

Hablemos de Ruby



ILLUSTRATION BY SAM SPRATT

Pythomnic3k

Introducción a la computación distribuída.

Quién te conoce?

elCuervo

aka Bruno Aguirre

Qué esperar?

- Framework Web
- Comandos útiles
- Deploy a AppEngine

- ~~Framework Web~~
- ~~Comandos útiles~~
- ~~Deploy a AppEngine~~

**No está enfocado en
desarrollo web.**

Frameworks web

- Flask
- Django
- Tornado
- Twisted
- Web2py
- etc, etc, etc...

Qué es entonces?

Pythomnic3k

- Desarrollo de middlewares
- Multiprotocolo
- Recarga automática de código
- Multiplataforma
- Transaccional
- Sincrono / Asincrono
- Autodescubrimiento

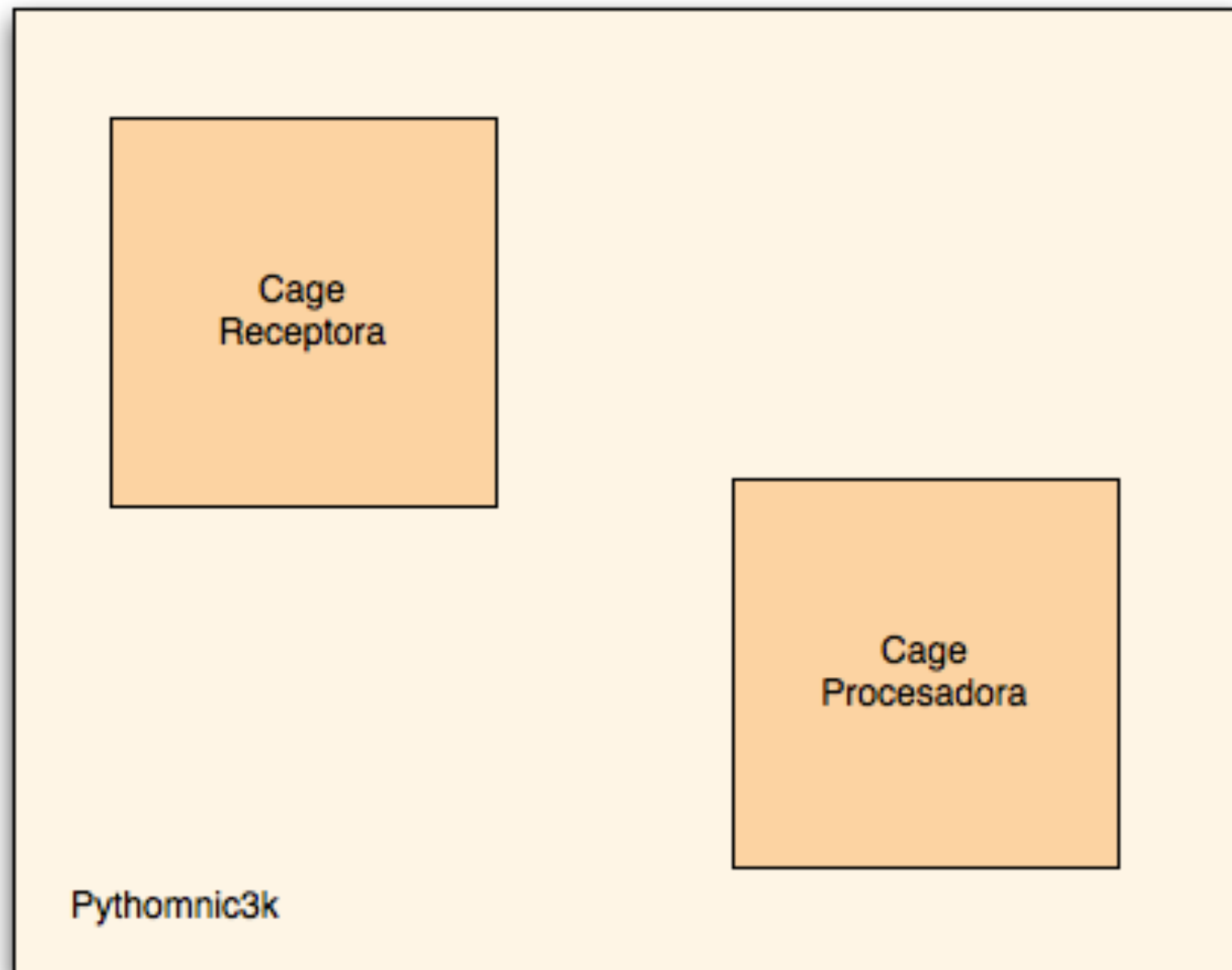


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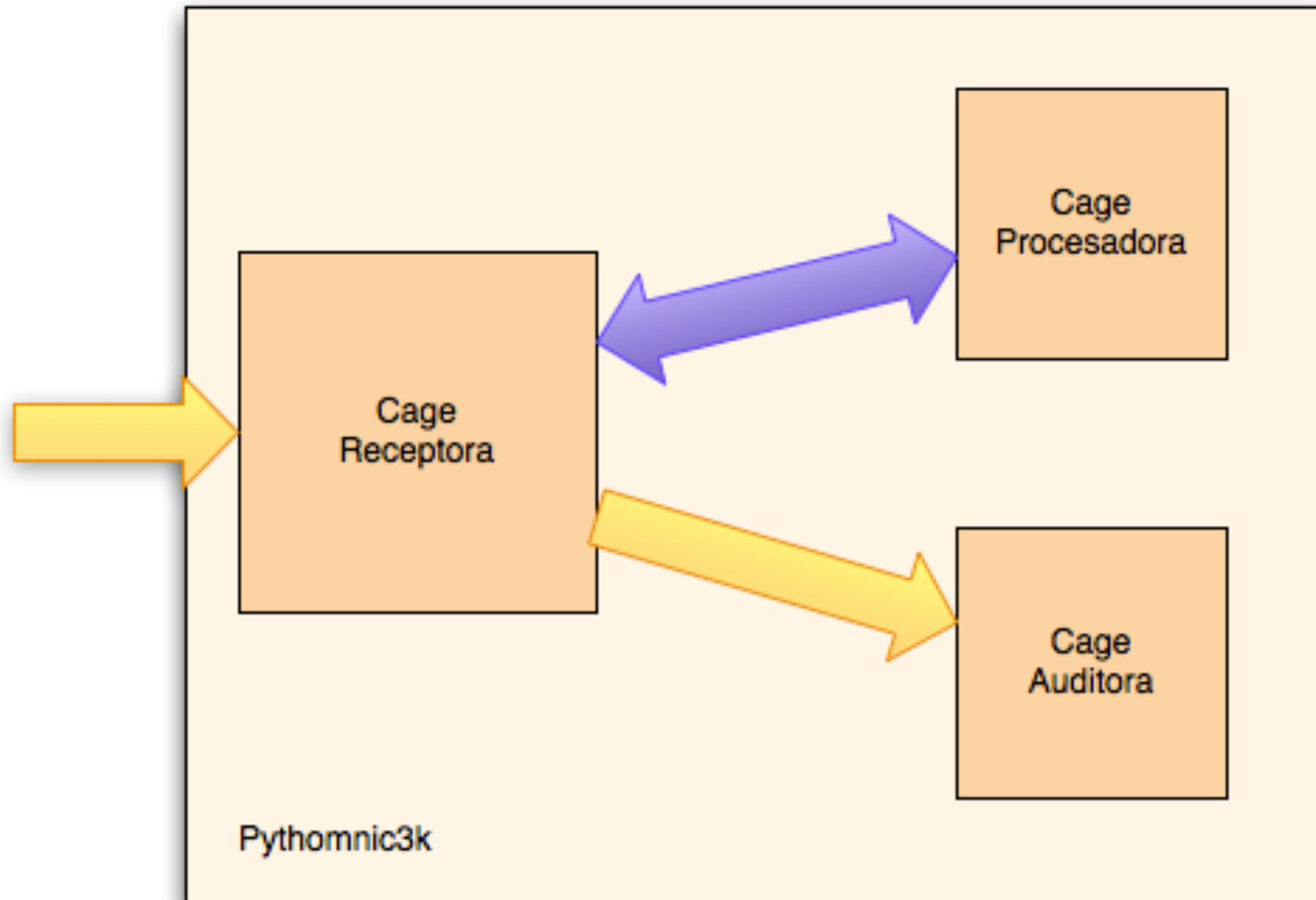
Sobre que hablaremos?

- Cages
- Distribución
- Redundancia
- Recarga
- Timeout
- Queues
- Tolerancia a fallas
- Recarga automatica
- Monitoreo
- Extensible

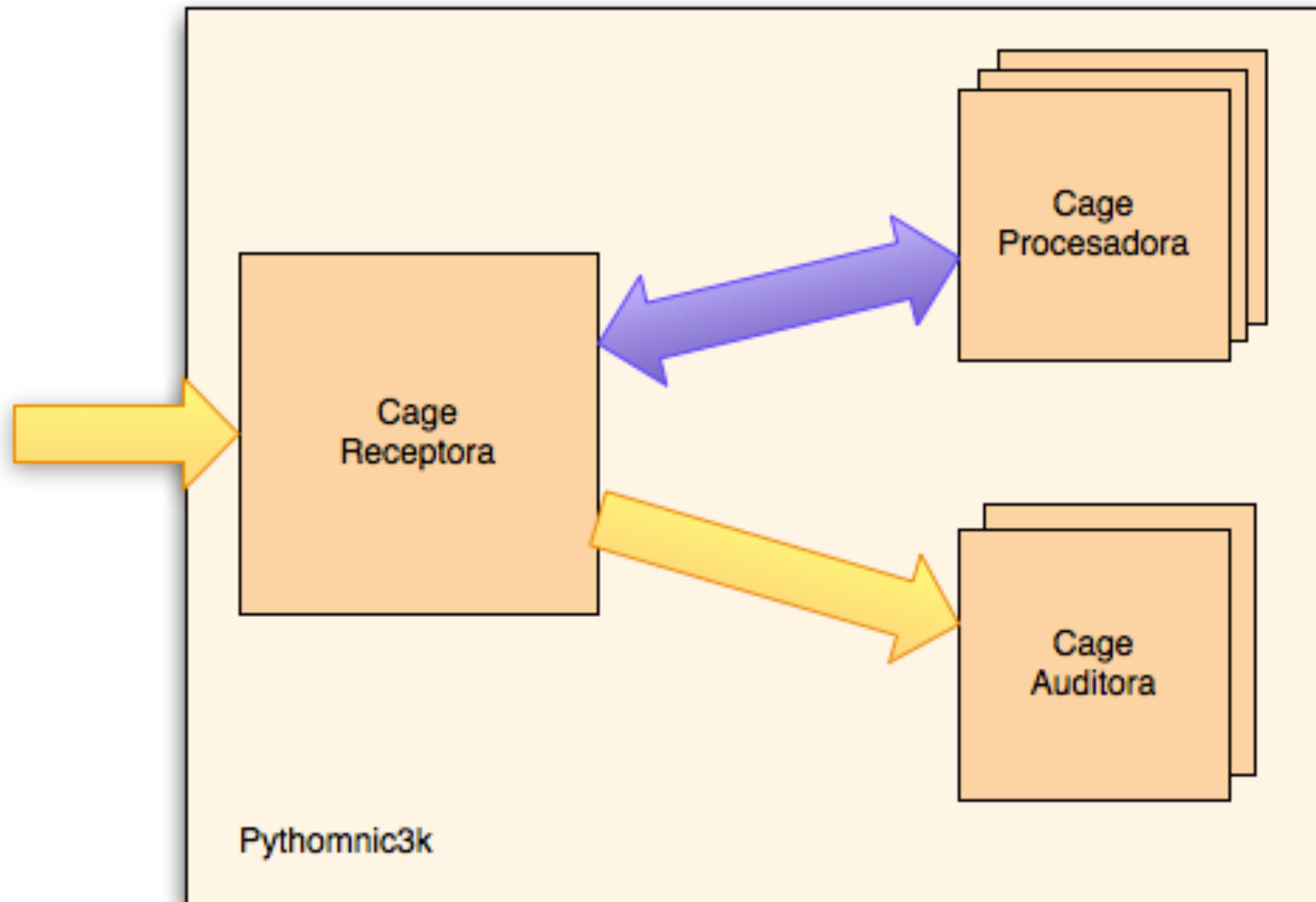
Cages



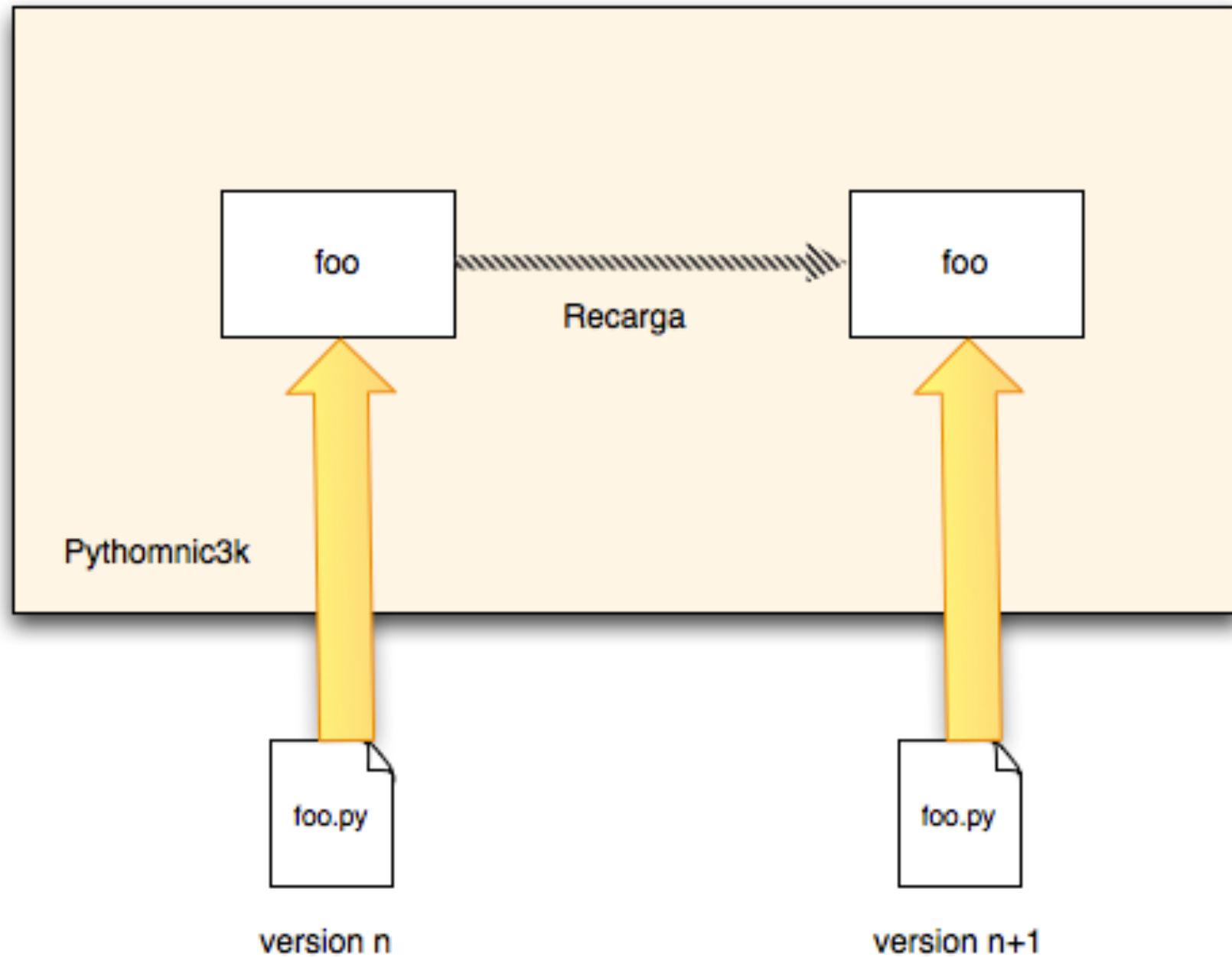
Distribución



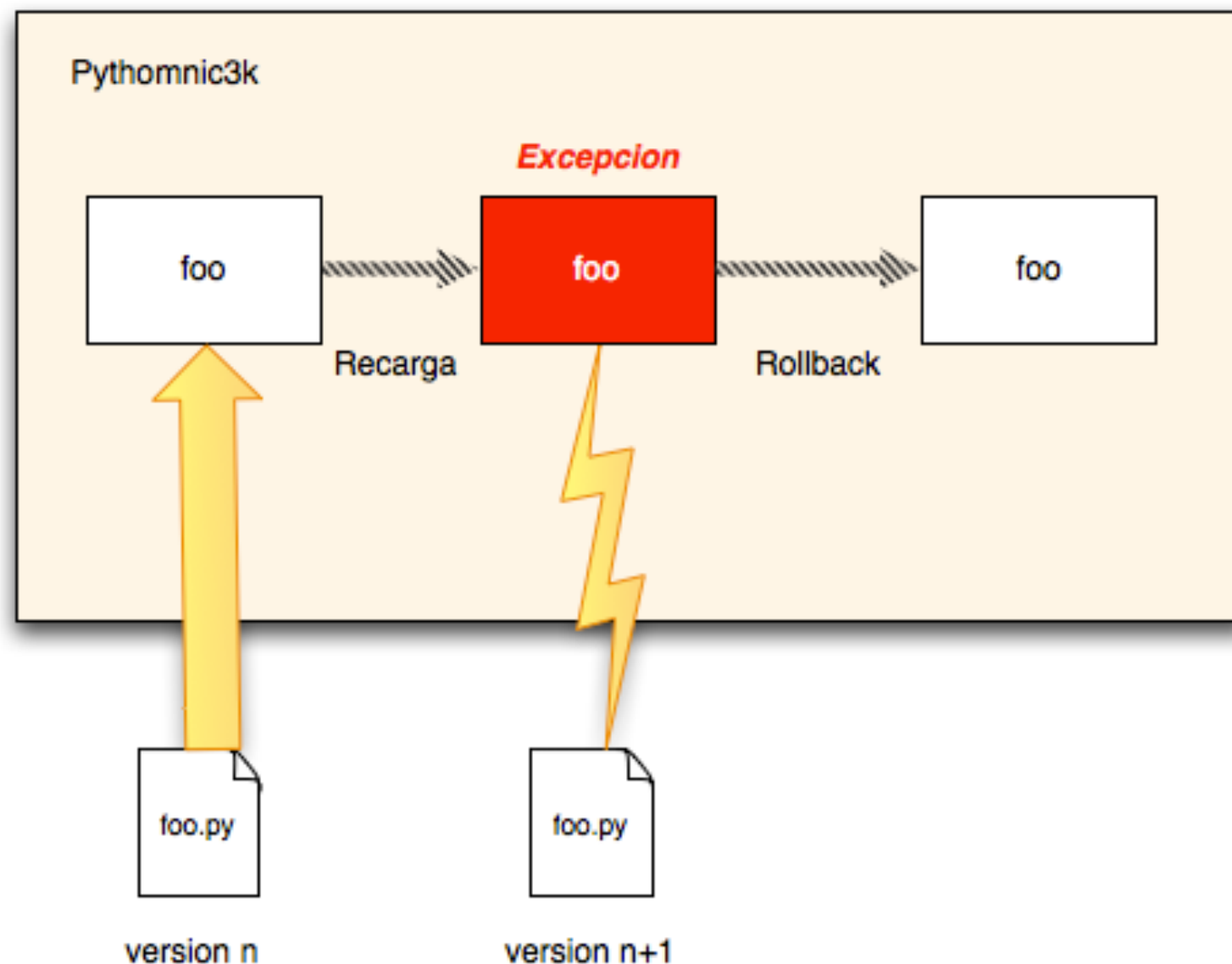
Redundancia



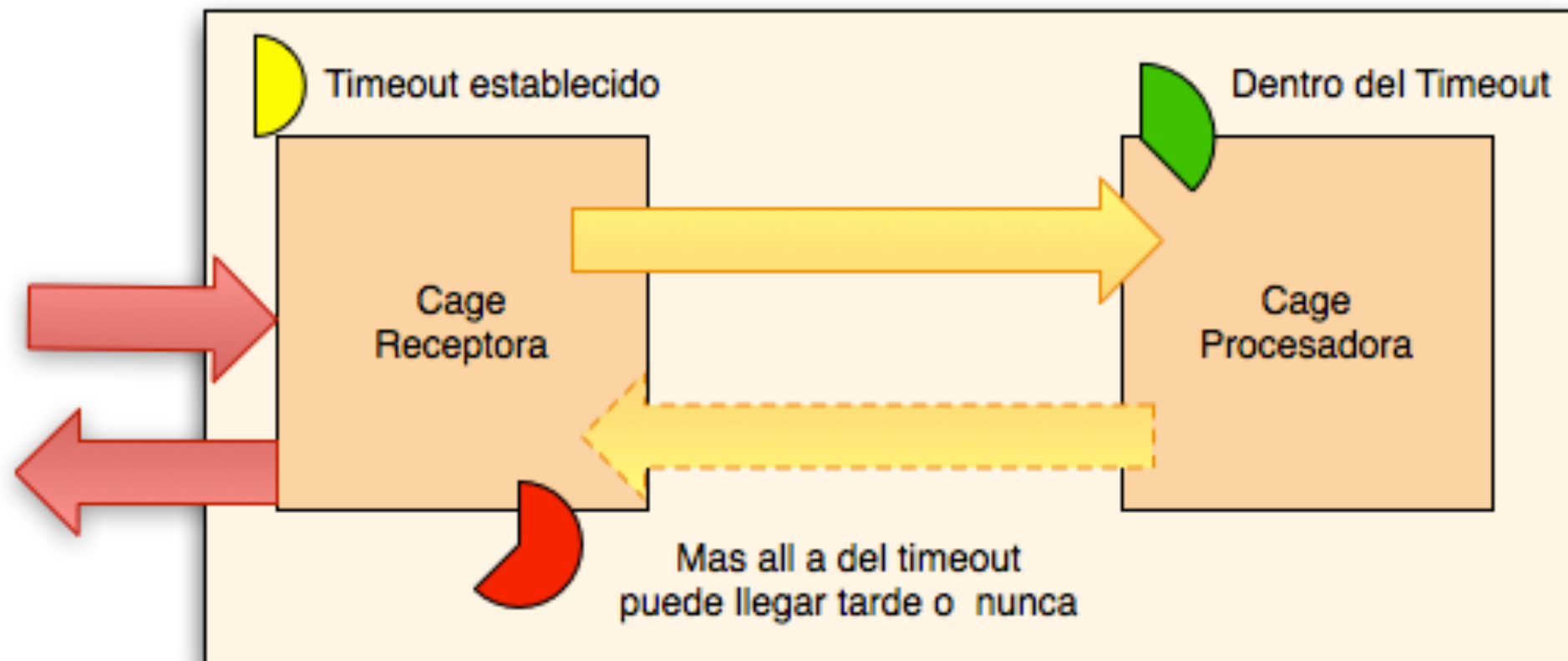
Recarga



Recarga cuando cosas malas pasan

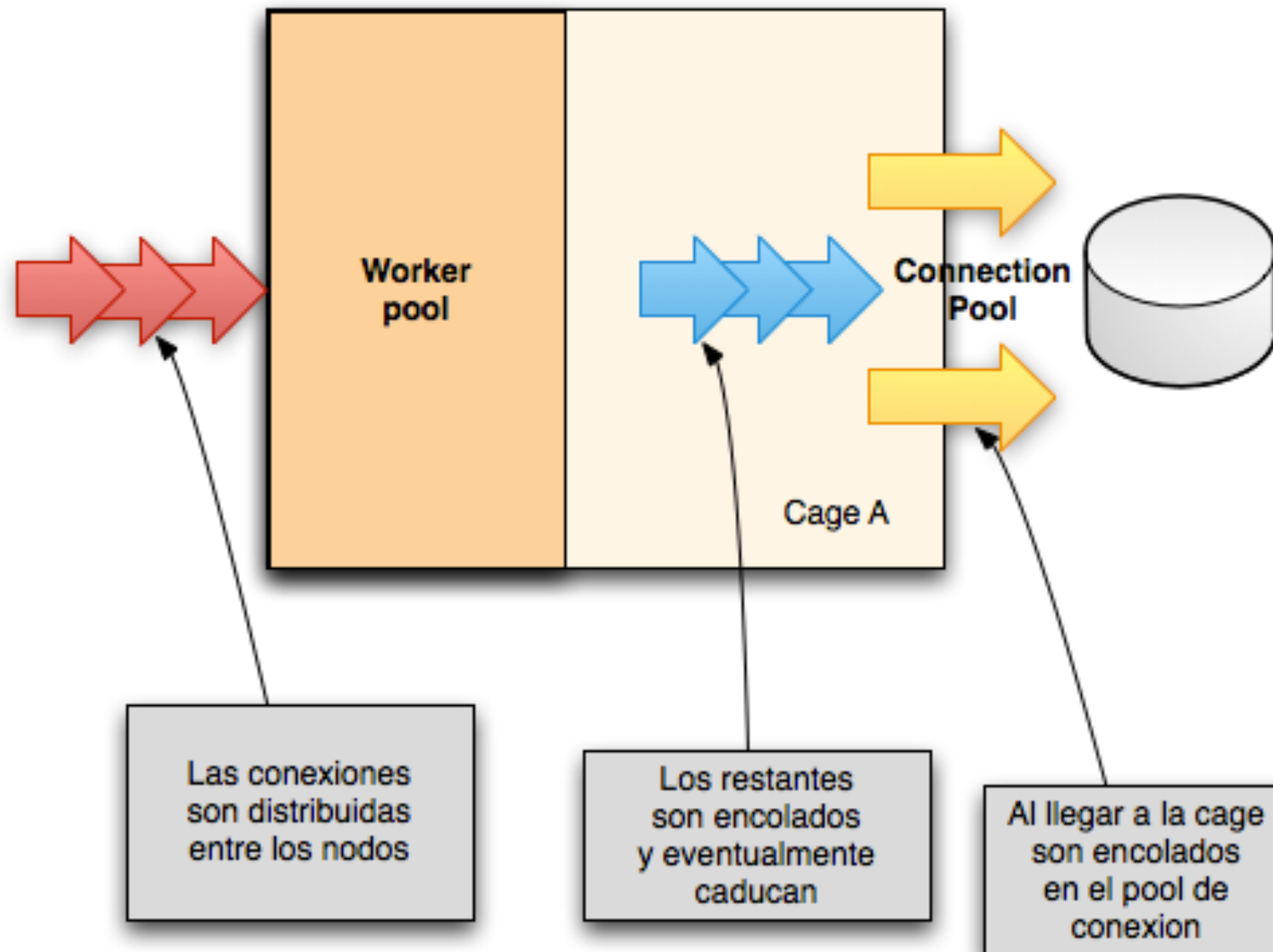


Timeout

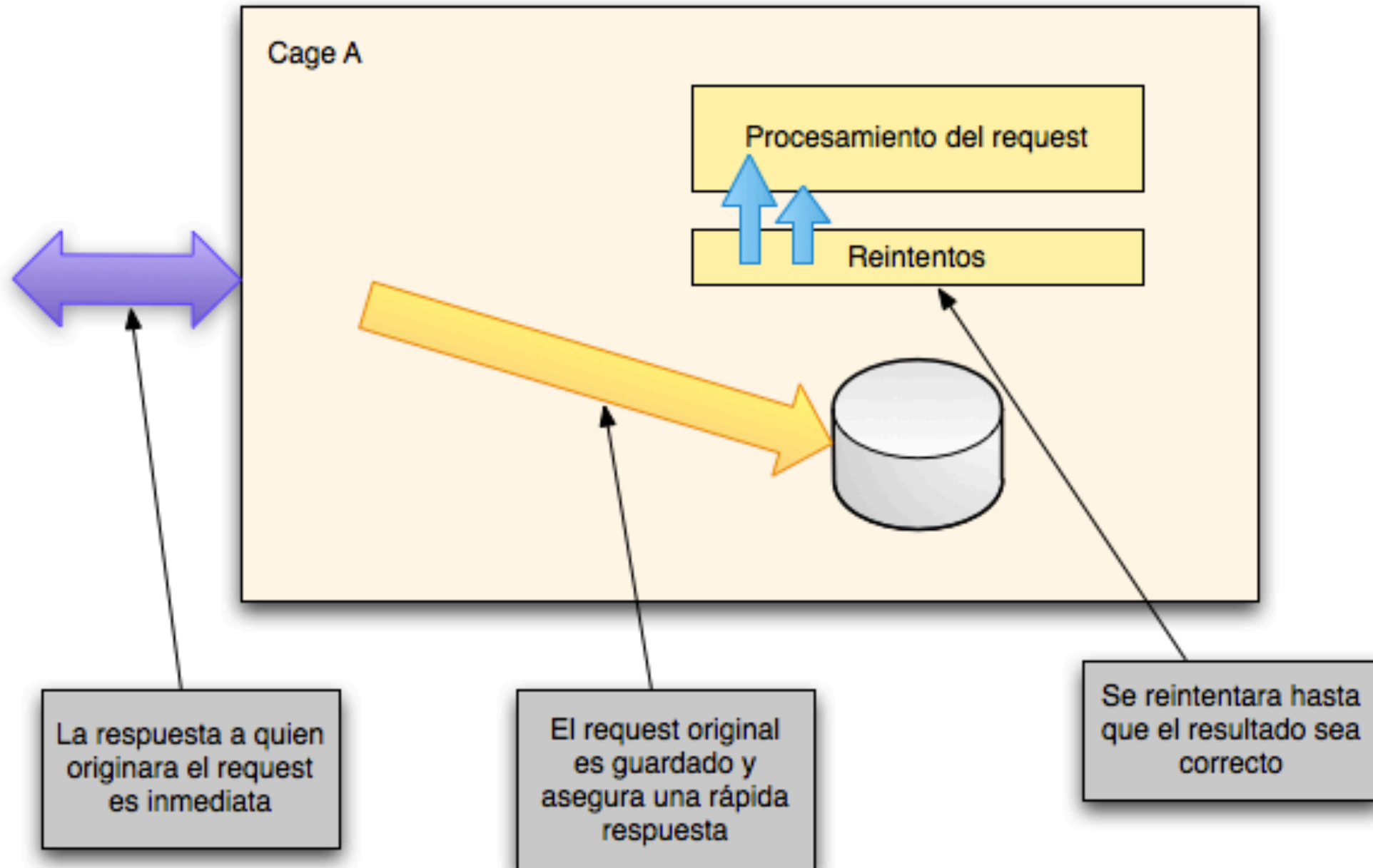


Se envía un mensaje de error por defecto cuando el deadline es alcanzado

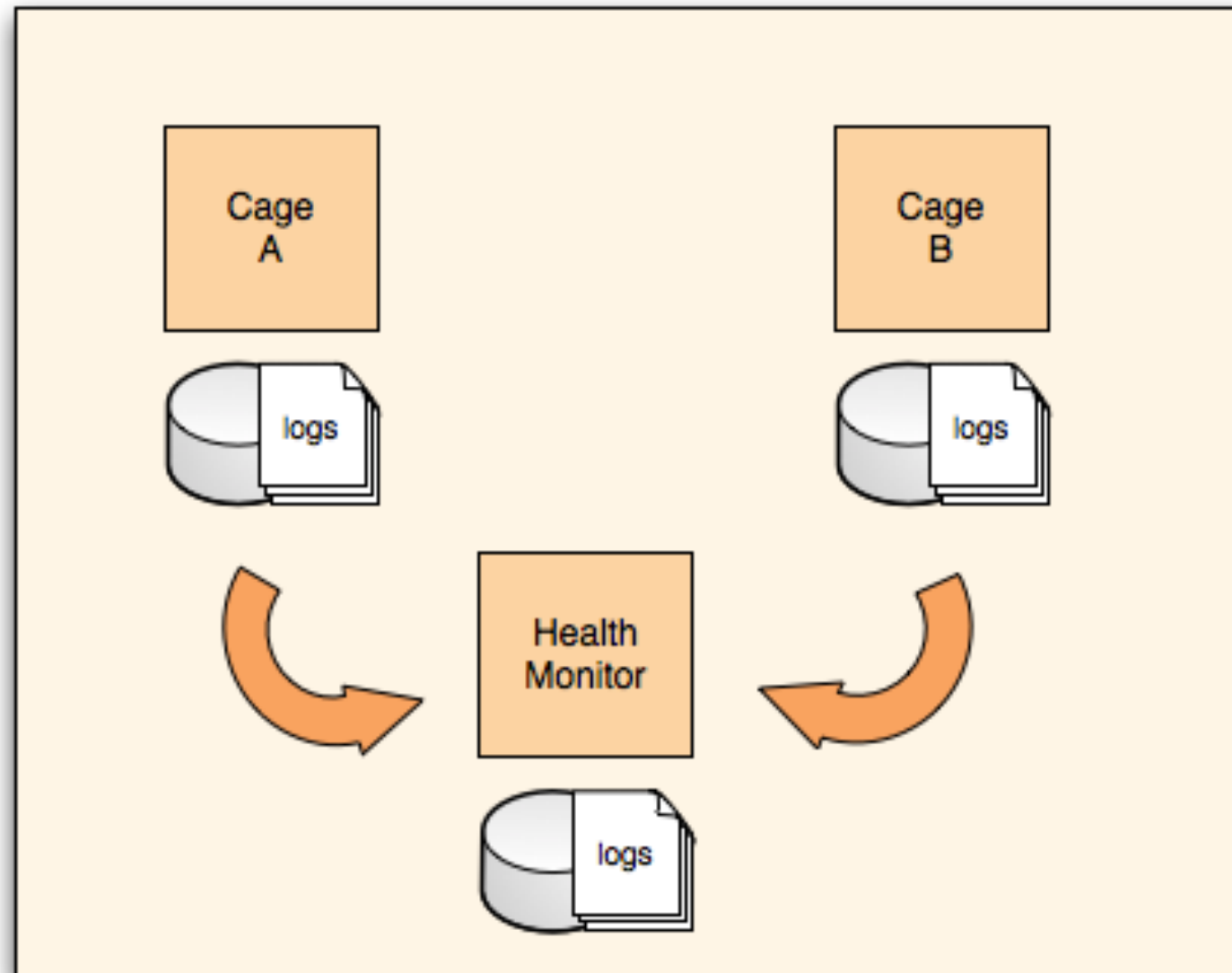
Queues



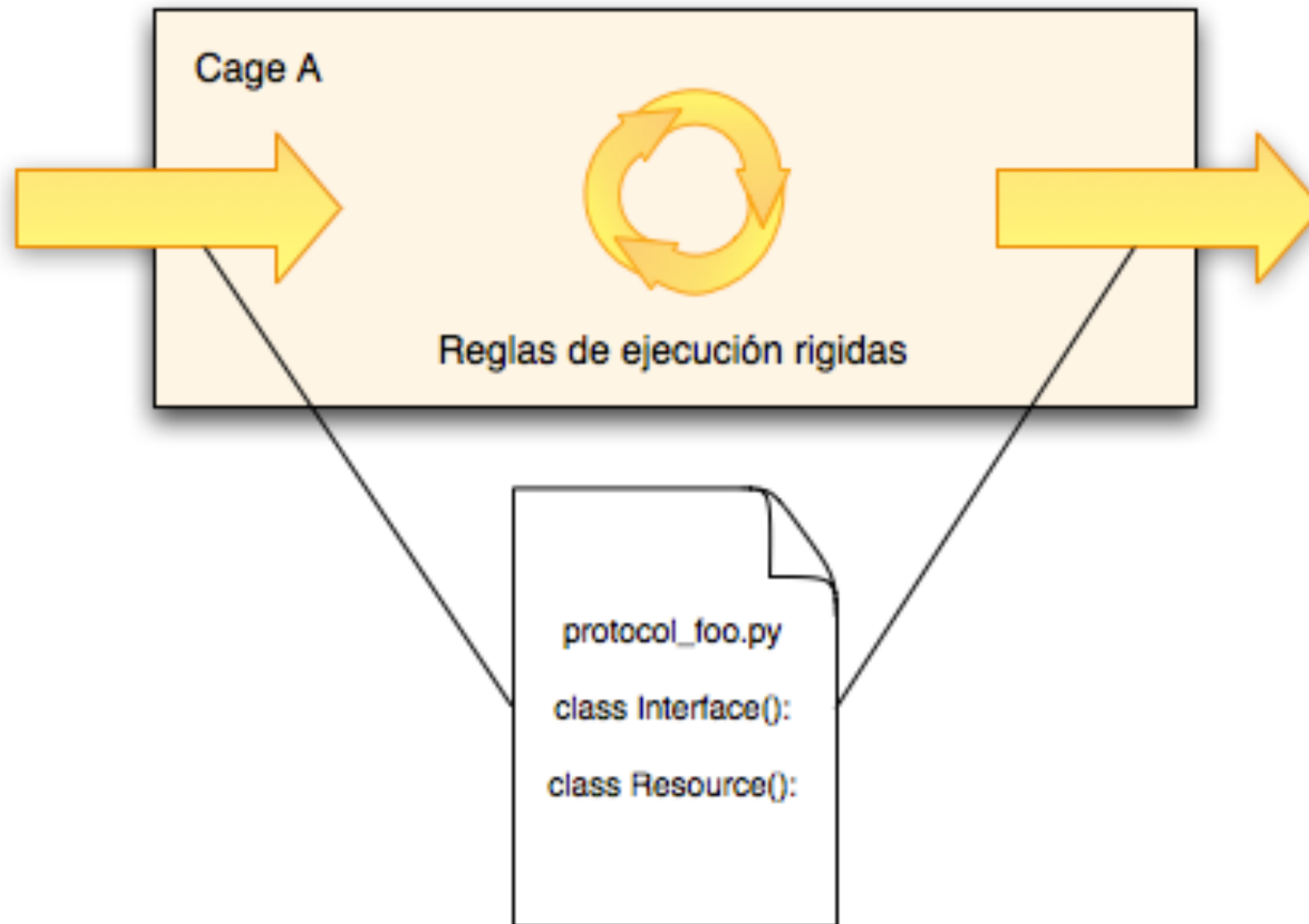
Tolerancia a Fallas



Monitoreo



Extensible



Protocolos por defecto

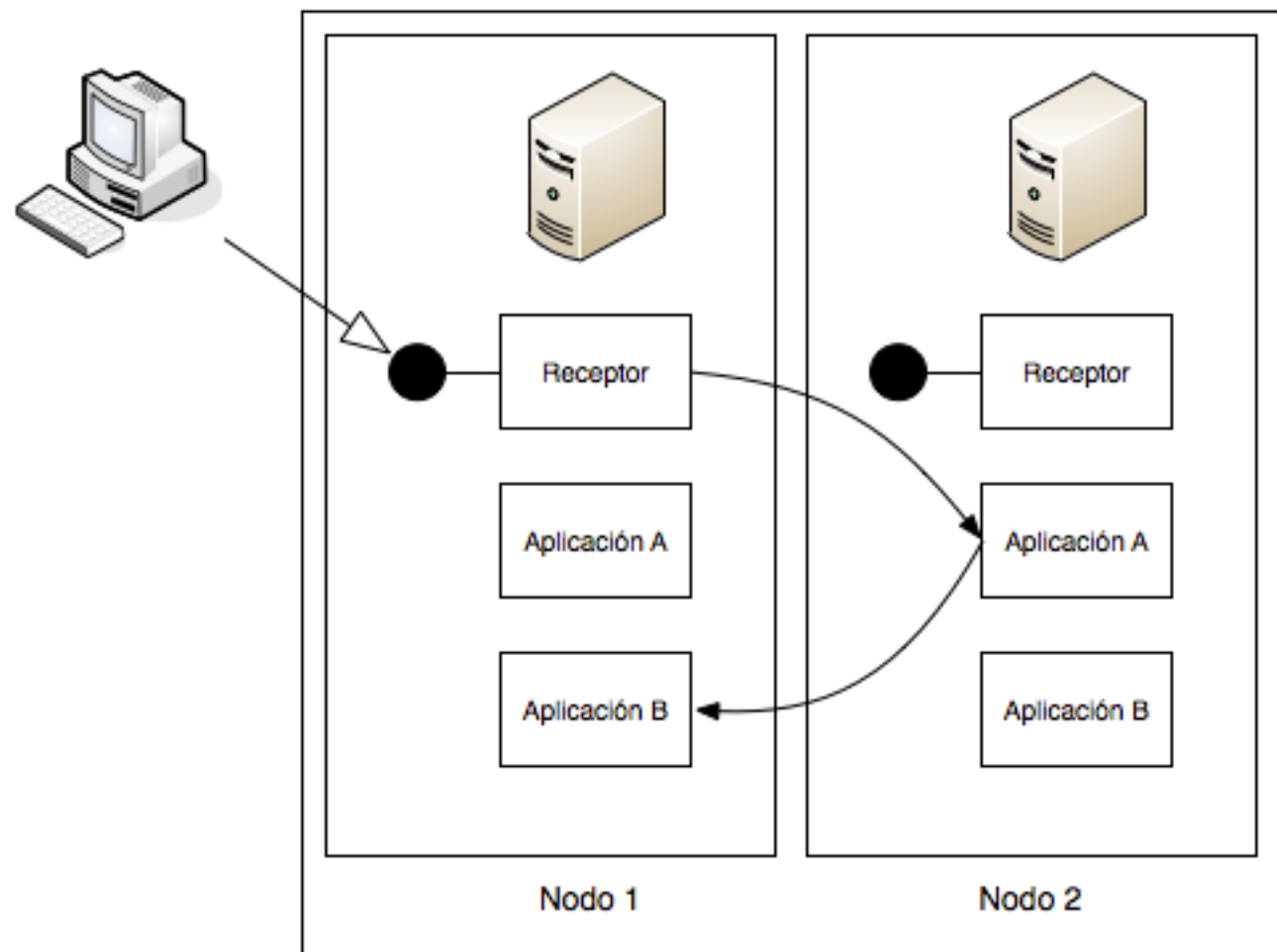
- HTTP(S)
- XMLRPC
- JMS
- EMAIL
- PostgreSQL
- Oracle
- MongoDB

SMPP

v3.4

Para qué lo usaría?

Escalabilidad Horizontal



Ejemplo

```
$ git clone https://github.com/elcuervo/pythomnic3k.git  
Cloning into pythomnic3k...  
remote: Counting objects: 72, done.  
remote: Compressing objects: 100% (63/63), done.  
remote: Total 72 (delta 7), reused 72 (delta 7)  
Unpacking objects: 100% (72/72), done.
```



```
$ cd pythomnic3k
```

```
pythomnic3k $ ls -la
```

```
README
```

```
cages
```

```
lib
```

```
startup.py
```

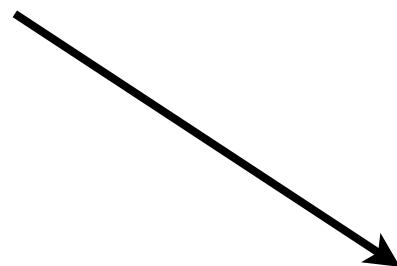
```
pythomnic3k $ cd cages
```

```
cages $ ls -a
```

```
.
```

```
..
```

```
.shared
```



Recursos compartidos
entre las cages

```
cages $ git clone git://github.com/elcuervo/pythomnic3k-  
sample-webserver.git sample
```

```
Cloning into sample...
```

```
remote: Counting objects: 18, done.
```

```
remote: Compressing objects: 100% (13/13), done.
```

```
remote: Total 18 (delta 3), reused 17 (delta 2)
```

```
Receiving objects: 100% (18/18), 4.49 KiB, done.
```

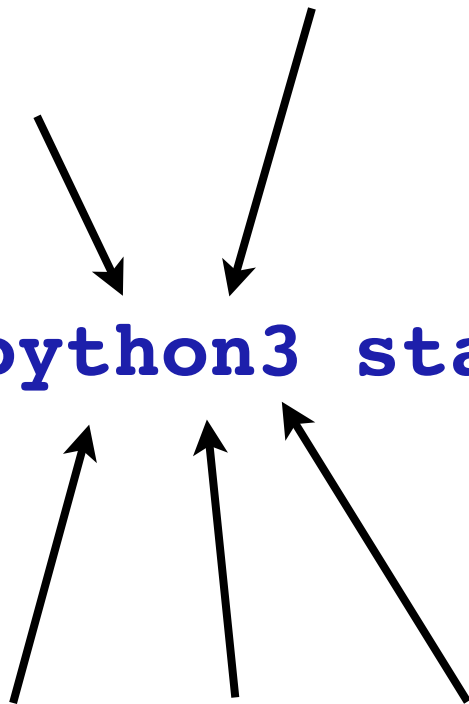
```
Resolving deltas: 100% (3/3), done.
```

```
cages $ ls
```

```
sample
```

cages \$ cd ..

pythomnic3k \$ **python3** startup.py sample



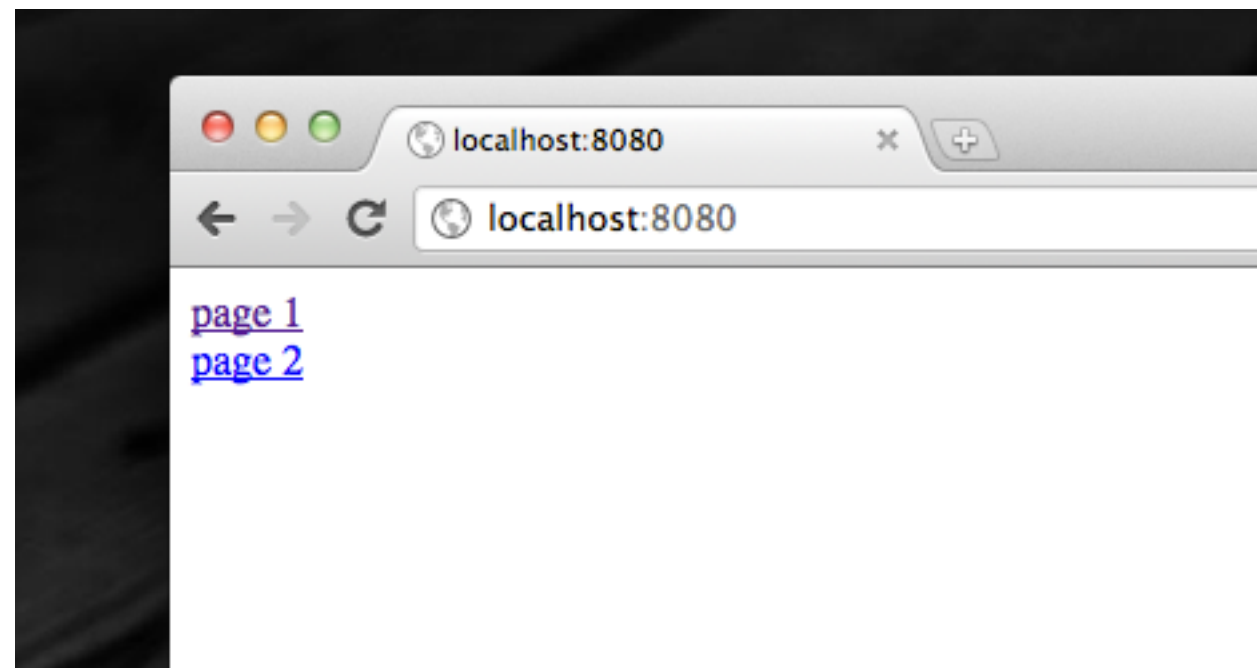
Python3 desde RC

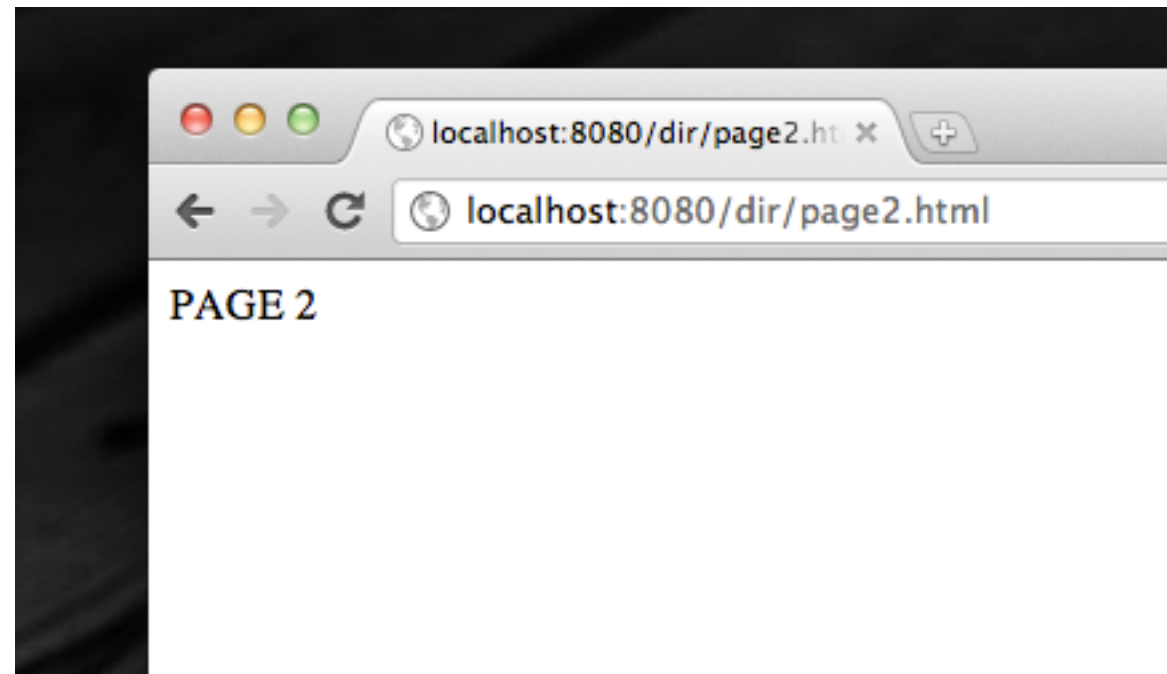


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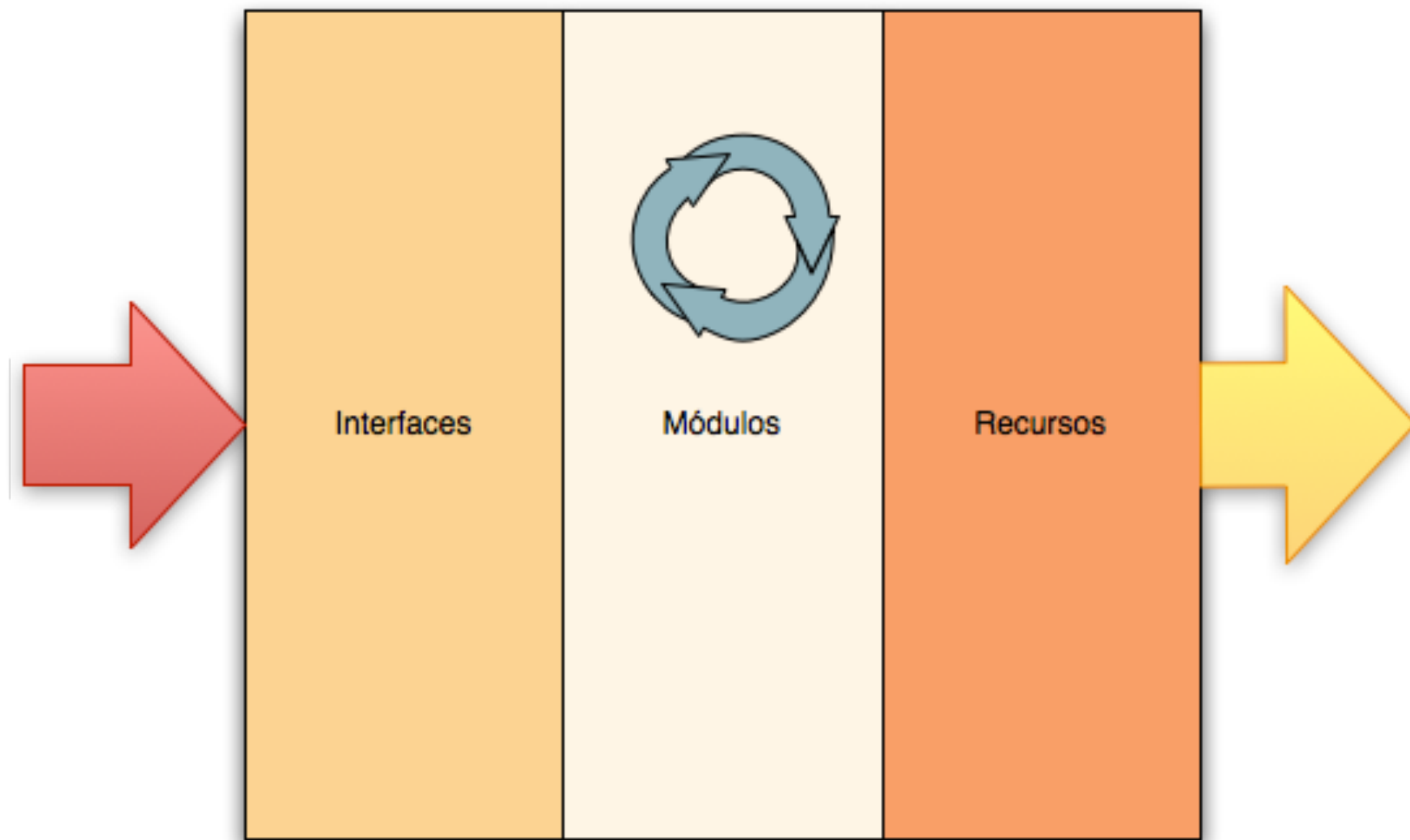
```
cages $ cd ..
```

```
pythomnic3k $ python3 startup.py sample
```





Composición de una cage



Composición de los módulos

```
__all__ = [ "method" ]
```

 methods accessible with pmnc calls

```
def method(...):
```

```
...
```

```
# EOF
```

Comunicación entre módulos

bar.py

```
result = pmnc.foo.make_everything_ok()
```

foo.py

```
__all__ = ["make_everything_ok"]
```

```
def make_everything_ok():  
    # something
```

```
# EOF
```

Recursos transaccionales

```
xa = pmnc.transaction.create()  
xa.resource1.execute(...)  
xa.resource2.execute(...)  
result1, result2 = xa.execute()
```

Sigue?

- github.com/elcuervo
- twitter.com/elcuervocorax
- elcuervo.co

