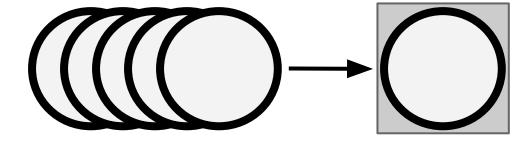
RQ w praktyce

Co jest fajne? Z czy mogą być problemy...











Zlecić zadanie do wykonania

- Zlecić zadanie do wykonania
- Wykonać zadanie WORKER

- Zlecić zadanie do wykonania
- Wykonać zadanie WORKER
- Obsłużyć błędy

Zabawa z zadaniami

```
from redis import Redis
from rq import Queue
def foo(a, b):
    return "%s - %s" % (a, b)
q = Queue(connection=Redis())
job = q.enqueue(foo, "ala", "ola")
job.result
```

Zabawa z zadaniami

```
from rq.decorators import job

@job("queue name", connection=my_conn)
def foo(a, b):
    return "%s - %s" % (a, b)

foo.delay("ola", "ala")
```

Zabawa z zadaniami

```
# v0.4.0
queue = Queue()
calculate_job = queue.enqueue(
    calculate_something,
queue.enqueue(
    send_results,
    depends_on=calculate_job,
```

Timeout, TTL

- timeout
 - JobTimeoutException
 - o timeout a oczekiwanie na wykonanie...
- result_ttl

Timeout, TTL

```
queue.encueue_call(
    func=func_to_call,
    args=tuple(),
    kwargs=dict(),
    timeout=60,
    result_ttl=60,
)
```

Worker

```
from redis import Redis
from rq import Queue, Connection, Worker

connection = Redis()
with Connection(connection):
    worker = Worker(Queue(name="abc"))
    worker.work()
```

META

```
def foo():
    job = get_current_job()
    job.meta.setdefault(
        "messages", [],
     ).append("Message 1")
     job.save()
```

META

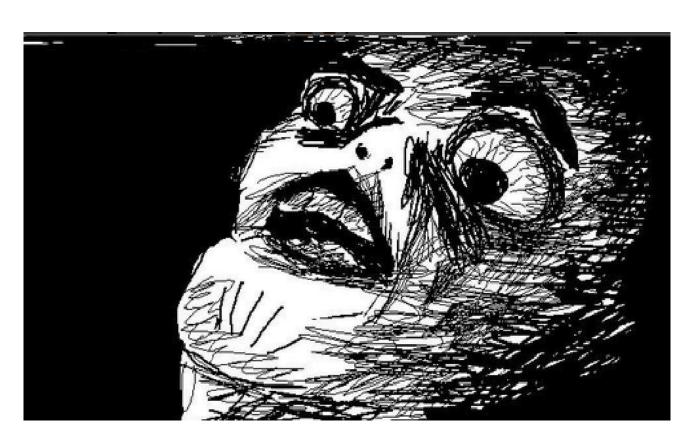
```
q = Queue(Redis())
job = q.enqueue(foo)
# wait...
job.meta # => {"messages": ["Message 1"]}
job.meta.setdefault("messages", []).append(
    "Message 2",
job.save()
```

Kolejka failed

- Kolejka failed
- Własna obsługa błędów

```
def custom_handler(
    job,
    exc_type,
    exc_value,
    traceback
    # do something
    return False # stop processing
```

```
with Connection():
    worker = Worker(Queue())
    worker.push_exc_handler(custom_handler)
    worker.work()
```



```
# worker core
while True:
    # . . .
    job = self.dequeue_job_and_maintain_ttl(...)
    # . . .
    self.heartbeat((job.timeout or 180) + 60)
    self.fork_and_perform_job(job)
    self.heartbeat()
    # . . .
```

```
# worker core
def heartbeat(self, timeout=0):
    timeout = max(timeout, self.default_worker_ttl)
    self.connection.expire(self.key, timeout)
```

```
#!!!
try:
    # do something
except:
    pass
```

Dziękuję za uwagę.

http://python-rq.org/ https://github.com/andrzej-jankowski/rq-presentation