Rohypnol Documentation

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Rohypnol offers syntactic sugar to easily connect Django signals to cache keys deletion.

Requirements

Python 2	> 2.7
Python 3	>= 3.2
Django	>= 1.6

Installation

Install the `rohypnol` package:

```
pip install rohypnol
```

Make sure `rohypnol` is listed among your `INSTALLED_APPS`:

```
INSTALLED_APPS = [
    # [...]
    'rohypnol',
]
```

Usage

The code below will connect the built-in Django `post_save` signal to `cache.delete('article_list')` when the sender is an `Article` instance.

```python
from myapp.models import Article
from rohypnol.register import rohypnol

rohypnol.register(Article, 'article_list')
```

In your *urls.py* file:

```python
from rohypnol.register import connect_all_signals

urlpatterns = ...

connect_all_signals()
```

This is roughly equivalent to:

```python
from django.db.models.signals import post_save
from django.core.cache import cache

from myapp.models import Article

def delete_cache(key):
    cache.delete(key)

post_save.connect(delete_cache, sender=Article)
```

Actually the callback function is defined as a closure. Have a look at the `RohypnolRegister` class if interested.

Advanced usage

The example above is pretty trivial and, in fact, useless. But you can save yourself a lot of typing with this application by doing something like this:

```python
from myapp.models import Article, Paragraph, Category
from rohypnol import rohypnol

rohypnol.register((Article, Paragraph, Category),
                  ('article_list', 'top_articles'))
```

Basically, the register method accepts three arguments:

1. `models`, which can be a single model class or a list of models that will be considered as the *sender* of the signals.

2. `keys`, which can be a string or a list of strings. These will be the cache keys that are going to be deleted.

3. `signals`, which can be a signal instance or a list of signals. If none is specified, it defaults to built-in Django `post_save` of the models above.

A more complete example:

```python
from django.db.models.signals import post_save
from django.dispatch import Signal

custom_signal = Signal()

rohypnol.register((Article, Category, Paragraph),
                  ('article_list', 'top_articles'),
                  (post_save, custom_signal))
```

This will delete the cache fragments identified by the keys `'article_list'` and `'top_articles'` whenever a `post_save` or a `custom_signal` is sent by one of the listed models.

Note: As noted in Django documentation, the `models.py` is the best place to connect signals and you should do the same with `rohypnol.register` **if you are using Django < 1.7**.

Starting from that version, you should use the `ready()` method of your application configuration class. See the documentation for further explanation.

Also, it is fundamental to call the `connect_all_signals` method in your `urls.py`, because it is executed only once, after all you models have been loaded.

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