

Building Web Apps *with Gantry and Bigtop*

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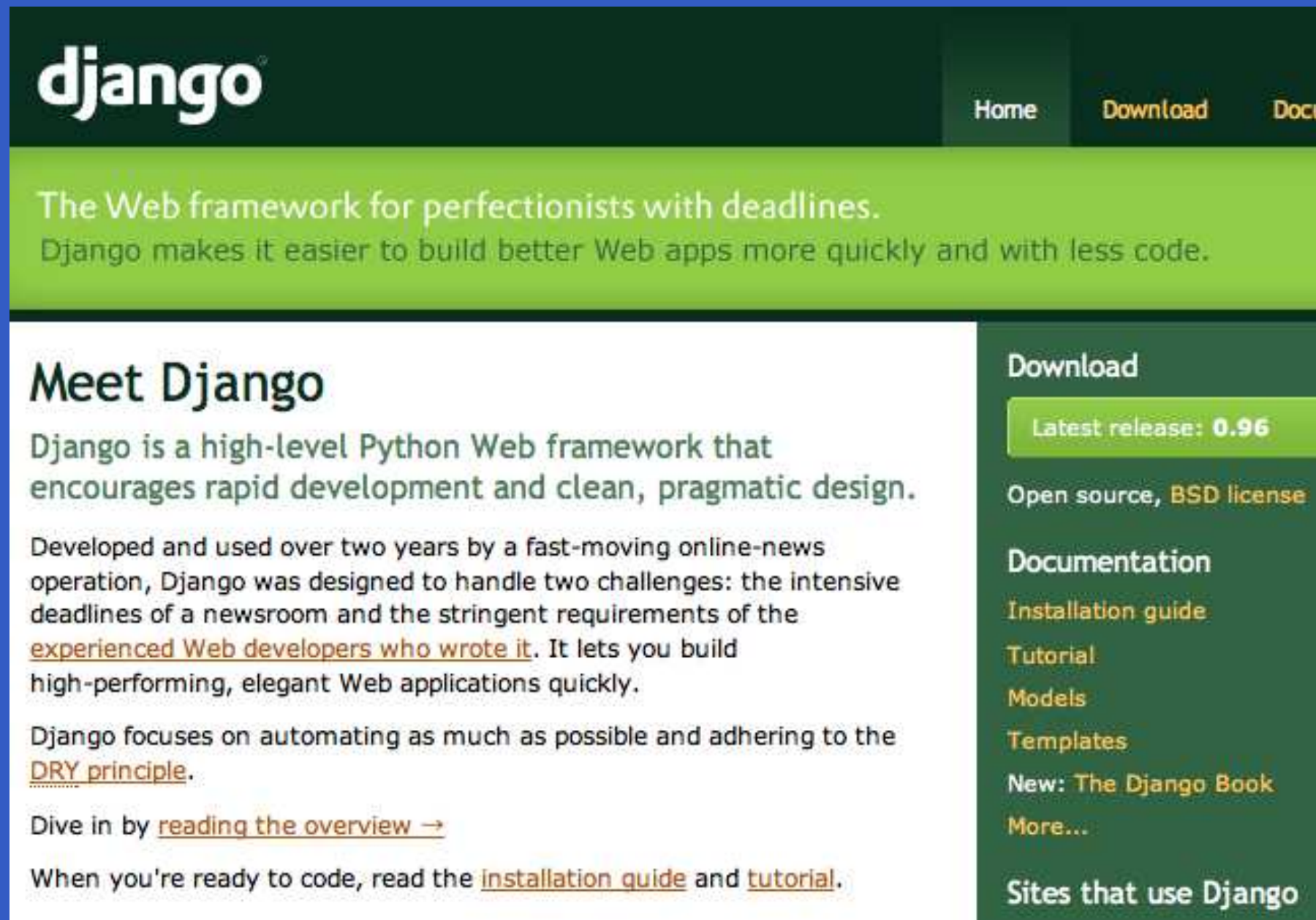
Sunflower Broadband

Lawrence, KS

Who in The World are we?



Who in The World are we?



The image is a screenshot of the Django website homepage. The header features the Django logo on the left and navigation links for Home, Download, and Documentation on the right. A green banner below the header contains the tagline: 'The Web framework for perfectionists with deadlines. Django makes it easier to build better Web apps more quickly and with less code.' The main content area is divided into two columns. The left column, titled 'Meet Django', describes the framework as a high-level Python Web framework that encourages rapid development and clean, pragmatic design. It mentions that Django was developed and used over two years by a fast-moving online-news operation, designed to handle intensive deadlines and stringent requirements. It states that Django lets you build high-performing, elegant Web applications quickly. It also notes that Django focuses on automating as much as possible and adhering to the DRY principle. At the bottom of this column, it invites users to dive in by reading the overview and provides links to the installation guide and tutorial. The right column contains links for downloading the latest release (0.96), which is open source under the BSD license. It also provides links to the documentation, including the installation guide, tutorial, models, and templates. At the bottom of this column, it mentions 'New: The Django Book' and a 'More...' link. The footer of the right column lists 'Sites that use Django'.

django

Home Download Docu

The Web framework for perfectionists with deadlines.
Django makes it easier to build better Web apps more quickly and with less code.

Meet Django

Django is a high-level Python Web framework that encourages rapid development and clean, pragmatic design.

Developed and used over two years by a fast-moving online-news operation, Django was designed to handle two challenges: the intensive deadlines of a newsroom and the stringent requirements of the [experienced Web developers who wrote it](#). It lets you build high-performing, elegant Web applications quickly.

Django focuses on automating as much as possible and adhering to the [DRY principle](#).

Dive in by [reading the overview](#) →

When you're ready to code, read the [installation guide](#) and [tutorial](#).

Download

Latest release: **0.96**

Open source, [BSD license](#)

Documentation

[Installation guide](#)

[Tutorial](#)

[Models](#)

[Templates](#)

New: [The Django Book](#)

[More...](#)

Sites that use Django

Who in The World are we?

Sign in.



73°

LJWORLD.COM
LAWRENCE JOURNAL-WORLD & 6NEWS

Marketplace

Today's news

Local

State

Sports

A&E

Living

Rising waters, rising fears

May 8, 2007

A weekend of heavy rain in Douglas County and much of northeastern Kansas caused havoc Monday, as streets and roads were closed and some people had to be rescued from isolated areas because of rising water.

- > Video: Man rescued after being stranded on an island in the Kansas River
- > Video: High waters force emergency crews into action
- > Photo gallery: Flooding in Lawrence



Who in The World are we?



A Perl web application framework for Apache/mod_perl, CGI and Fast-CGI. Object oriented design allows for a pragmatic, modular approach to URL dispatching. Supports MVC and initiates rapid development, offering an organized coding scheme for web applications.

Documentation



[Introduction to a Framework](#)

[Quick Start](#)

[Tutorial](#)

[FAQ](#)

[POD Documentation](#)



The Gantry Book is now available from lulu.com. The [code samples](#) are also available.

3 Minute Movie

Three table app for grand parents' address book, using only defaults

Features

Code generation with [BigTop](#)

Plugin architecture

Supports [mod_perl](#) 1.3 and 2.0

Supports CGI and Fast-CGI

Supports [Template Toolkit](#) and the ability to plugin other templating systems

Inherited framework code for a standard [CRUD](#) application.

What do we build?

Apps to support our business

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Apps to support our business

- press run efficiency - Gutenberg

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Apps to support our business

- press run efficiency - Gutenberg
- what's in the paper and on TV - News Budget

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- press run efficiency - Gutenberg
- what's in the paper and on TV - News Budget
- telephone provisioning - PhoneProv

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Apps to support our business

- press run efficiency - Gutenberg
- what's in the paper and on TV - News Budget
- telephone provisioning - PhoneProv
- on site tech scheduler - Hoffa

Sample App Background

Carpool conversation

Sample App Background

Carpool conversation

Rob: How do you pick stocks?

Sample App Background

Carpool conversation

Rob: How do you pick stocks?

Phil: Three things:

- Good products
- Good place to work
- Good current price

Sample App Background

Carpool conversation

Rob: How do you pick stocks?

Phil: Three things:

- Good products
- Good place to work
- Good current price

Rob: So, you're a fundamentalist

Hello, Rob!

```
package HiRob;
use strict; use warnings;

use base 'Gantry';

sub do_main {
    my $self = shift;

    return 'Hello, Rob';
}

1;
```

Hello, Rob!

```
LoadModule perl_module modules/mod_perl.so
LoadModule apreq_module modules/mod_apreq2.so
```

```
<Perl>
    use lib '/path/to/hirob/dir';
    use HiRob qw{
        -Engine=MP20
        -TemplateEngine=Default
    };
</Perl>
```

```
<Location />
    SetHandler perl-script
    PerlHandler HiRob
</Location>
```

Hello, Rob!

```
<Perl>
  use lib '/path/to/hirob/dir';
  use HiRob qw{
    -Engine=MP20
    -TemplateEngine=TT
  };
</Perl>

<Location />
  PerlSetVar root /path/to/hirob/templates
  SetHandler perl-script
  PerlHandler HiRob
</Location>
```

Hello, Rob!

```
<Perl>
  use lib '/path/to/hirob/dir';
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<Location />
  PerlSetVar root /path/to/hirob/templates
  SetHandler perl-script
  PerlHandler HiRob
</Location>
```

Hello, Rob!

```
package HiRob;
use strict; use warnings;

use base 'Gantry';

sub do_main {
    my $self      = shift;
    my $url_arg = shift || '';

    $self->stash->view->template( 'greet_rob.tt' );
    $self->stash->view->title( 'Greetings!' );

    $self->stash->view->data(
        { greeting => "Hello, Rob: $url_arg" }
    );
}

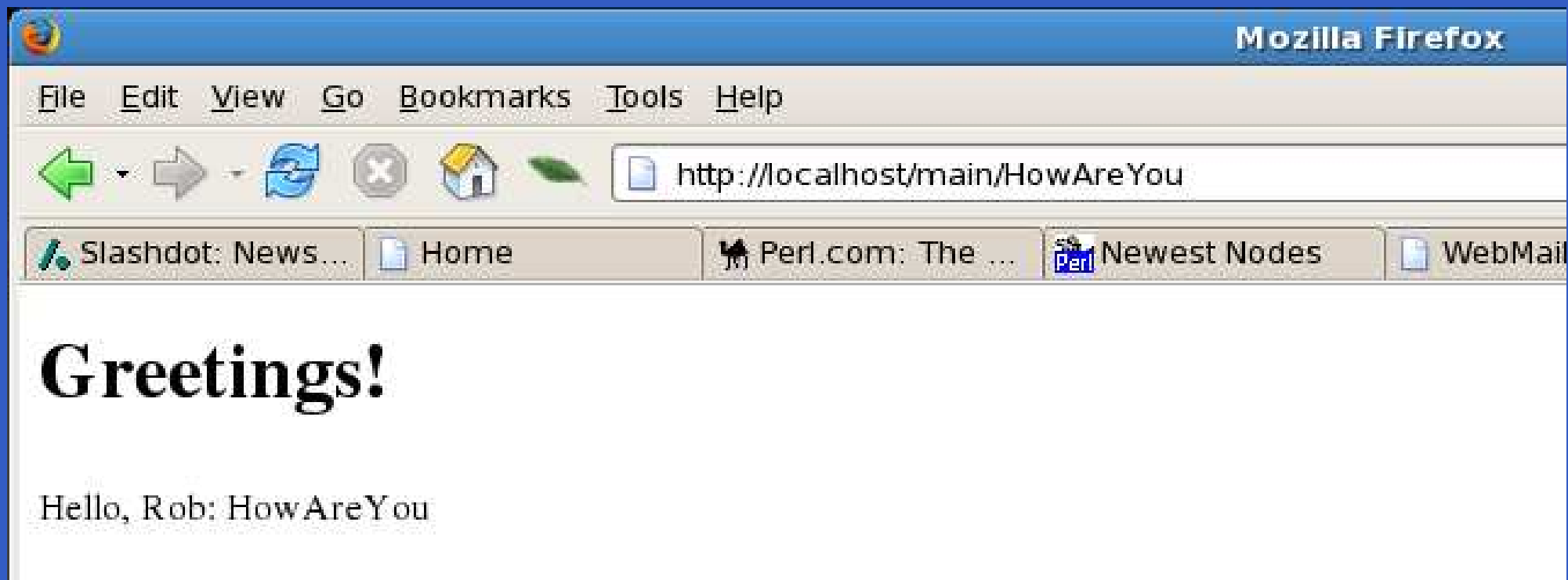
1;
```

Hello, Rob!

```
<h1> [% view.title %] </h1>  
  
[% view.data.greeting %]
```


Hello, Rob!

```
<h1> [% view.title %] </h1>  
  
[% view.data.greeting %]
```



Sample App: Track Stops

Data Model - Key to Most Apps

- stock - symbol, name

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Data Model - Key to Most Apps

- stock - symbol, name
- lot - stock, bought, cost, shares

Sample App: Track Stops

Data Model - Key to Most Apps

- stock - symbol, name
- lot - stock, bought, cost, shares
- stop - stock, price per share, executed

Starting Small

- bigtop -n StockTrack 'stock<-lot stop->stock
stock(symbol,name)
lot(bought:date,cost:int4,shares:int4)
stop(price:int4,+executed:date)'

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- `bigtop -n StockTrack 'stock<-lot stop->stock
stock(symbol,name)
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- `cd StockTrack`

Starting Small

- `bigtop -n StockTrack 'stock<-lot stop->stock
stock(symbol,name)
lot(bought:date,cost:int4,shares:int4)
stop(price:int4,+executed:date)'`
- `cd StockTrack`
- `sqlite3 app.db < docs/schema.sqlite`

Starting Small

- `bigtop -n StockTrack 'stock<-lot stop->stock
stock(symbol,name)
lot(bought:date,cost:int4,shares:int4)
stop(price:int4,+executed:date)'`
- `cd StockTrack`
- `sqlite3 app.db < docs/schema.sqlite`
- `./app.server`

Starting Small

- `bigtop -n StockTrack 'stock<-lot stop->stock
stock(symbol,name)
lot(bought:date,cost:int4,shares:int4)
stop(price:int4,+executed:date)'`
- `cd StockTrack`
- `sqlite3 app.db < docs/schema.sqlite`
- `./app.server`
Available urls:
`http://localhost:8080/`
`http://localhost:8080/lot`
`http://localhost:8080/stop`
`http://localhost:8080/stock`

Running the Small App

Gantry

3.48

Stock		
<div>Stock ▾</div>		
Symbol	Name	[Add]
No Data		

Running the Small App

Gantry

3.48

Add stock

Add

Symbol*

OGE

Name*

OG&E

* required field

Submit

Cancel

Running the Small App

Gantry

3.48

Stock

Stock ▾

Symbol	Name	[<u>A</u> dd]
OGE	OG&E	[<u>E</u> dit <u>D</u> elete]

Running the Small App

Gantry

3.48

Stop

Stop ▾

Price	Executed	[Add]
No Data		

Running the Small App

Gantry
3.48

Add stop

Add

Price*

2790

Executed

Stock*

OGE ▾

* required field

Submit

Cancel

Running the Small App

Gantry

3.48

Stop

Stop ▾

Price	Executed	[Add]
2790		[Edit Delete]

Tour of Generated Files

```
[phil@sunmall152 StockTrack]$ ls
app.cgi      Changes  MANIFEST      t
app.db      docs    MANIFEST.bak
app.server  html    MANIFEST.SKIP
Build.PL    lib     README
```

Tour of Generated Files

```
[phil@sunmall152 StockTrack]$ ls docs
app.gantry.conf      schema.sqlite
httpd.conf           stocktrack.bigtop
schema.mysql         StockTrack.gantry.conf
schema.postgres
```

Tour of Generated Files

```
[phil@sunmall152 StockTrack]$ ls t  
01_use.t  02_pod.t  03_podcover.t  10_run.t
```

Tour of Generated Files

```
[phil@sunmall152 StockTrack]$ ls lib  
GENStockTrack.pm  StockTrack  StockTrack.pm
```

Tour of Generated Files

```
[phil@sunmall152 StockTrack]$ ls lib/StockTrack  
GEN          Lot.pm  Model.pm  Stop.pm  
GENModel.pm  Model  Stock.pm
```

Getting Away from Defaults

Gantry

3.48

Stop

Stop ▾

Price	Executed	[Add]
2790		[Edit Delete]

Getting Away from Defaults

tentmaker docs/stocktrack.bigtop

Getting Away from Defaults

tentmaker docs/stocktrack.bigtop

Stop tentmaker	Save As:	docs/stocktrack.bigtop
----------------	----------	------------------------

tentmaker - A Bigtop Editor

Bigtop Config	App Body	Backends	App Level Statements
---------------	----------	----------	----------------------

Application Name:

Engine:

Template Engine:

Plugins:

[Current bigtop file](#)

Getting Away from Defaults

tentmaker docs/stocktrack.bigtop

Controller ([edit or hide](#) | [delete](#))

Name:

Stop

Controller Type: AutoCRUD ▾

Getting Away from Defaults

tentmaker docs/stocktrack.bigtop

Method ([edit or hide](#) | [delete](#))

Name:

Type: ▼

Getting Away from Defaults

tentmaker docs/stocktrack.bigtop

cols	price
	executed
	stock

Getting Away from Defaults

```
tentmaker docs/stocktrack.bigtop  
bigtop docs/stocktrack.bigtop all
```

Getting Away from Defaults

```
tentmaker docs/stocktrack.bigtop  
bigtop docs/stocktrack.bigtop all  
./app.server
```

Getting Away from Defaults

```
tentmaker docs/stocktrack.bigtop  
bigtop docs/stocktrack.bigtop all  
./app.server
```

Gantry

3.48

Stop

Stop ▾

Price	Executed	Stock	[<u>A</u> dd]
2790		OGE	[<u>E</u> dit <u>D</u> elete]

Why Gantry?

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- regeneration (Bigtop again)

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Gantry Features:

- easy config with `Gantry::Conf`
- simple dispatching
- no magical code (except in your ORM)
- ease of starting (Bigtop generation)
- regeneration (Bigtop again)
- plays well with others

Find out More

- CPAN - get stable Gantry and Bigtop

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- usegantry.org - project home

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