

# Starting a Django Project

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# Overview



**Create a Django project**

**Run the application**

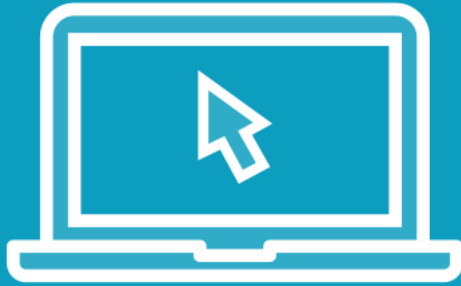
**Setting up Pycharm**

**Add a “Hello World” page**

- Add a simple view
- Add a URL mapping
- Later: Templates, models, styling



# Demo



Creating a new project

Running the server

Setting up Pycharm



```
django-admin.py startproject projectname
```

## Creating a New Project

You should run this inside an *active virtual environment*



```
cd projectname      # in our case: "tictactoe"  
python manage.py runserver
```

## Running the Project

**This runs the Django development server**

**Will reload Python code automatically**

**Don't use this as a production server**

**Stop the server with `Ctrl+C`**



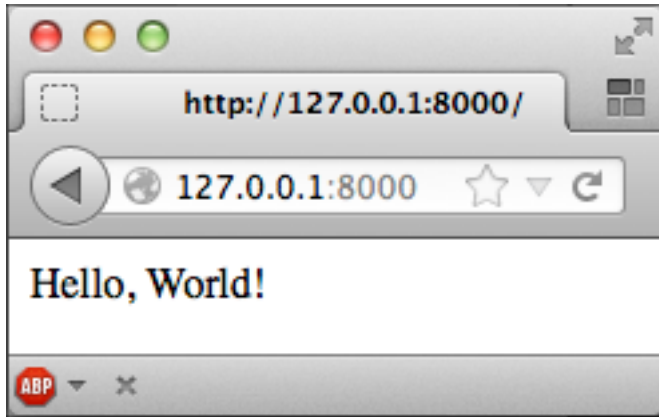
# Demo



Adding a simple “Hello, World” page



# Handling a Request



GET / HTTP/1.1

**django**  
runserver



Request: "GET / HTTP/1.1"

```
# in urls.py
```

```
url(r'^$', welcome)
```

```
# in views.py
```

```
def welcome(request):  
    return HttpResponse(  
        "Hello, World!")
```

◀ Django server receives request

◀ Find a matching *URL mapping*

◀ Call corresponding *view function*

◀ ... Send response to client





# How URLs Are Mapped

When an HTTP request comes in

Django looks in `urls.py`

- `urlpatterns` variable
- Holds a list of URL mappings

**URL mapping**

- Match URLs with *regular expressions*
- Map URLs to views

Python regexp: <http://goo.gl/5uJsfy>



# Django Views

**Django views are what other MVC frameworks call “Controllers”**

## **View functions**

- Take a request parameter
- Return a response object

## **Views can also be classes**

- (covered later in this course)



```
def welcome(request):  
    return HttpResponse("Hello, World!")
```

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## Returning an HTTP Response

**Status code 200**

**Response contains text/HTML**

**Simple HttpResponse instance**



# Summary



## Create a Django project

- `django-admin.py startproject projname`

## Run the application

- `python manage.py runserver`

## Add a simple view and URL mapping