



Logging is good for you

and everyone else

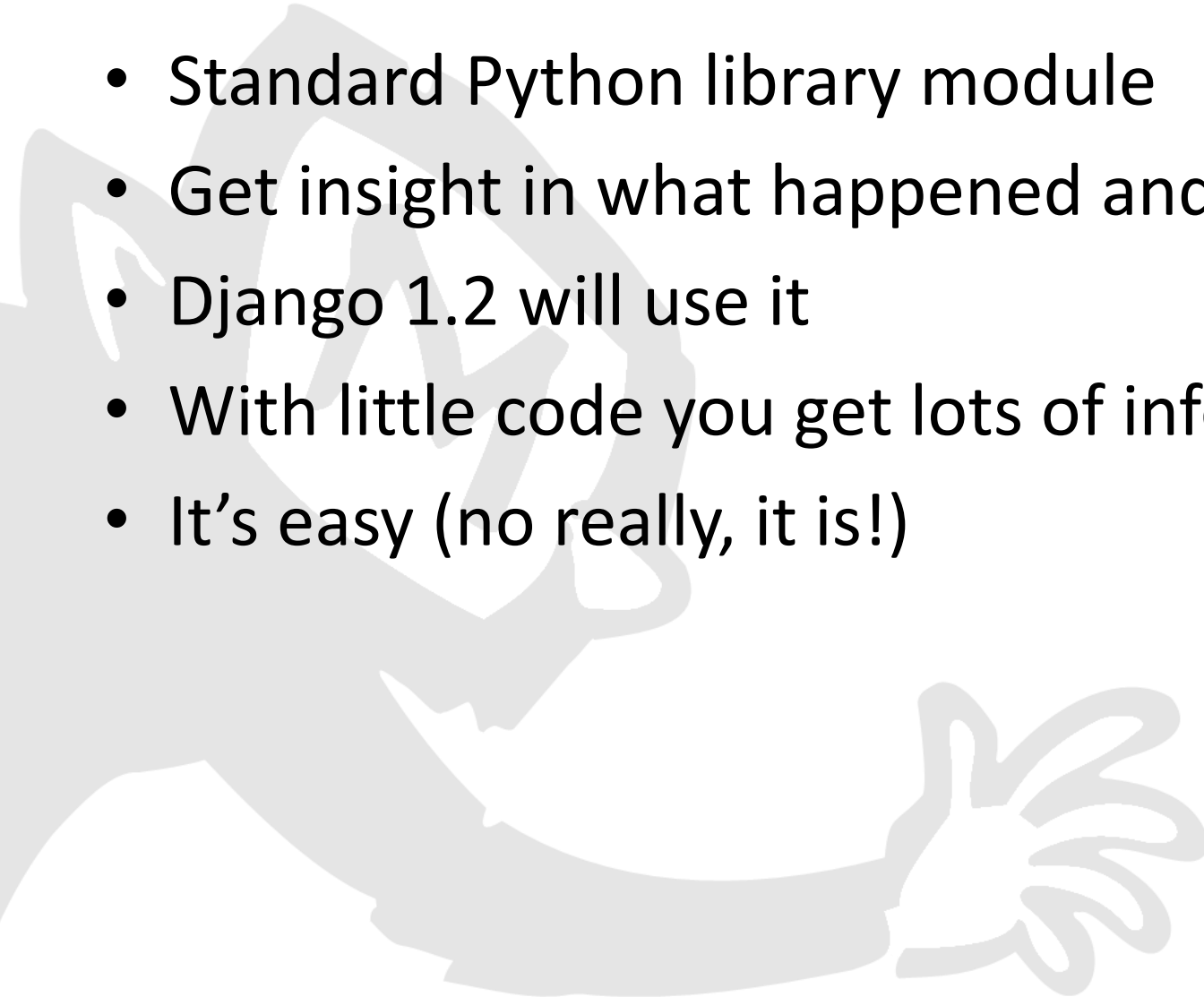
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Why log?

- Standard Python library module
- Get insight in what happened and when
- Django 1.2 will use it
- With little code you get lots of information
- It's easy (no really, it is!)





settings.py

- Activate logging in settings.py

```
import logging
```

```
LOG_FILENAME = '/tmp/logging_example.out'
```

```
logging.basicConfig(filename=LOG_FILENAME, level=logging.DEBUG)
```

- Yep, that's all there's to it. All log messages are now written to file.



Example

```
import logging
import xmllib
from models import AddressBook

logger = logging.getLogger(__name__) # results in: myproject.myapp.utils

def import_data(xml_string):
    logger.info('Starting import of addressbook.')
    xml = xmllib.parse(xml_string)

    for xml_entry in xml.xpath('addressbook/person'):
        person, created = AddressBook.objects.get_or_create(...)
        if created:
            logger.debug('Imported person %s into addressbook.', person.name)

    logger.info('Import of addressbook completed.')
```



The log “file”

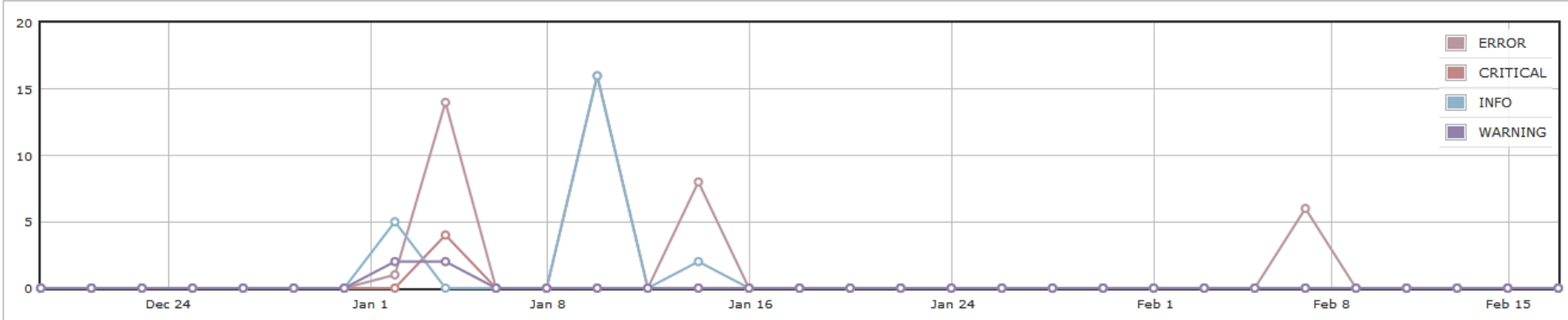
```
12:34:10 INFO      import_data, 8      Starting import of addressbook.
12:34:11 WARNING  xmllib.parse, 1311  Incorrect XML header, assuming [...]
12:34:27 DEBUG    django.db.query, 19 INSERT INTO myapp_addressbook VALUES [...]
12:34:27 DEBUG    import_data, 14     Imported person Remco into addressbook.
12:34:27 DEBUG    django.db.query, 19 INSERT INTO myapp_addressbook VALUES [...]
12:34:27 DEBUG    import_data, 14     Imported person Mike into addressbook.
12:34:28 DEBUG    django.db.query, 19 INSERT INTO myapp_addressbook VALUES [...]
12:34:28 DEBUG    import_data, 14     Imported person Jacob into addressbook.
[...]
12:34:28 INFO      import_data, 22     Import of addressbook completed.
```



django-logdb / log entries

Add log entry +

Select log entry to view



2010

Action: Go

<input type="checkbox"/>	Created	Level	Name	Module	Function name	Line number	Process	Thread	Message	Extra
<input type="checkbox"/>	Feb. 7, 2010, 10:59 a.m.	Error	djangologdb.middleware	middleware	process_exception	13	3400	1492	invalid literal for int() with base [...]	{}
<input type="checkbox"/>	Feb. 7, 2010, 10:59 a.m.	Error	djangologdb.middleware	middleware	process_exception	13	3400	1492	invalid literal for int() with base [...]	{}
<input type="checkbox"/>	Feb. 7, 2010, 10:43 a.m.	Error	djangologdb.middleware	middleware	process_exception	13	1812	1104	Caught an exception while rendering [...]	{}
<input type="checkbox"/>	Feb. 7, 2010, 10:41 a.m.	Error	djangologdb.middleware	middleware	process_exception	13	3376	528	Caught an exception while rendering [...]	{}
<input type="checkbox"/>	Feb. 7, 2010, 10:40 a.m.	Error	djangologdb.middleware	middleware	process_exception	13	2900	4052	Caught an exception while rendering [...]	{}
<input type="checkbox"/>	Feb. 7, 2010, 10:40 a.m.	Error	djangologdb.middleware	middleware	process_exception	13	2900	4052	Invalid block tag: 'endif'	{}
<input type="checkbox"/>	Jan. 14, 2010, 6:07 p.m.	Error	djangologdb.middleware	middleware	process_exception	13	5892	4208	invalid literal for int() with base [...]	None
<input type="checkbox"/>	Jan. 14, 2010, 5:46 p.m.	Error	djangologdb.middleware	middleware	process_exception	13	4996	504	admin/djangologdb/logdb_change_list.html	None
<input type="checkbox"/>	Jan. 14, 2010, 5:38 p.m.	Error	djangologdb.middleware	middleware	process_exception	13	5940	5884	Invalid block tag: 'djangologdb_med [...]	None
<input type="checkbox"/>	Jan. 14, 2010, 5:16 p.m.	Error	djangologdb.middleware	middleware	process_exception	13	5280	5680		None
<input type="checkbox"/>	Jan. 14, 2010, 5:16 p.m.	Info	root	views	index	18	5488	5912	Submitted form on %s.	None
<input type="checkbox"/>	Jan. 14, 2010, 5:15 p.m.	Info	root	views	index	18	5488	5912	Submitted form on %s.	None
<input type="checkbox"/>	Jan. 14, 2010, 4:43 p.m.	Error	djangologdb.middleware	middleware	process_exception	13	5868	4604	Invalid block tag: 'endif'	None
<input type="checkbox"/>	Jan. 14, 2010, 4:43 p.m.	Error	djangologdb.middleware	middleware	process_exception	13	5868	4604	Invalid block tag: 'endif'	None

Filter

By name

- All
- djangologdb: root
- djangologdb.middleware
- root

By level

- All
- Info
- Warning
- Debug
- Error
- Critical



django-logdb / stacktrace

Django administration

Welcome, joeri. Change password / Log out

Home > Django logdb > Log entries > invalid literal for int() with base [...]

View log entry

Summary

This **Error** message occurred in **middleware.py**, line **13**:

```
c:\werk\sites\maykinmedia\django-logdb\django-logdb\middleware.py, middleware.process_exception  
invalid literal for int() with base 10: 'some/other/media/dir/js/jquery.flot-0.6.min.js'
```

Additional information

Process 3400 (MainProcess)

Thread 1492 (Dummy-1)

Exception trace

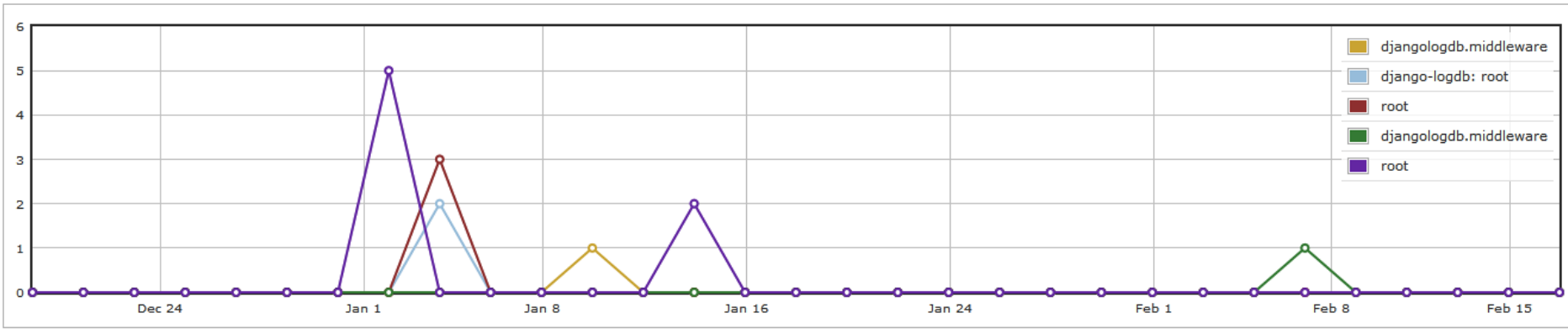
```
Traceback (most recent call last):  
File "C:\Werk\sites\maykinmedia\django-logdb\lib\site-packages\django-1.1.1-py2.6.egg\django\core\handlers\base.py", line 92, in get_response  
    response = callback(request, *callback_args, **callback_kwargs)  
File "C:\Werk\sites\maykinmedia\django-logdb\lib\site-packages\django-1.1.1-py2.6.egg\django\contrib\admin\options.py", line 226, in wrapper  
    return self.admin_site.admin_view(view)(*args, **kwargs)  
File "C:\Werk\sites\maykinmedia\django-logdb\lib\site-packages\django-1.1.1-py2.6.egg\django\views\decorators\cache.py", line 44, in _wrapped_view_func  
    response = view_func(request, *args, **kwargs)  
File "C:\Werk\sites\maykinmedia\django-logdb\lib\site-packages\django-1.1.1-py2.6.egg\django\contrib\admin\sites.py", line 186, in inner  
    return view(request, *args, **kwargs)  
File "C:\Werk\sites\maykinmedia\django-logdb\django-logdb\admin.py", line 45, in change_view  
    return super(LogEntryOptions, self).change_view(request, object_id, extra_context=django_logdb_context)  
File "C:\Werk\sites\maykinmedia\django-logdb\lib\site-packages\django-1.1.1-py2.6.egg\django\db\transaction.py", line 240, in _commit_on_success  
    res = func(*args, **kw)  
File "C:\Werk\sites\maykinmedia\django-logdb\lib\site-packages\django-1.1.1-py2.6.egg\django\contrib\admin\options.py", line 793, in change_view  
    obj = self.queryset(request).get(pk=unquote(object_id))  
File "C:\Werk\sites\maykinmedia\django-logdb\lib\site-packages\django-1.1.1-py2.6.egg\django\db\models\query.py", line 299, in get  
    clone = self.filter(*args, **kwargs)  
File "C:\Werk\sites\maykinmedia\django-logdb\lib\site-packages\django-1.1.1-py2.6.egg\django\db\models\query.py", line 498, in filter  
    return self.filter_or_exclude(False, *args, **kwargs)  
File "C:\Werk\sites\maykinmedia\django-logdb\lib\site-packages\django-1.1.1-py2.6.egg\django\db\models\query.py", line 516, in _filter_or_exclude  
    clone.query.add_q(Q(*args, **kwargs))  
File "C:\Werk\sites\maykinmedia\django-logdb\lib\site-packages\django-1.1.1-py2.6.egg\django\db\models\sql\query.py", line 1675, in add_q  
    can_reuse=used_aliases)  
File "C:\Werk\sites\maykinmedia\django-logdb\lib\site-packages\django-1.1.1-py2.6.egg\django\db\models\sql\query.py", line 1614, in add_filter  
    connector)  
File "C:\Werk\sites\maykinmedia\django-logdb\lib\site-packages\django-1.1.1-py2.6.egg\django\db\models\sql\where.py", line 56, in add  
    obj, params = obj.process_lookup_type, value)  
File "C:\Werk\sites\maykinmedia\django-logdb\lib\site-packages\django-1.1.1-py2.6.egg\django\db\models\sql\where.py", line 269, in process  
    params = self.field.get_db_prep_lookup(lookup_type, value)  
File "C:\Werk\sites\maykinmedia\django-logdb\lib\site-packages\django-1.1.1-py2.6.egg\django\db\models\fields\_init_.py", line 210, in get_db_prep_lookup  
    return [self.get_db_prep_value(value)]  
File "C:\Werk\sites\maykinmedia\django-logdb\lib\site-packages\django-1.1.1-py2.6.egg\django\db\models\fields\_init_.py", line 361, in get_db_prep_value  
    return int(value)  
ValueError: invalid literal for int() with base 10: 'some/other/media/dir/js/jquery.flot-0.6.min.js'
```



django-logdb / aggregation

Add log aggregate +

Select log aggregate to view



2010

Action:

<input type="checkbox"/>	Name	Module	Function name	Line number	Level	Last seen	Times seen
<input type="checkbox"/>	djangologdb.middleware	middleware	process_exception	13	Error	Feb. 7, 2010, 11:02 a.m.	1
<input type="checkbox"/>	django-logdb: root	views	index	18	Critical	Jan. 14, 2010, 6:10 p.m.	2
<input type="checkbox"/>	djangologdb.middleware	middleware	process_exception	15	Info	Jan. 14, 2010, 6:10 p.m.	1
<input type="checkbox"/>	root	views	index	18	Info	Jan. 14, 2010, 6:10 p.m.	7
<input type="checkbox"/>	root	views	index	18	Error	Jan. 4, 2010, 4:53 p.m.	3

5 log aggregates

Filter

By name

- All
- django-logdb: root
- djangologdb.middleware
- root

By level

- All
- Info
- Warning
- Debug
- Error
- Critical



django-logdb

- Logs (Http500) exceptions via middleware
- Shows JSON-powered graphs in Django admin
- Aggregates logs
- Performs actions based on log occurrences
- Go grab it:
 - `easy_install.djangologdb` or `pip install.djangologdb`
 - <http://github.com/joeribekker/django-logdb>