



progress engine  
we will develop it

#tceh

2016

# Врубиться в Ruby

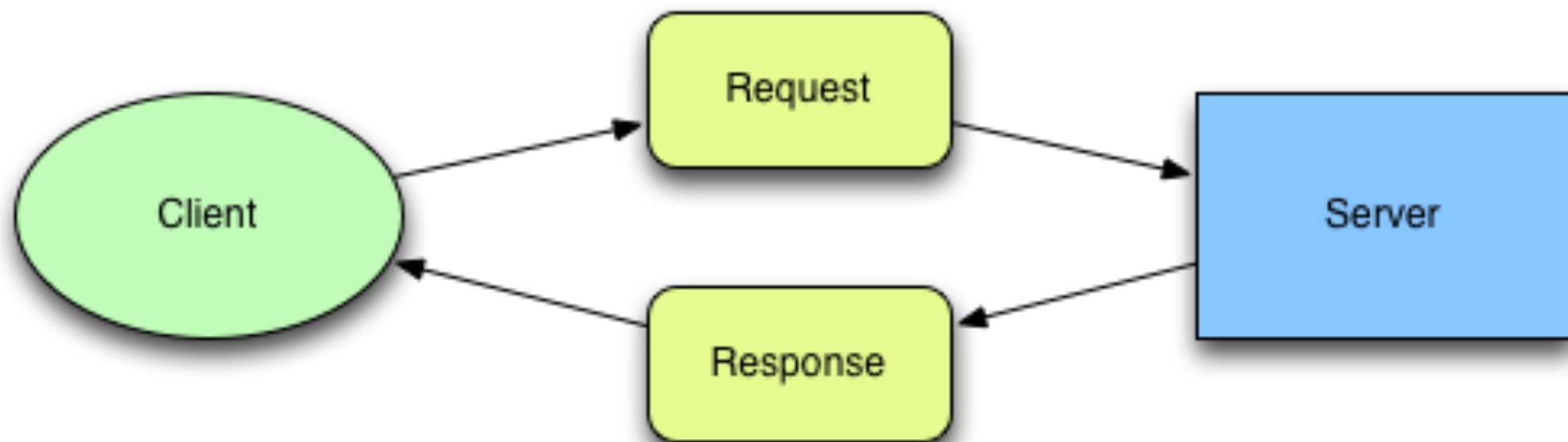
Лекция 15

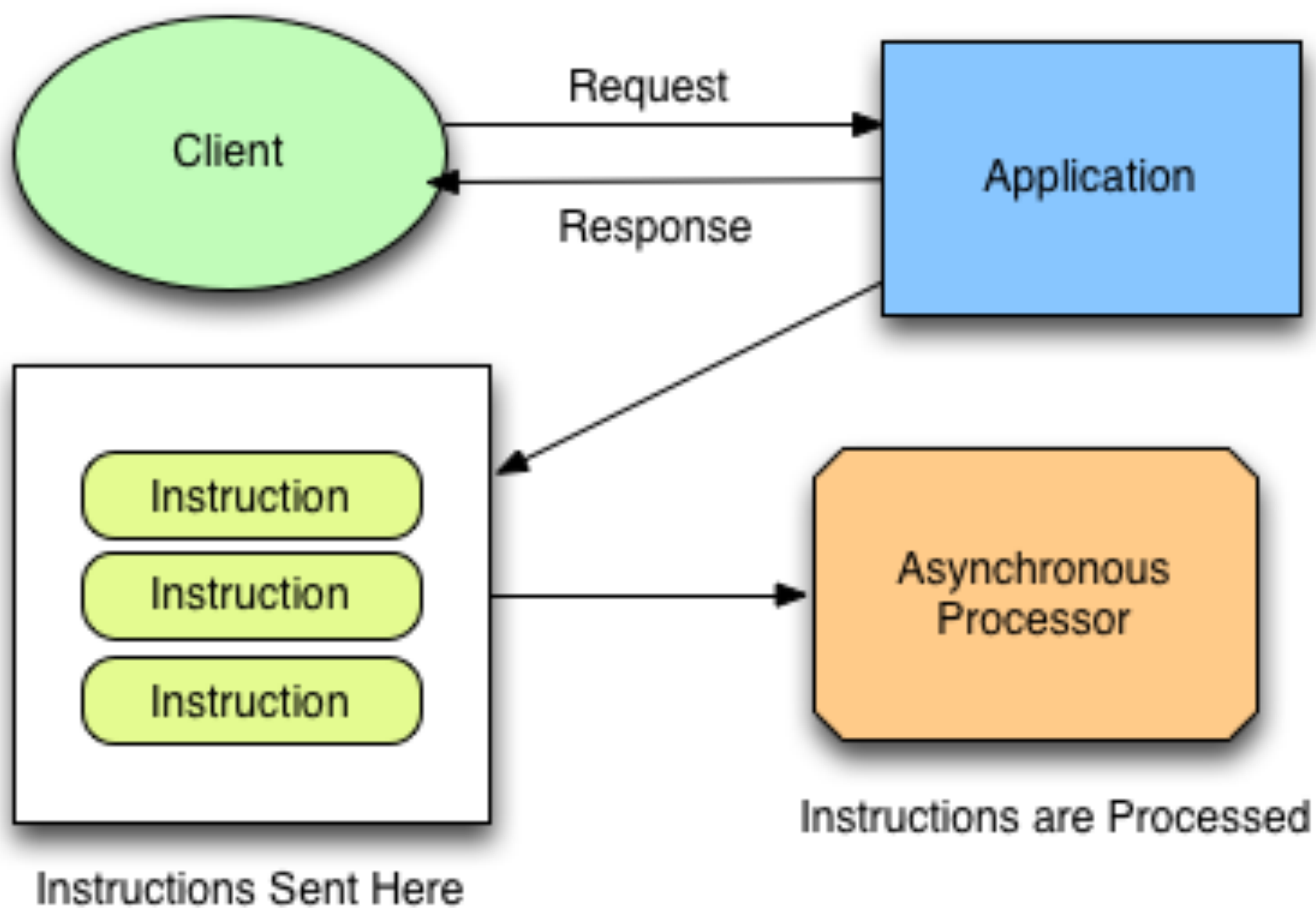
# Лекция 15

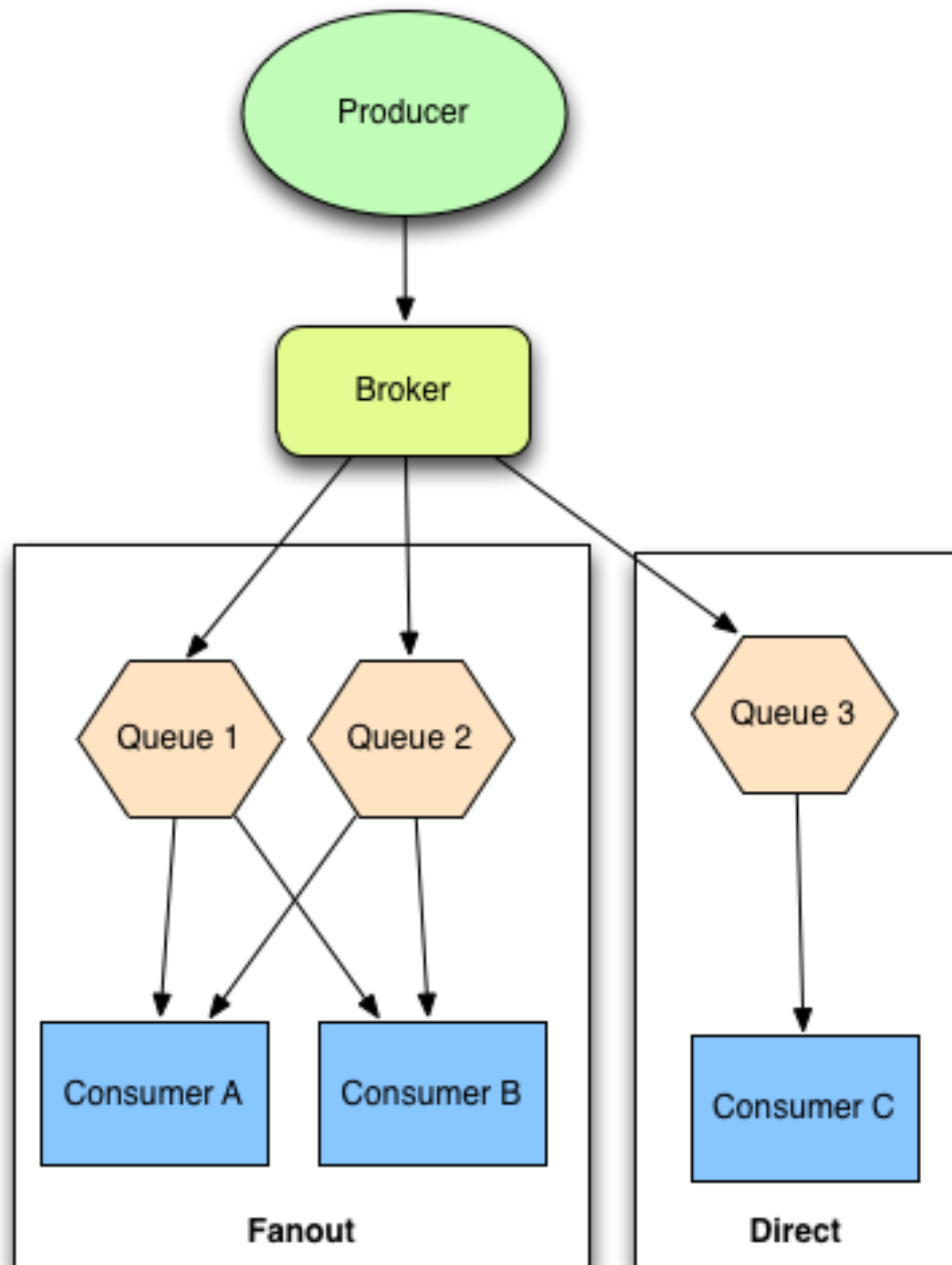


- Очереди и для чего они нужны
- DelayedJob, Sidekiq и другие
- ActiveJob
- Whenever gem

Sync, async and queues







Библиотеки

# Delayed Job

[https://github.com/collectiveidea/delayed\\_job](https://github.com/collectiveidea/delayed_job)



# Delayed Job

# without delayed\_job

**@user.activate!(@device)**

# with delayed\_job

**@user.delay.activate!(@device)**

# with delayed\_job running at a specific time

**Notifier.delay(run\_at: 5.minutes.from\_now).signup(@user)**

# Delayed Job

**RAILS\_ENV=production bin/delayed\_job -n 2 start**

**RAILS\_ENV=production bin/delayed\_job stop**

# Sidekiq

<http://sidekiq.org>

# Sidekiq

Version	Latency	Garbage created for 10,000 jobs	Time to process 100,000 jobs	Throughput
Sidekiq 4.0.0	10ms	151 MB	22 sec	<b>4500 jobs/sec</b>
Sidekiq 3.5.1	22ms	1257 MB	125 sec	800 jobs/sec
Resque 1.25.2	-	-	420 sec	240 jobs/sec
DelayedJob 4.1.1	-	-	465 sec	215 jobs/sec

# Sidekiq

Sidekiq Pro  active

Dashboard

Busy

Queues

Retries

Scheduled

Dead

Batches

27,173,067

Processed

1,120,235

Failed

0

Busy

0

Enqueued

4

Retries

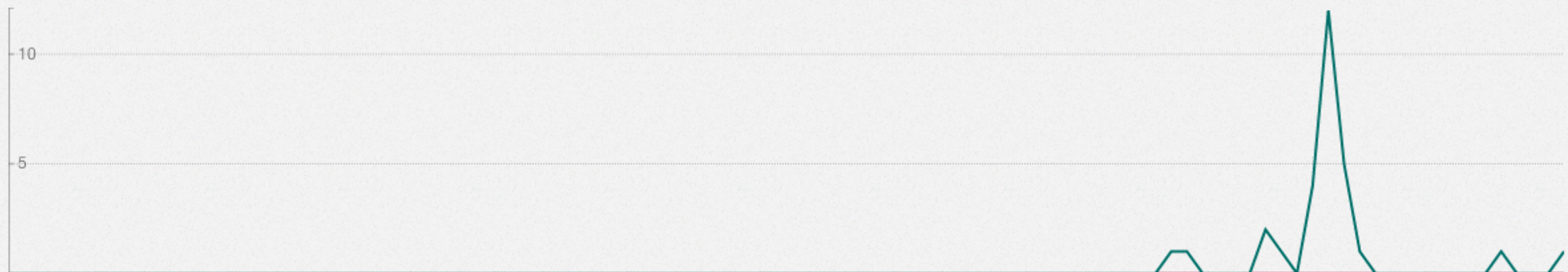
3

Scheduled

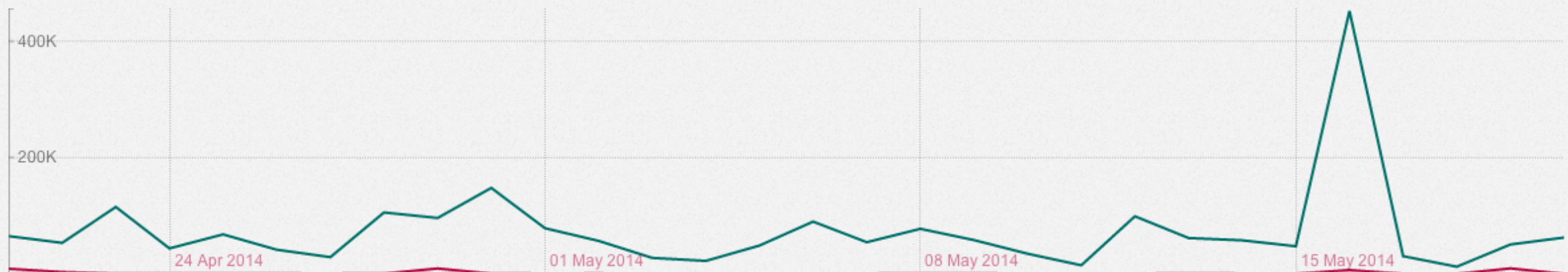
98

Dead

## Dashboard



History [1 week](#) [1 month](#) [3 months](#) [6 months](#)



Redis

81

Uptime (days)

109

Connections

13.21M

Memory Usage

180.40M

Peak Memory Usage

# Sidekiq

```
class HardWorker  
  include Sidekiq::Worker  
  
  def perform(name, count)  
    # do something  
  end  
  
end
```

# Sidekiq

```
HardWorker.perform_async('bob', 5)
```

# Sidekiq

bundle exec sidekiq



# Resque

<https://github.com/resque/resque>

Active Job

**\$ rails g job HardWork**

invoke test\_unit

create test/jobs/hard\_work\_job\_test.rb

create app/jobs/hard\_work\_job.rb

```
class HardWorkJob < ActiveJob::Base
  queue_as :default

  def perform(*args)
    # Do something later
  end
end
```

HardWorkJob.**perform\_later** @something

```
# config/application.rb
module YourApp
  class Application < Rails::Application
    # Be sure to have the adapter's gem in your Gemfile
    # and follow the adapter's specific installation
    # and deployment instructions.

    config.active_job.queue_adapter = :sidekiq
  end
end
```

# Callbacks

- `before_enqueue`
- `around_enqueue`
- `after_enqueue`
- `before_perform`
- `around_perform`
- `after_perform`

# Callbacks

```
class HardWorkJob < ApplicationJob
  queue_as :default

  before_enqueue do |job|
    # Do something with the job instance
  end

  around_perform do |job, block|
    # Do something before perform
    block.call
    # Do something after perform
  end

  def perform
    # Do something later
  end
end
```



Практика

# Вопросы?

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