# pydoctor

http://codespeak.net/svn/user/mwh/pydoctor/trunk google("pydoctor mwh")

EuroPython 2006 Lightning Talk

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## Origins

- On the twisted-web mailing list, back in January 2006, radix (aka Chris Armstrong aka Twisted's release manager) said:
  - "API docs are basically impossible to generate for mortals right now."
- Twisted API docs had been generated with epydoc for a while, with occasional extreme pain

#### Extreme Pain

Do you think this is sane code:

• or this:

```
getargspec_orig = inspect.getargspec
def getargspec(func):
    ....
inspect.getargspec = getargspec
```

 Both from Twisted/admin/epyrun ("only read this file if you want your eyes to bleed")

## Design

- Works statically, using the standard library's compiler module to walk ASTs
- Analyses systems or whole collections of modules, rather than working module by module
- Works "outside in" or "breadth first"
- Didn't look at prior art at all...

## Interesting Features

- Extracting docstrings is by far the easiest bit
- Can compute class hierarchies, knows about zope.interface
- Resolves local imports
- Can to some extent cope with "import \*" statements
- Still fairly small (2500 LOC)
- Tested (py.test) (well...)
- Completely undocumented, no web site...
   hopefully this will change soon-ish

### M.O.

- Contains two main parts:
  - Source code analyzer, dumps a pickle containing a "System"
  - HTML generator, uses said pickle
- Now in use at:

http://twistedmatrix.com/documents/current/api/

#### Other uses

- Could easily do import analysis
- Some kinds of pychecker-ish stuff (though pylint, pyflakes, ...)
- Automated refactoring...??