



# The Daily Profeth

DONNERSTAG, 10. APRIL 2008

## ➔ Google App Engine & eclipse (PyDev)

updated (Link to youtube video) thanks to mano marks.

updated (Python debugging) thanks to mkielar.

updated (CC-by license).

Update: If you like following a video more than reading some text, Mano Marks from Google created a [screencast about how to get started with App Engine](#).

Since Google published their [App Engine](#), I am highly interested in it. Too bad I didn't get an App Engine account, but at least I am able to test it locally...

As a fan of eclipse and being new to Python development, I searched for an eclipse Python extension and finally found [PyDev sourceforge project](#).

I know this is basic stuff, but it took me some minutes to find out how to get code completion working with Google App Engine.

So here is a small HowTo for getting App Engine with eclipse and PyDev up and running:

## Über mich



[Joscha Feth](#)  
Stuttgart, Baden-  
Württemberg,  
Germany

[Mein Profil](#)

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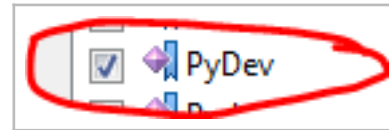
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1. Get [Python](#) and install it.
2. Get [eclipse](#) and unzip it.
3. Get the [Google App Engine SDK](#) and install it.
4. Open eclipse and go to Help -> Software Updates -> Find and Install.

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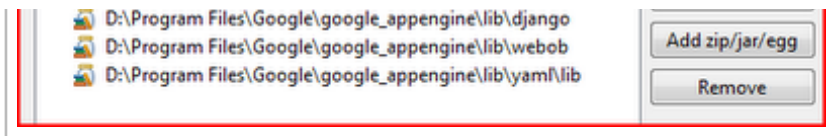
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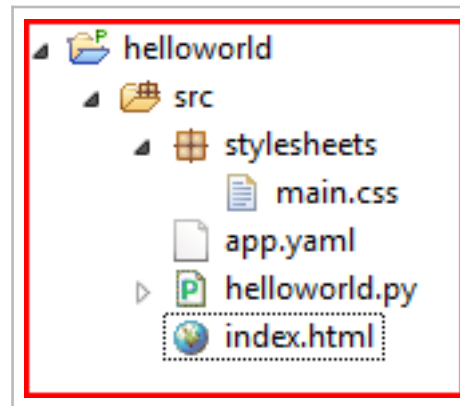
► März (1)

Pydev folder.

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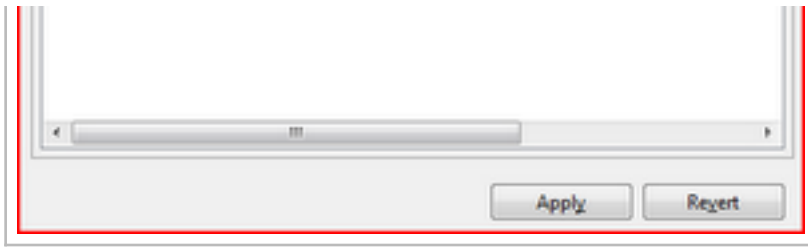


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```
EXC00 2008-04-20 01:05:04.779 __main__.py: TransBack (most recent call last):
  File "C:\Program Files\Google\GoogleUpdate\GoogleUpdate.exe", line 814, in __call__
    handler.get("google")
  File "C:\Program Files\Google\GoogleUpdate\GoogleUpdate.exe", line 814, in get
    some_typing_error
NameError: global name 'some_typing_error' is not defined

EXC00 2008-04-20 01:05:04.888 dev_appserver.py: *GET / HTTP/1.1* 500 -
```



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Eingestellt von [Joscha Feth](#) um [10:25](#)



Auf Google empfehlen

Labels: [App Engine SDK](#), [AppEngine](#), [eclipse](#), [Google](#), [howto](#), [PyDev](#), [Python](#)

## Kommentare:



[Latrz team](#) [16. April 2008 11:07](#)

Great article -thanks! :)

[Antworten](#)



[A Desi in DC](#) [18. April 2008 04:28](#)

Thanks - much appreciated.

## [Antworten](#)



**mkielar** [20. April 2008 00:29](#)

Heym great post. Actually you can even debug the application. To do so, go to Run->Open debug dialog ad create new configuration under "Python Run"

Then, put C:\Program Files\Google\google\_appengine\dev\_appserver.py for the "Main Module" in "Main" tab, and your project name in "Program arguments" in "Arguments" tab.

That's it - you can debug your web application then :-)

## [Antworten](#)



**Juraj Misur** [26. April 2008 18:53](#)

Great! I just started to play with python/appengine, it's beautiful that it's working in eclipse like this. Special thx for code-completion.

## [Antworten](#)



**Anonym** [29. April 2008 08:11](#)

Thank you so much for this tutorial.  
You saved me a lot of time.

## [Antworten](#)





**Libor Nenadál** 4. Mai 2008 14:06

Thanks for the article!

[Antworten](#)



**Robert Little** 8. Mai 2008 10:23

Nice post.

I am a little stuck at the part where the google app engine paths need to be added.

[Antworten](#)



**Joscha Feth** 8. Mai 2008 11:13

Hi Robert,

for adding the paths, just click on "Add source folder" and browse to the different directories - you can see [in this picture](#), which directories are needed.

greet,  
Joscha

[Antworten](#)

**David Cifuentes** 13. Mai 2008 02:40

Hi Joscha,

I'm doing the same "Run As" technique to update my application in

the real GAE sandbox using the appcfg.py update command, but I'm falling into a very stupid error, when the Eclipse console system.in ask me about my email/password I can't enter them, the editor keeps line breaking. You can maybe help me with that one. Thanks a lot. Great post.

[Antworten](#)



[Bogdan](#) [20. Mai 2008 16:25](#)

Thank a lot for the nice post!

[Antworten](#)



[Teun](#) [21. Mai 2008 15:24](#)

Thanks for this step-by-step. Saved me a lot of time

[Antworten](#)



[to Kobe](#) [26. Mai 2008 12:58](#)

@David Cifuentes

my (ugly) workaround: in appcfg.py ( UserCredentials() ) password input change to "raw\_input"

[Antworten](#)



[Sambi Reddy Badduri](#) [2. Juni 2008 03:45](#)

Great article. thanks alot. this really helped me

## [Antworten](#)



[Sambi Reddy Badduri](#) [2. Juni 2008 03:46](#)

Great Article it really helped me thanks

## [Antworten](#)



[chandru](#) [14. Juni 2008 20:55](#)

Hi,

the article is really nice. thanks.

I am trying to configure the step 3.

but i am getting some error. but if i execute the command  
dev\_appserver.py src. the server works.

i am not sure what i am doing wrong.

i get this error

File "C:\Python25\lib\cookielib.py", line 37, in  
from calendar import timegm  
ImportError: cannot import name timegm

## [Antworten](#)



[Rob Heittman](#) [29. Juni 2008 02:30](#)

The YAML Editor (<http://code.google.com/p/yamleditor/>) is another  
mighty handy plugin given how YAML heavy App Engine is.

## [Antworten](#)



**Anonym** [17. Juli 2008 13:41](#)

Do you have code completion working for the appengine modules?

For example, how do you get code completion at point x while declaring attributes in a class definition like this:

```
class Product(db.Model):  
    # Basic info.  
    name = db.StringProperty()  
    company = db.x
```

## [Antworten](#)



**Anonym** [17. Juli 2008 13:58](#)

well, to answer my question: make sure you have set up your PYTHONPATH correctly and than, at the beginning of your code file, just don't forget to import the db module from the appengine extension....

## [Antworten](#)



**Anonym** [22. Juli 2008 19:38](#)

Yes, thank you for this. I'm a Java developer new to Python and was wanting to try out the Google App Engine. I appreciate this writeup very much!

### [Antworten](#)



**Anonym** [22. Juli 2008 19:40](#)

Thank you for this writeup. I'm a Java developer new to Python and was wanting to try out the Google App Engine. This got me going quickly, thanks!

### [Antworten](#)



**Anonym** [29. Juli 2008 18:08](#)

Thanks a lot for your kindness saved me time and patience! Let's see now what is the pntial of this whole Python-Google ecosystem...

### [Antworten](#)



**Anonym** [31. Juli 2008 14:05](#)

Thank you very much for the quick start details.It really works.

### [Antworten](#)



**Anonym** [3. September 2008 08:45](#)

Thanks so much for posting this. I'm now happily debugging my GAE app in Eclipse!

- Tyler

### [Antworten](#)



**firdaus** 7. September 2008 13:35

Thanks for great tutorial, it's working well..

btw i got an error that say the port already in use when trying to re-run the apps.

it was suggested to use control-C to stop the apps in this docs ([http://code.google.com/appengine/docs/thedevwebserver.html#Running\\_the\\_Development\\_Web\\_Server](http://code.google.com/appengine/docs/thedevwebserver.html#Running_the_Development_Web_Server))

but it's different when using eclipse. any suggestion to stop last running apps with eclipse?

he is the error log messege:

```
SocketServer.TCPServer.server_bind(self)
```

```
File "/usr/lib/python2.5/SocketServer.py", line 341, in server_bind  
self.socket.bind(self.server_address)
```

```
File "string", line 1, in bind
```

```
socket.error: (98, 'Address already in use')
```

[Antworten](#)



**Marc de Ruijter** 30. September 2008 00:31

Thanks, very good article. This saved me hours.

[Antworten](#)



**Anonym** 17. Oktober 2008 02:48

chandru and anyone else having an error with from calendar import

timegm! Same problem here, fixed, it was another calendar module. In this case it was from the gdata-python-client , which does not have the timegm function.

And i don't know what these post options say, i think i'm posting anonymous.

[Antworten](#)



**gheidorn** [26. Februar 2009 19:34](#)

How do I fix the issue with "from calendar import timegm"?

Basically getting an error at runtime saying cookielib.py can't find the timegm module.

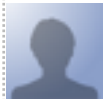
[Antworten](#)



**Anonym** [10. März 2009 20:55](#)

very nice and clear

[Antworten](#)



**Anonym** [6. April 2009 14:56](#)

Congratulations!!! Very nice tutorial!

[Antworten](#)



**Ali** [7. Mai 2009 14:20](#)



Thanks for the great article.

I ported your solution to develop/debug AppEngine applications in Aptana (PyDev):

<http://www.alishabdar.com/2009/05/06/develop-google-appengine-with-aptana-studio/>

Personally I get along with Aptana better ;)

[Antworten](#)



[immeëmosol](#) [4. Oktober 2009 01:13](#)

@firdaus :

one seems to be able to stop the server by using the `terminate`-button as written just above the heading "Uploading to Google App Engine" on

[http://code.google.com/intl/eo/appengine/docs/java/tools/eclipse.html#Uploading\\_to\\_Google\\_App\\_Engine](http://code.google.com/intl/eo/appengine/docs/java/tools/eclipse.html#Uploading_to_Google_App_Engine)

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[Antworten](#)



[Victor](#) [19. November 2010 11:27](#)

Great post, very helpful. Thank you so much.

[Antworten](#)





Anonym [24. April 2011 02:07](#)

Thanks - this has been of great help. Really appreciate it.  
- Ank

[Antworten](#)



Anonym [10. März 2012 02:37](#)

Danke für den Artikel. Ich war Austausch-Student @ Uni-Stuttgart.  
Können Sie mir sagen, wie picloud mit GAE zu verbinden. Mail  
qw6yl@boun.cr  
besuchen Sie meine Blog <http://goo.gl/8w2yW>  
guten tag.

[Antworten](#)

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