

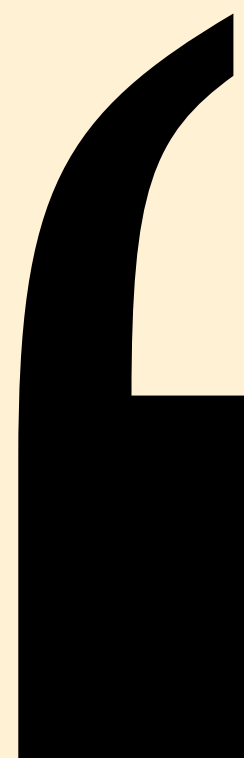
IMPROVING PERFORMANCE

of iphone.news.com.au with Rails 2.1

A large orange circle is positioned in the bottom right corner of the slide, partially overlapping the text 'AR'.

AR

TIM
LUCAS



AGENCY RAINFORD

THE H.O.P.



THE H.O.P.



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Rudd's petrol cop resigns



THE man tasked by Kevin Rudd with keeping the petrol companies honest and monitoring pump prices has quit after five months in the job.

13 comment(s) about this story

Proper burials for Diggers at Fromelles




THE remains of Australian soldiers buried in mass graves at Fromelles in France in 1916 are to be exhumed and given proper burials.

Sydney Weather

6C - 19C
Fine. Mostly sunny.

Tomorrow
11C - 20C

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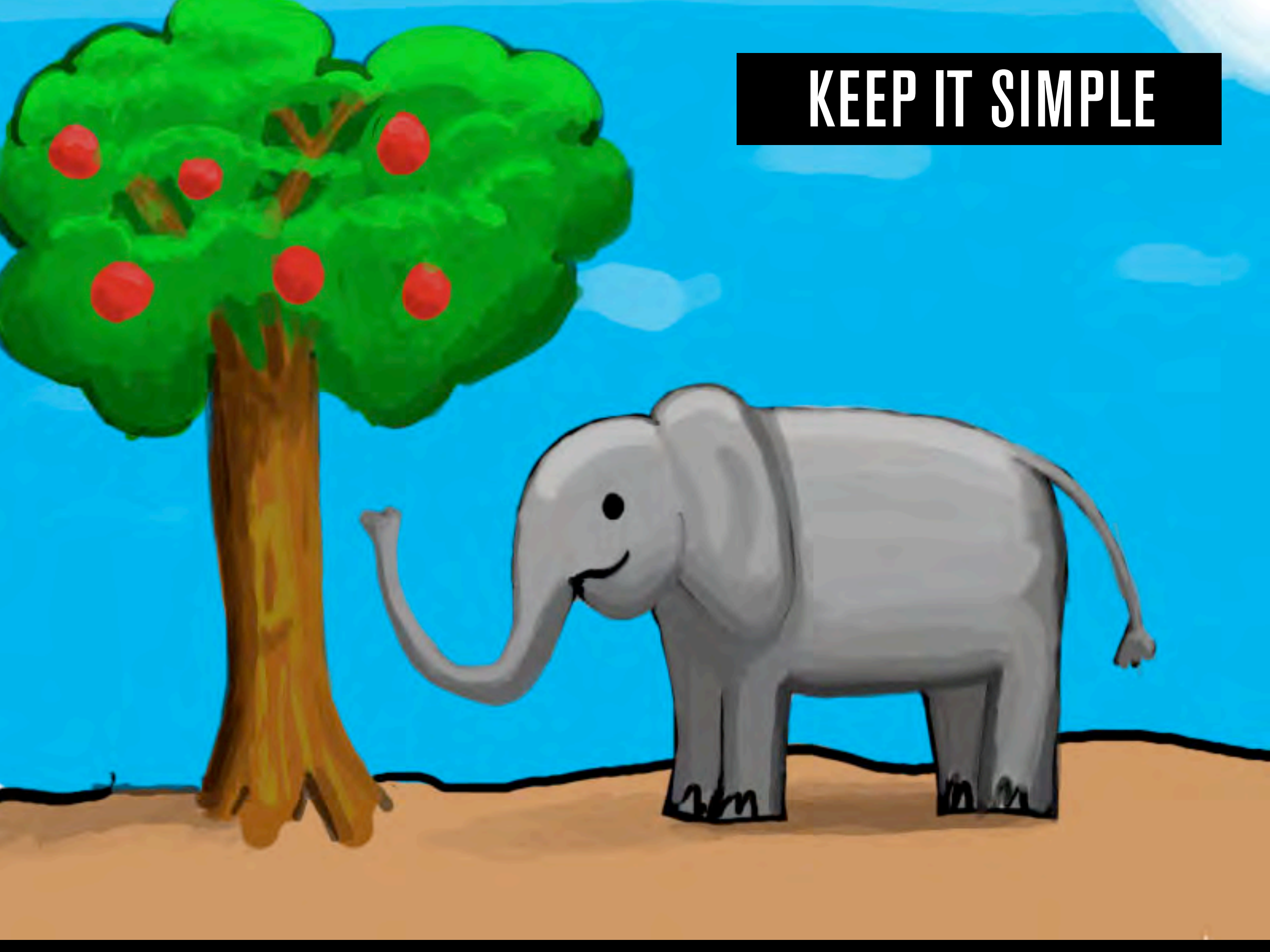


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KEEP IT SIMPLE



INITIAL PLANNING
IMPROVING PERFORMANCE
MAINTENANCE

INITIAL PLANNING FETCHING *&* PARSING

FETCHING & PARSING

FETCHING & PARSING

Fetching feeds

FETCHING & PARSING

Fetching feeds

Parsing feeds

FETCHING & PARSING

Fetching feeds

Parsing feeds

Fetching images

FETCHING & PARSING

Fetching feeds

Parsing feeds

Fetching images

Resizing images

RAKE TASKS

RAKE TASKS

Doesn't irritate your mongrels

RAKE TASKS

Doesn't irritate your mongrels

Eases provisioning

RAKE TASKS

Doesn't irritate your mongrels

Eases provisioning

Short-lived processes

INITIAL PLANNING

SERVING WEB REQUESTS

CLIENT STATE

CLIENT STATE

No Rails session

CLIENT STATE

No Rails session

Hand-baked cookies

THE HOME PAGE

THE HOME PAGE

64 customisable news sections

THE HOME PAGE

64 customisable news sections

5 recent stories per section

THE HOME PAGE

64 customisable news sections

5 recent stories per section

Customisable position of sections

THE HOME PAGE

64 customisable news sections

5 recent stories per section

Customisable position of sections

Sections constantly expiring

THE HOME PAGE

64 customisable news sections

5 recent stories per section

Customisable position of sections

Sections constantly expiring

Each section expires at different times

STEP 1. LIMIT THEIR OPTIONS

STEP 1. LIMIT THEIR OPTIONS

Maximum 8 feeds

FIND GRANULAR COMMONALITIES

FIND GRANULAR COMMONALITIES

Some people have the same feeds

FIND GRANULAR COMMONALITIES

Some people have the same feeds
Each feeds last 5 articles are the same

DE-NORMALISATION

@feed.5_most_recent_stories_ids

RENDERING.

RENDERING.

ERB is a dog.

IMPROVING PERFORMANCE BENCHMARKING

BONG

BONG

<http://bong.rubyforge.org/>

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<http://bong.rubyforge.org/>

Geoffrey Grosenbach

BONG

<http://bong.rubyforge.org/>

Geoffrey Grosenbach

httperf

./SCRIPT/PERFORMANCE

USAGE: ./script/performance/request [options] [session script path]

-n, --times [100]	How many requests to process. Defaults to 100.
-b, --benchmark	Benchmark instead of profiling
-m, --measure [mode]	Which ruby-prof measure mode to use: process_time, wall_time, cpu_time, allocations, or memory. Defaults to process_time.
--open [CMD]	Command to open profile results. Defaults to "open %s &"
-h, --help	Show this help

RAILS_ROOT/PROFILING/SCRIPTS/CUSTOMISE.RB

```
get '/customise'
```



```
$ RAILS_ENV=profiling  
./script/performance/request  
-n 10  
-b  
profiling/integration_scripts/customise.rb
```

Warming up once
0.34 sec, 1 requests, 2 req/sec

Benchmarking 10x

.....
0.81 sec, 10 requests, 12 req/sec

```
$ rake benchmark:customise RAILS_ENV=profiling
```

```
Warming up once
```

```
0.34 sec, 1 requests, 2 req/sec
```

```
Benchmarking 10x
```

```
.....
```

```
0.81 sec, 10 requests, 12 req/sec
```

LIB/TASKS/BENCHMARK.RAKE

```
namespace :benchmark do
  def run_benchmark_script(integration_script_name)
    `./script/performance/request -n 10 -b
      profiling/integration_scripts/#{integration_script_name}.rb`
  end
  desc "Benchmark the customise page"
  task :customise => :environment do
    puts run_benchmark_script('customise')
  end
end
```

PASSING ARGS

```
desc "Benchmark a feed page"
task :feed => :environment do
  ENV['FEED_ID'] = Feed.find(:first, :order => "id DESC").id.to_s
  puts run_benchmark_script('feed')
end
```

```
get "/feeds/#{ENV['FEED_ID']}"
```

IMPROVING PERFORMANCE

CACHING

RAILS 2.1

RAILS 2.1

Ryan Bates' excellent screencast:

RAILS 2.1

**Ryan Bates' excellent screencast:
Caching in Rails 2.1**

RAILS.CACHE

```
Rails.cache.write('date', Date.today)
Rails.cache.read('date')
```

```
Rails.cache.fetch('time') { Time.now }
Rails.cache.read('time')
```

```
Category.first.cache_key # => "categories/1-20080622195243"
```

CONFIG/ENVIRONMENTS/PRODUCTION.RB

```
config.cache_store = :mem_cache_store  
                    "server1:11211"  
                    "server2:11211"  
                    { :namespace => 'myapp_production' }
```

HOMEPAGE

```
<% for feed in @feeds %>  
  <%- stories = feed.stories.recent(5) -%>  
  ...  
<% end %>
```

```
class Feed < ActiveRecord::Base
  # Cache key used for content that relies on the recent stories
  def recent_stories_cache_key
    "feeds/#{self.id}/#{self.stories_updated_at.to_i}"
  end
end
```

```
<% for feed in @feeds %>
  <% cache "#{feed.recent_stories_cache_key}/home" do -%>
    <%- stories = feed.stories.recent(5) -%>
    ...
  <% end -%>
<% end -%>
```

DEPLOYMENT

```
namespace :cache do
  desc "Clear the Rails cache"
  task :clear => :environment do
    Rails.cache.clear
  end
end
```

```
after "deploy" "clear_cache"
desc "Clear the Rails cache"
task :clear_cache,
  :roles => :app
  :except => {:no_release => true, :no_symlink => true} do
  run("cd #{current_release}; rake RAILS_ENV=#{rails_env} cache:clear")
end
```

**MAIN
TENANCE**

README

== Caching

=== Feed page

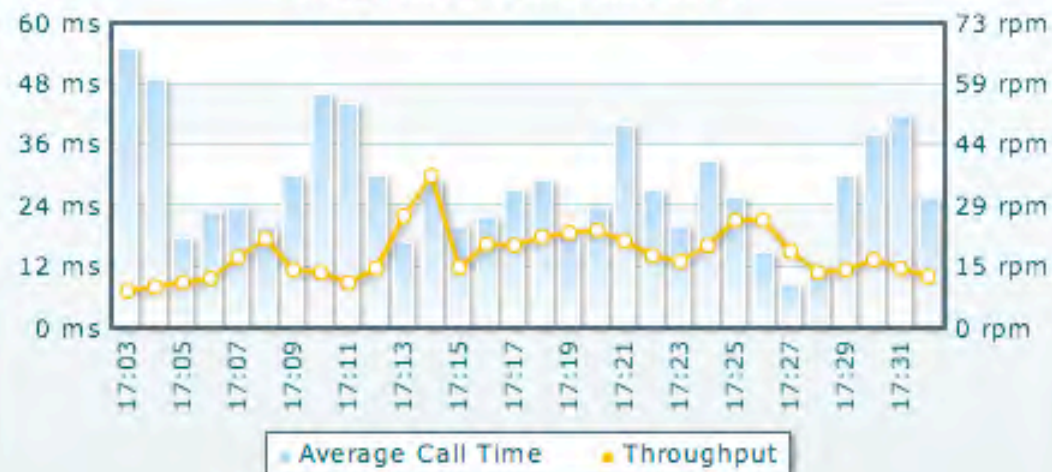
Fragment cache the lookup and render of recent stories

=== Customise

No caching

NEW RELIC

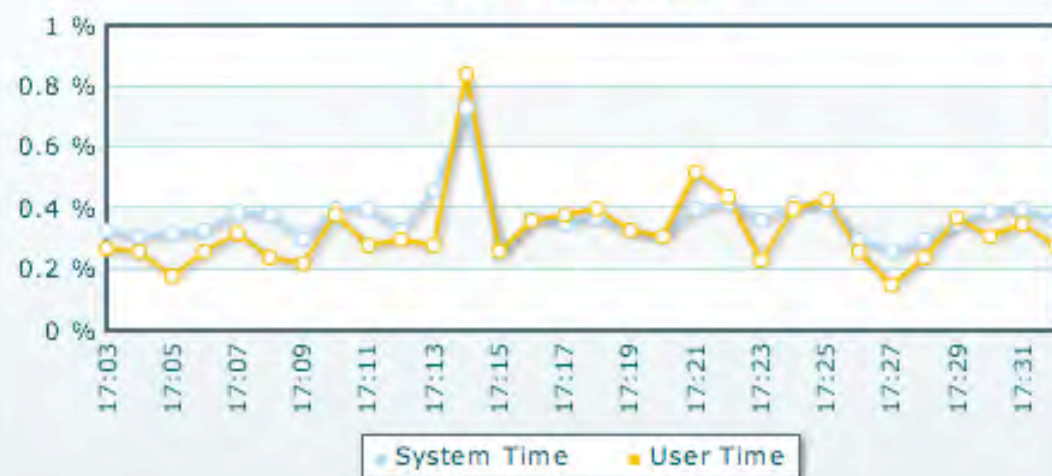
Response Time and Load



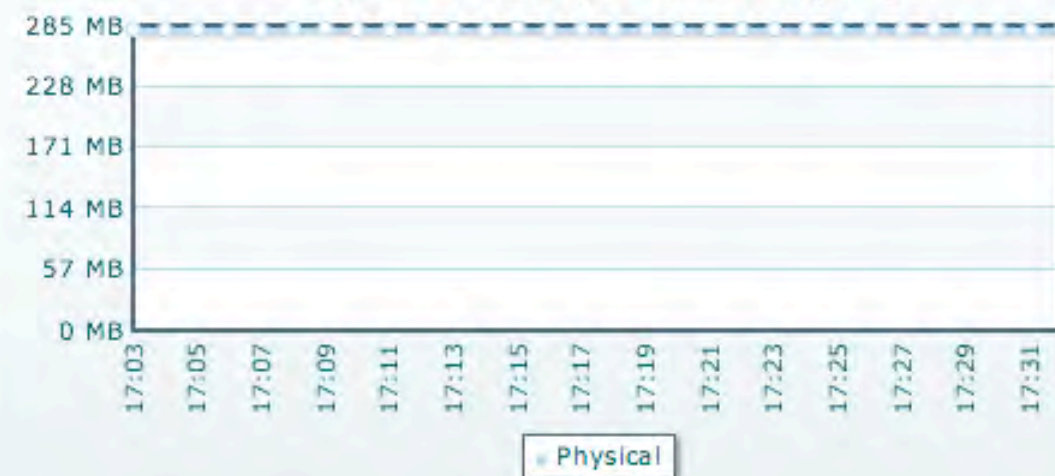
Active Record (Database) Activity



CPU Utilization

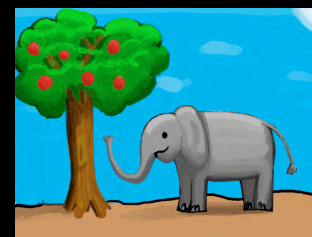


Physical Memory Utilization (MB)



**THANK
YOU**

TIM LUCAS
TOOLMANTIM.COM
TIM@AGENCYRAINFORD.COM



EFANT (FOR TOBY)
by LACHIE COX
FLICKR.COM/PHOTOS/LACHIEC