div> Page 1 of 1 <input type="text" value="20"/> </div>		
Last modified by m d (1) now [history][edit]		

Example: social widgets

```
# Tag a page
```

```
Tag this text
```

```
``
```

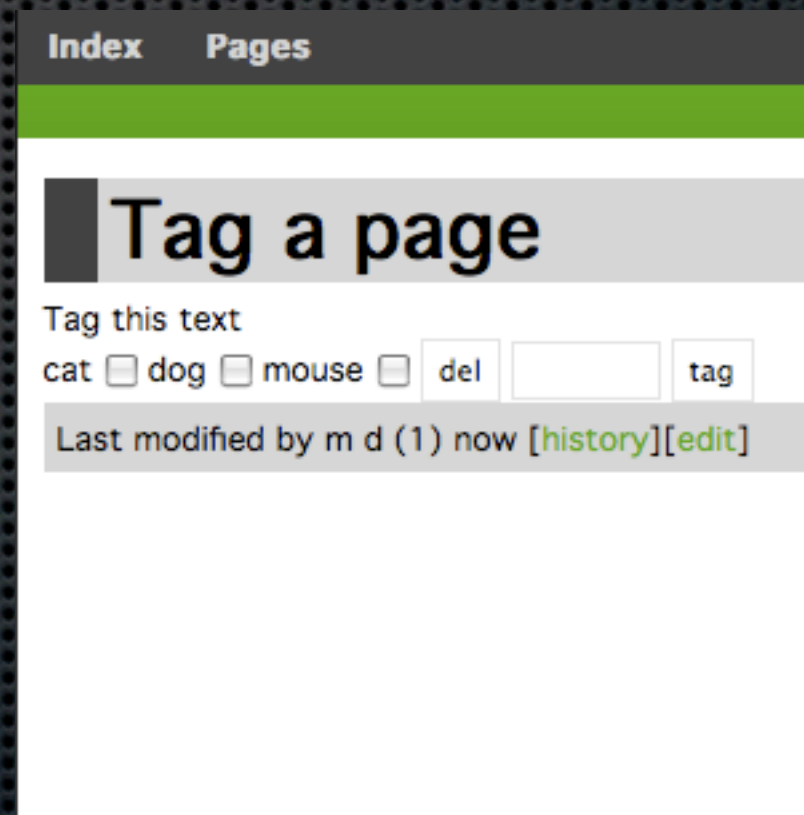
```
name: tags
```

```
table: page
```

```
record_id: 1
```

```
``:widget
```

tagging via ajax



The screenshot shows a web interface with a dark header containing 'Index' and 'Pages' links. Below the header is a green horizontal bar. The main content area has a title 'Tag a page' in a large, bold font. Underneath the title is the text 'Tag this text'. Below that is a row of checkboxes for 'cat', 'dog', and 'mouse', followed by a 'del' button, an empty text input field, and a 'tag' button. At the bottom of the form, a status bar indicates 'Last modified by m d (1) now' with links for '[history]' and '[edit]'.

Example: executable code

```
# Embedded code
```

```
Using the web2py template  
language
```

```
``
```

```
Counting
```

```
{{for i in range(3):}}
```

```
    <b>{{=i}}</b>...
```

```
{{pass}}
```

```
``:template
```

[Index](#) [Pages](#)

Embedded code

Using the web2py template language

Counting **0...1...2...**

Last modified by m d (1) 1 minute ago [\[history\]](#)[\[edit\]](#)

Special Pages

Some pages are special like
meta-menu: contains menu
meta-header: contains header
meta-footer: contains footer
meta-code:

contains code execute before
every page.

For example custom tables.

Index	Examples	Pages
	Google	
page: meta-menu	Yahoo	
[Attachments]		
Index	page:home	
Examples	page:examples	
	Google	http://google.com
	Yahoo	http://yahoo.com

Index	Examples	Pages
page: meta-code	title: Meta-code	active: <input checked="" type="checkbox"/> public: <input checked="" type="checkbox"/>
[Attachments]		
<pre>db.define_table('friend',Field('name'),Field('phone'))</pre>		

More

- Can be added as a plugin (plugin_wiki) to any web2py application

More

- ✦ Runs anywhere including on Google App Engine
- ✦ Based on web2py
- ✦ References:
 - ✦ <http://vimeo.com/13154869> (video)
 - ✦ <http://code.google.com/p/cube2py/> (source)
 - ✦ <http://web2py.com> (only requirement)