



# Open Source CMS

## A performance comparision

Mantavya Gajjar – Managining Director, OpenERP India

- Introduction
  - Products to Compare
  - Test Environment
- Test Cases (home, catalogue, product pages)
  - Performance
    - Google PageSpeed Inside
    - Speed Test using Pingdom
  - Scalability
    - Load Test using Blitz
  - Maintainability
    - Source Code – cloc
    - Community to maintain the source code
  - W3C Markup Validations
- Conclusion



# Introduction



# Introduction

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## Open Source Products, compared with Odoo

odoo cms

Drupal™

odoo commerce



- Version Saas4
- Standard Data / Modules
  - Demo data with Odoo Website, Commerce, Forum, News, etc

YourCompany

Home Shop Forum News Contact us | Sign in

Your Banner Title

Click to customize this text

Contact us



- Version 1.8.1.0
- Custom Data / Module
  - Home page and widgets
  - Added some products and their description

## Home Page

**Your Banner Title**  
Click to customize this text



Go To Electronics

**COMPARE PRODUCTS**  
You have no items to compare.

**MY CART**  
You have no items in your shopping cart.

**BACK TO SCHOOL**  
Keep your eyes open for our special **Back to School** items and save **BIG!**



Product Name	Price
Conference pears	1.70 €
Fishing	5.10 €
Peach	5.70 €

**A Section Subtitle**  
Write one or two paragraphs describing

**COMMUNITY POLL**  
What is your favorite color  
Green

- Version 7.27
- Custom Data / Modules
  - CK-Editor & CK-Finder
  - Ubercart for e-commerce, Rules, ctools, views, entity



#### Navigation

- [Catalog](#)
- [Compose tips](#)
- [Shopping cart](#)

#### User login

Username \*

Password \*

- [Create new account](#)
- [Request new password](#)

#### HDD

Submitted by admin on Wed, 05/21/2014 - 19:02

30-day money-back guarantee

Free Shipping in U.S.

Buy now, get in 2 days

Our products are designed for small to medium size companies willing to optimize their performance.

Price: \$220.00

Add to cart

**\$220.00**



- Version 1.6
- No Custom Data / Modules
  - Use default demo shop



Your Logo  
a new experience

Search



Cart (empty)

WOMEN

DRESSES

T-SHIRTS

BLOG

EXCEPTEUR  
OCCAECAT

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Proin tristique in tortor et dignissim. Quisque non tempor leo. Maecenas egestas sem elit

SHOP NOW !

3DAYS

SALE  
GET UP TO  
25% OFF



# Performance

Google PageSpeed Insight & Pingdom



# Google PageSpeed Insights

Home page on desktop

Computed by Google Page Speed Insight :

<https://developers.google.com/speed/pagespeed/insights/>



# Home Page

YourCompany Home Shop Forum News Contact us Sign in

**Your Banner Title**  
Click to customize this text

[Contact us](#)




Search entire store here...

Default welcome msg!  
[My Account](#) [My Wishlist](#) [My Cart](#) [Checkout](#) [Log In](#)

Electronics mu-e1fad14d8-013850d1-dc985c82-19a5dcda

Home Page

**Your Banner Title**  
Click to customize this text



[Go To Electronics](#)

Electronics	1.2k
Books	500
Electronics	1.2k

**A Section Subtitle**  
Write one or two paragraphs describing

**COMPARE PRODUCTS**  
You have no items to compare.

**MY CART**  
You have no items in your shopping cart.

**BACK TO SCHOOL**  
Keep your eyes open for our special Black to School items and save BIG!

**COMMUNITY POLL**  
What is your favorite color

 drupal.openerp.co.in

[Home](#) [Shop](#)

#### Navigation

- [Catalog](#)
- [Compose tips](#)
- [Shopping cart](#)

#### User login

Username \*

admin

Password \*

\*\*\*\*\*

- [Create new account](#)
- [Request new password](#)

#### HDD

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Price: \$220.00

**\$220.00**



[Read more](#) [Log in or register to post comments](#)

**SALE 70% OFF ALL PRODUCTS**

Call us now: 0123-456-789
[Contact us](#) [Sign In](#)

Your Logo  
a new experience

- [WOMEN](#)
- [DRESSES](#)
- [T-SHIRTS](#)
- [BLOG](#)

**EXCEPTEUR OCCAECAT**

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Proin tristique in tortor et dignissim. Quisque non tempor leo. Maecenas egetas sem elit.

**3 DAYS**

**SALE**

GET UP TO

**25% OFF**



# Odoo vs Drupal

Using: <a href="#">Google PageSpeed Insights</a>	Odoo ( ver. <a href="#">Saas4</a> )	Drupal ( ver. 7.27 )
 Home Page	89 Rating	85 Rating
Render-blocking JavaScript ?	1	3
Render-blocking CSS ?	1	11
Minify Javascript	✓	✗
Minify CSS	✓	✗
Minify HTML	✓	✓
Leverage browser caching	✓	✗
Avoid landing page redirects ?	✓	✓
Fast Response Time	✓	✗

Computed by Google Page Speed Insight : <https://developers.google.com/speed/pagespeed/insights/>  
Rating is out of 100



# Odoo vs Magento

Using: <b>Google PageSpeed Insights</b>	Odoo ( ver. <u>Saas4</u> )	Magento ( ver. 1.8.1.0 )
 Home Page	<b>89 Rating</b>	<b>76 Rating</b>
Render-blocking JavaScript ?	1	13
Render-blocking CSS ?	1	2
Minify Javascript	✓	✗
Minify CSS	✓	✗
Minify HTML	✓	✓
Leverage browser caching	✓	✗
Avoid landing page redirects ?	✓	✓
Fast Response Time	✓	✗

Computed by Google Page Speed Insight : <https://developers.google.com/speed/pagespeed/insights/>  
Rating is out of 100

Using: <b>Google PageSpeed Insights</b>	Odoo ( ver. <u>SaaS4</u> )	Prestashop ( ver. 1.6.0.6 )
 Home Page	<b>89 Rating</b>	<b>66 Rating</b>
Render-blocking JavaScript ?	1	0
Render-blocking CSS ?	1	25
Minify Javascript	✓	✗
Minify CSS	✓	✗
Minify HTML	✓	✗
Leverage browser caching	✓	✗
Avoid landing page redirects ?	✓	✓
Fast Response Time	✓	✗

Computed by Google Page Speed Insight : <https://developers.google.com/speed/pagespeed/insights/>  
 Rating is out of 100



# Summary : Google Page Speed

Using: <b>Google PageSpeed Insights</b>	Odoo ( ver. <u>SaaS4</u> )	Drupal ( ver. 7.27 )	Magento ( ver. 1.8.1.0 )	Prestashop ( ver. 1.6.0.6 )
 Home Page	<b>89 Rating</b>	<b>85 Rating</b>	<b>76 Rating</b>	<b>66 Rating</b>
Render-blocking JavaScript ?	1	3	13	0
Render-blocking CSS ?	1	11	2	25
Minify Javascript	✓	✗	✗	✗
Minify CSS	✓	✗	✗	✗
Minify HTML	✓	✓	✓	✗
Leverage browser caching	✓	✗	✗	✗
Avoid landing page redirects ?	✓	✓	✓	✓
Fast Response Time	✓	✗	✗	✗

Computed by Google Page Speed Insight : <https://developers.google.com/speed/pagespeed/insights/>

Rating is out of 100



# Google Page Speed Insights

Home page on mobile

Computed by Google Page Speed Insight :

<https://developers.google.com/speed/pagespeed/insights/>



# Odoo Vs Drupal

Using: Google PageSpeed Insights	Odoo ( ver. Saas4 )	Drupal ( ver. 7.27 )
 Home Page	User Exp. : 99 Rating Speed: 71 Rating	User Exp. : 88 Rating Speed: 68 Rating
Legible Font Size	✓	✓
Size tap targets appropriately	✓	✗
Viewport Configured	✓	✓
Viewport Content size	✓	✗

Computed by Google Page Speed Insight : <https://developers.google.com/speed/pagespeed/insights/>  
Rating is out of 100



# Odoo Vs Magento

Using: <b>Google PageSpeed Insights</b>	Odoo ( ver. <u>SaaS4</u> )	Magento ( ver. 1.8.1.0 )
 <b>Home Page</b>	User Exp. : 99 Rating Speed: 71 Rating	User Exp. : 58 Rating Speed: 64 Rating
Legible Font Size	✓	✗
Size tap targets appropriately	✓	✗
Viewport Configured	✓	✗
Viewport Content size	✓	✓

Computed by Google Page Speed Insight : <https://developers.google.com/speed/pagespeed/insights/>  
Rating is out of 100



# Odoo Vs Prestashop

Using: Google PageSpeed Insights	Odoo ( ver. Saas4 )	Prestashop ( ver. 1.6.0.6 )
 Home Page	User Exp. : 99 Rating Speed: 71 Rating	User Exp. : 99 Rating Speed: 55 Rating
Legible Font Size	✓	✓
Size tap targets appropriately	✓	✗
Viewport Configured	✓	✓
Viewport Content size	✓	✓

Computed by Google Page Speed Insight : <https://developers.google.com/speed/pagespeed/insights/>  
Rating is out of 100



# Summary : Google Page Speed

Using: Google PageSpeed Insights	Odoo ( ver. Saas4 )	Drupal ( ver. 7.27 )	Magento ( ver. 1.8.1.0 )	Prestashop ( ver. 1.6.0.6 )
 Home Page	User Exp. : 99 Rating Speed: 71 Rating	User Exp. : 88 Rating Speed: 68 Rating	User Exp. : 58 Rating Speed: 64 Rating	User Exp. : 99 Rating Speed: 55 Rating
Legible Font Size	✓	✓	✗	✓
Size tap targets appropriately	✓	✗	✗	✗
Viewport Configured	✓	✓	✗	✓
Viewport Content size	✓	✗	✓	✓

Computed by Google Page Speed Insight : <https://developers.google.com/speed/pagespeed/insights/>  
Rating is out of 100



# Google PageSpeed Insights

Product Catalogue on Desktop

Computed by Google Page Speed Insight :

<https://developers.google.com/speed/pagespeed/insights/>



# Odoo Vs Drupal

Using: <b>Google PageSpeed Insights</b>	<b>Odoo</b> ( ver. Saas4 )	<b>Drupal</b> ( ver. 7.27 )
 <b>Product Catalog</b>	<b>84 Rating</b>	<b>89 Rating</b>
Render-blocking JavaScript ?	3	4
Render-blocking CSS ?	3	10
Minify Javascript	✗	✗
Minify CSS	✗	✗
Minify HTML	✓	✓
Leverage browser caching	✓	✗
Avoid landing page redirects ?	✓	✓
Fast Response Time	✓	✗

Computed by Google Page Speed Insight : <https://developers.google.com/speed/pagespeed/insights/>  
Rating is out of 100

Using: Google PageSpeed Insights	Odoo ( ver. Saas4 )	Magento ( ver. 1.8.1.0 )
 Product Catalog	84 Rating	71 Rating
Render-blocking JavaScript ?	3	13
Render-blocking CSS ?	3	2
Minify Javascript	✗	✗
Minify CSS	✗	✗
Minify HTML	✓	✓
Leverage browser caching	✓	✗
Avoid landing page redirects ?	✓	✓
Fast Response Time	✓	✗

Computed by Google Page Speed Insight : <https://developers.google.com/speed/pagespeed/insights/>  
 Rating is out of 100

Using: Google PageSpeed Insights	Odoo ( ver. Saas4 )	Prestashop ( ver. 1.6.0.6 )
 Product Catalog	84 Rating	63 Rating
Render-blocking JavaScript ?	3	0
Render-blocking CSS ?	3	30
Minify Javascript	✗	✗
Minify CSS	✗	✗
Minify HTML	✓	✗
Leverage browser caching	✓	✗
Avoid landing page redirects ?	✓	✓
Fast Response Time	✓	✗

Computed by Google Page Speed Insight : <https://developers.google.com/speed/pagespeed/insights/>

Rating is out of 100



# Summary : Google Page Speed

Using: <a href="#">Google PageSpeed Insights</a>	Odoo ( ver. Saas4 )	Drupal ( ver. 7.27 )	Magento ( ver. 1.8.10 )	Prestashop ( ver. 1.6.0.6 )
 Product Catalog	84 Rating	89 Rating	71 Rating	63 Rating
Render-blocking JavaScript ?	3	4	13	0
Render-blocking CSS ?	3	10	2	30
Minify Javascript	✗	✗	✗	✗
Minify CSS	✗	✗	✗	✗
Minify HTML	✓	✓	✓	✗
Leverage browser caching	✓	✗	✗	✗
Avoid landing page redirects ?	✓	✓	✓	✓
Fast Response Time	✓	✗	✗	✗

Computed by Google Page Speed Insight : <https://developers.google.com/speed/pagespeed/insights/>  
Rating is out of 100



# Google PageSpeed Insights

Product Catalogue on Mobile

Computed by Google Page Speed Insight :

<https://developers.google.com/speed/pagespeed/insights/>



# Odoo Vs Drupal

Using: Google PageSpeed Insights	Odoo ( ver. Saas4 )	Drupal ( ver. 7.27 )
 Product Catalog	User Exp. : 98 Rating Speed: 68 Rating	User Exp. : 86 Rating  Speed: 73 Rating
Legible Font Size	✓	✓
Size tap targets appropriately	✓	✗
Viewport Configured	✓	✓
Viewport Content size	✓	✗

Computed by Google Page Speed Insight : <https://developers.google.com/speed/pagespeed/insights/>  
Rating is out of 100



# Odoo Vs Magento

Using: Google PageSpeed Insights	Odoo ( ver. Saas4 )	Magento ( ver. 1.8.1.0 )
 Product Catalog	User Exp. : 98 Rating Speed: 68 Rating	User Exp. : 59 Rating Speed: 59 Rating
Legible Font Size	✓	✗
Size tap targets appropriately	✓	✗
Viewport Configured	✓	✗
Viewport Content size	✓	✓

Computed by Google Page Speed Insight : <https://developers.google.com/speed/pagespeed/insights/>  
Rating is out of 100



# Odoo Vs Prestashop

Using: Google PageSpeed Insights	Odoo ( ver. Saas4 )	Prestashop ( ver. 1.6.0.6 )
 Product Catalog	User Exp. : 98 Rating Speed: 68 Rating	User Exp. : 99 Rating Speed: 48 Rating
Legible Font Size	✓	✓
Size tap targets appropriately	✓	✗
Viewport Configured	✓	✓
Viewport Content size	✓	✓

Computed by Google Page Speed Insight : <https://developers.google.com/speed/pagespeed/insights/>  
Rating is out of 100



# Summary : Google Page Speed

Using: Google PageSpeed Insights	Odoo ( ver. Saas4 )	Drupal ( ver. 7.27 )	Magento ( ver. 1.8.1.0 )	Prestashop ( ver. 1.6.0.6 )
 Product Catalog	User Exp. : 98 Rating Speed: 68 Rating	User Exp. : 86 Rating Speed: 73 Rating	User Exp. : 59 Rating Speed: 59 Rating	User Exp. : 99 Rating Speed: 48 Rating
Legible Font Size	✓	✓	✗	✓
Size tap targets appropriately	✓	✗	✗	✗
Viewport Configured	✓	✓	✗	✓
Viewport Content size	✓	✗	✓	✓

Computed by Google Page Speed Insight : <https://developers.google.com/speed/pagespeed/insights/>  
Rating is out of 100



# Google PageSpeed Insights

Product Page on Desktop

Computed by Google Page Speed Insight :

<https://developers.google.com/speed/pagespeed/insights/>



# Odoo Vs Drupal

Using: Google PageSpeed Insights	Odoo ( ver. Saas4 )	Drupal ( ver. 7.27 )
 Product Form	89 Rating	87 Rating
Render-blocking JavaScript ?	2	4
Render-blocking CSS ?	3	10
Minify Javascript	✓	✗
Minify CSS	✓	✗
Minify HTML	✓	✓
Leverage browser caching	✓	✗
Avoid landing page redirects ?	✓	✓
Fast Response Time	✗	✓

Computed by Google Page Speed Insight : <https://developers.google.com/speed/pagespeed/insights/>

Rating is out of 100



# Odoo Vs Magento

Using: Google PageSpeed Insights	Odoo ( ver. Saas4 )	Magento ( ver. 1.8.1.0 )
 Product Form	89 Rating	70 Rating
Render-blocking JavaScript ?	2	17
Render-blocking CSS ?	3	3
Minify Javascript	✓	✗
Minify CSS	✓	✗
Minify HTML	✓	✓
Leverage browser caching	✓	✗
Avoid landing page redirects ?	✓	✓
Fast Response Time	✗	✗

Computed by Google Page Speed Insight : <https://developers.google.com/speed/pagespeed/insights/>  
Rating is out of 100



# Odoo Vs Prestashop

Using: Google PageSpeed Insights	Odoo ( ver. Saas4 )	Prestashop ( ver. 1.6.0.6 )
 Product Form	89 Rating	58 Rating
Render-blocking JavaScript ?	2	0
Render-blocking CSS ?	3	27
Minify Javascript	✓	✗
Minify CSS	✓	✗
Minify HTML	✓	✗
Leverage browser caching	✓	✗
Avoid landing page redirects ?	✓	✓
Fast Response Time	✗	✗

Computed by Google Page Speed Insight : <https://developers.google.com/speed/pagespeed/insights/>  
Rating is out of 100

# Summary : Google Page Speed

Using: <b>Google PageSpeed Insights</b>	OpenERP ( ver. Soas4 )	Drupal ( ver. 7.27 )	Magento ( ver. 1.8.1.0 )	Prestashop ( ver. 1.6.0.6 )
 <b>Product Form</b>	<b>89 Rating</b>	<b>87 Rating</b>	<b>70 Rating</b>	<b>58 Rating</b>
Render-blocking JavaScript ?	2	4	17	0
Render-blocking CSS ?	3	10	3	27
Minify Javascript	✓	✗	✗	✗
Minify CSS	✓	✗	✗	✗
Minify HTML	✓	✓	✓	✗
Leverage browser caching	✓	✗	✗	✗
Avoid landing page redirects ?	✓	✓	✓	✓
Fast Response Time	✗	✓	✗	✗

Computed by Google Page Speed Insight : <https://developers.google.com/speed/pagespeed/insights/>

Rating is out of 100



# Google PageSpeed Insights

Product Page on Mobile

Computed by Google Page Speed Insight :

<https://developers.google.com/speed/pagespeed/insights/>



# Odoo Vs Drupal

Using: Google PageSpeed Insights	Odoo ( ver. Saas4 )	Drupal ( ver. 7.27 )
 Product Form	User Exp. : 96 Rating Speed: 71 Rating	User Exp. : 73 Rating Speed: 78 Rating
Legible Font Size	✓	✓
Size tap targets appropriately	✓	✗
Viewport Configured	✓	✓
Viewport Content size	✓	✗

Computed by Google Page Speed Insight : <https://developers.google.com/speed/pagespeed/insights/>  
Rating is out of 100



# Odoo Vs Magento

Using: Google PageSpeed Insights	Odoo ( ver. Saas4 )	Magento ( ver. 1.8.1.0 )
 Product Form	User Exp. : 96 Rating Speed: 71 Rating	User Exp. : 58 Rating Speed: 59 Rating
Legible Font Size	✓	✗
Size tap targets appropriately	✓	✗
Viewport Configured	✓	✗
Viewport Content size	✓	✓

Computed by Google Page Speed Insight : <https://developers.google.com/speed/pagespeed/insights/>  
Rating is out of 100



# Odoo Vs Prestashop

Using: Google PageSpeed Insights	Odoo ( ver. Saas4 )	Prestashop ( ver. 1.6.0.6 )
 Product Form	User Exp. : 96 Rating Speed: 71 Rating	User Exp. : 99 Rating Speed: 48 Rating
Legible Font Size	✓	✓
Size tap targets appropriately	✓	✗
Viewport Configured	✓	✓
Viewport Content size	✓	✓

Computed by Google Page Speed Insight : <https://developers.google.com/speed/pagespeed/insights/>  
Rating is out of 100



# Summary : Google Page Speed

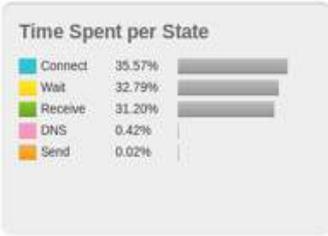
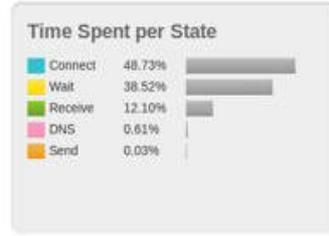
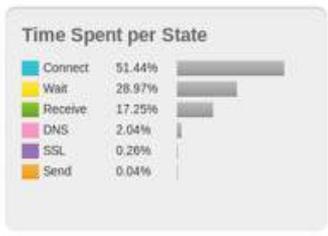
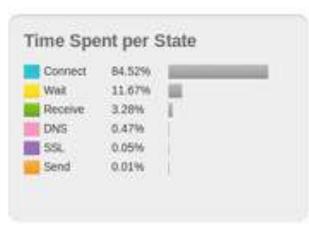
Using: Google PageSpeed Insights	OpenERP ( ver. Saas4 )	Drupal ( ver. 7.27 )	Magento ( ver. 1.8.10 )	Prestashop ( ver. 1.6.0.6 )
 Product Form	User Exp. : 96 Rating Speed: 71 Rating	User Exp. : 73 Rating Speed: 78 Rating	User Exp. : 58 Rating Speed: 59 Rating	User Exp. : 99 Rating Speed: 48 Rating
Legible Font Size	✓	✓	✗	✓
Size tap targets appropriately	✓	✗	✗	✗
Viewport Configured	✓	✓	✗	✓
Viewport Content size	✓	✗	✓	✓

Computed by Google Page Speed Insight : <https://developers.google.com/speed/pagespeed/insights/>  
Rating is out of 100



# Speed Test using Pingdom

Resources Loads to render page

Home Page	Odoo ( ver. Saas4 )	Drupal ( ver. 7.27 )	Magento ( ver. 1.8.1.0 )	Prestashop ( ver. 1.6.0.6 )																																												
Performance Grade	91 / 100	87 / 100	85 / 100	59 / 100																																												
Requests	14	37	38	103																																												
# of JS	2	3	13	26																																												
# of CSS	2	19	3	27																																												
	 <table border="1"> <caption>Time Spent per State (Odoo)</caption> <tr><td>Connect</td><td>35.57%</td></tr> <tr><td>Wait</td><td>32.79%</td></tr> <tr><td>Receive</td><td>31.20%</td></tr> <tr><td>DNS</td><td>0.42%</td></tr> <tr><td>Send</td><td>0.02%</td></tr> </table>	Connect	35.57%	Wait	32.79%	Receive	31.20%	DNS	0.42%	Send	0.02%	 <table border="1"> <caption>Time Spent per State (Drupal)</caption> <tr><td>Connect</td><td>48.73%</td></tr> <tr><td>Wait</td><td>38.52%</td></tr> <tr><td>Receive</td><td>12.10%</td></tr> <tr><td>DNS</td><td>0.61%</td></tr> <tr><td>Send</td><td>0.03%</td></tr> </table>	Connect	48.73%	Wait	38.52%	Receive	12.10%	DNS	0.61%	Send	0.03%	 <table border="1"> <caption>Time Spent per State (Magento)</caption> <tr><td>Connect</td><td>51.44%</td></tr> <tr><td>Wait</td><td>28.97%</td></tr> <tr><td>Receive</td><td>17.25%</td></tr> <tr><td>DNS</td><td>2.04%</td></tr> <tr><td>SSL</td><td>0.28%</td></tr> <tr><td>Send</td><td>0.04%</td></tr> </table>	Connect	51.44%	Wait	28.97%	Receive	17.25%	DNS	2.04%	SSL	0.28%	Send	0.04%	 <table border="1"> <caption>Time Spent per State (Prestashop)</caption> <tr><td>Connect</td><td>84.52%</td></tr> <tr><td>Wait</td><td>11.67%</td></tr> <tr><td>Receive</td><td>3.28%</td></tr> <tr><td>DNS</td><td>0.47%</td></tr> <tr><td>SSL</td><td>0.05%</td></tr> <tr><td>Send</td><td>0.01%</td></tr> </table>	Connect	84.52%	Wait	11.67%	Receive	3.28%	DNS	0.47%	SSL	0.05%	Send	0.01%
Connect	35.57%																																															
Wait	32.79%																																															
Receive	31.20%																																															
DNS	0.42%																																															
Send	0.02%																																															
Connect	48.73%																																															
Wait	38.52%																																															
Receive	12.10%																																															
DNS	0.61%																																															
Send	0.03%																																															
Connect	51.44%																																															
Wait	28.97%																																															
Receive	17.25%																																															
DNS	2.04%																																															
SSL	0.28%																																															
Send	0.04%																																															
Connect	84.52%																																															
Wait	11.67%																																															
Receive	3.28%																																															
DNS	0.47%																																															
SSL	0.05%																																															
Send	0.01%																																															

As browser can load only 4 files in parallel on midsize traffic website, then latency time and number of resources to download impact time to load more resources

Odoo load **faster** because concatenate several files, minify and gzip the content, even all the modules installed



# Resources Load to render page

Product Catalogue	Odoo (ver. Saas4)	Drupal (ver. 7.27)	Magento (ver. 1.8.1.0)	Prestashop (ver. 1.6.0.6)																																										
Performance Grade	89 / 100	87 / 100	85 / 100	75 / 100																																										
# of Products on page	15	10	9	10																																										
Requests	25	37	50	91																																										
# of JS	4	4	13	28																																										
# of CSS	4	19	3	30																																										
	<p>Time Spent per State</p> <table><tr><td>Wait</td><td>38.91%</td></tr><tr><td>Receive</td><td>37.39%</td></tr><tr><td>Connect</td><td>23.67%</td></tr><tr><td>DNS</td><td>0.02%</td></tr><tr><td>Send</td><td>0.00%</td></tr></table>	Wait	38.91%	Receive	37.39%	Connect	23.67%	DNS	0.02%	Send	0.00%	<p>Time Spent per State</p> <table><tr><td>Connect</td><td>57.15%</td></tr><tr><td>Wait</td><td>35.69%</td></tr><tr><td>Receive</td><td>6.82%</td></tr><tr><td>DNS</td><td>0.32%</td></tr><tr><td>Send</td><td>0.01%</td></tr></table>	Connect	57.15%	Wait	35.69%	Receive	6.82%	DNS	0.32%	Send	0.01%	<p>Time Spent per State</p> <table><tr><td>Connect</td><td>66.65%</td></tr><tr><td>Wait</td><td>24.49%</td></tr><tr><td>Receive</td><td>7.97%</td></tr><tr><td>DNS</td><td>0.70%</td></tr><tr><td>SSL</td><td>0.17%</td></tr><tr><td>Send</td><td>0.02%</td></tr></table>	Connect	66.65%	Wait	24.49%	Receive	7.97%	DNS	0.70%	SSL	0.17%	Send	0.02%	<p>Time Spent per State</p> <table><tr><td>Connect</td><td>83.93%</td></tr><tr><td>Wait</td><td>14.09%</td></tr><tr><td>Receive</td><td>1.97%</td></tr><tr><td>DNS</td><td>0.06%</td></tr><tr><td>Send</td><td>0.01%</td></tr></table>	Connect	83.93%	Wait	14.09%	Receive	1.97%	DNS	0.06%	Send	0.01%
Wait	38.91%																																													
Receive	37.39%																																													
Connect	23.67%																																													
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# Resources Load to render page

Product Form	Odoo ( ver. Saas4 )	Drupal ( ver. 7.27 )	Magento ( ver. 1.8.1.0 )	Prestashop ( ver. 1.6.0.6 )																																										
Performance Grade	84 / 100	87 / 100	86 / 100	58 / 100																																										
Requests	13	31	54	74																																										
# of JS	4	3	17	29																																										
# of CSS	3	19	4	28																																										
	<p><b>Time Spent per State</b></p> <table><tr><td>Receive</td><td>43.99%</td></tr><tr><td>Wait</td><td>36.11%</td></tr><tr><td>Connect</td><td>16.41%</td></tr><tr><td>DNS</td><td>3.48%</td></tr><tr><td>Send</td><td>0.00%</td></tr></table>	Receive	43.99%	Wait	36.11%	Connect	16.41%	DNS	3.48%	Send	0.00%	<p><b>Time Spent per State</b></p> <table><tr><td>Connect</td><td>42.62%</td></tr><tr><td>Receive</td><td>28.61%</td></tr><tr><td>Wait</td><td>27.41%</td></tr><tr><td>DNS</td><td>1.13%</td></tr><tr><td>Send</td><td>0.02%</td></tr></table>	Connect	42.62%	Receive	28.61%	Wait	27.41%	DNS	1.13%	Send	0.02%	<p><b>Time Spent per State</b></p> <table><tr><td>Connect</td><td>57.31%</td></tr><tr><td>Receive</td><td>22.39%</td></tr><tr><td>Wait</td><td>20.25%</td></tr><tr><td>DNS</td><td>0.03%</td></tr><tr><td>SSL</td><td>0.02%</td></tr><tr><td>Send</td><td>0.01%</td></tr></table>	Connect	57.31%	Receive	22.39%	Wait	20.25%	DNS	0.03%	SSL	0.02%	Send	0.01%	<p><b>Time Spent per State</b></p> <table><tr><td>Connect</td><td>82.74%</td></tr><tr><td>Wait</td><td>14.72%</td></tr><tr><td>Receive</td><td>2.06%</td></tr><tr><td>DNS</td><td>0.47%</td></tr><tr><td>Send</td><td>0.01%</td></tr></table>	Connect	82.74%	Wait	14.72%	Receive	2.06%	DNS	0.47%	Send	0.01%
Receive	43.99%																																													
Wait	36.11%																																													
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Send	0.01%																																													



# Scaleablity

Using Blitz, simulate the 250 users



# Load Test using Blitz

Region – Virginia | Duration – 60 Seconds | Load – 1 To 250 Users

Computed using Blitz: <https://www.blitz.io>

## Magento, Prestashop, Drupa

- Ubuntu 14.04 latest LTS
- Apache 2.2 Server
- PHP 5 Framework
- MySQL Server 5.0

## Odoo

- Ubuntu 14.04 latest LTS
- Nginx 1.4
- Odoo Framework
- PostgreSQL 9.1



# Hardware Configuration

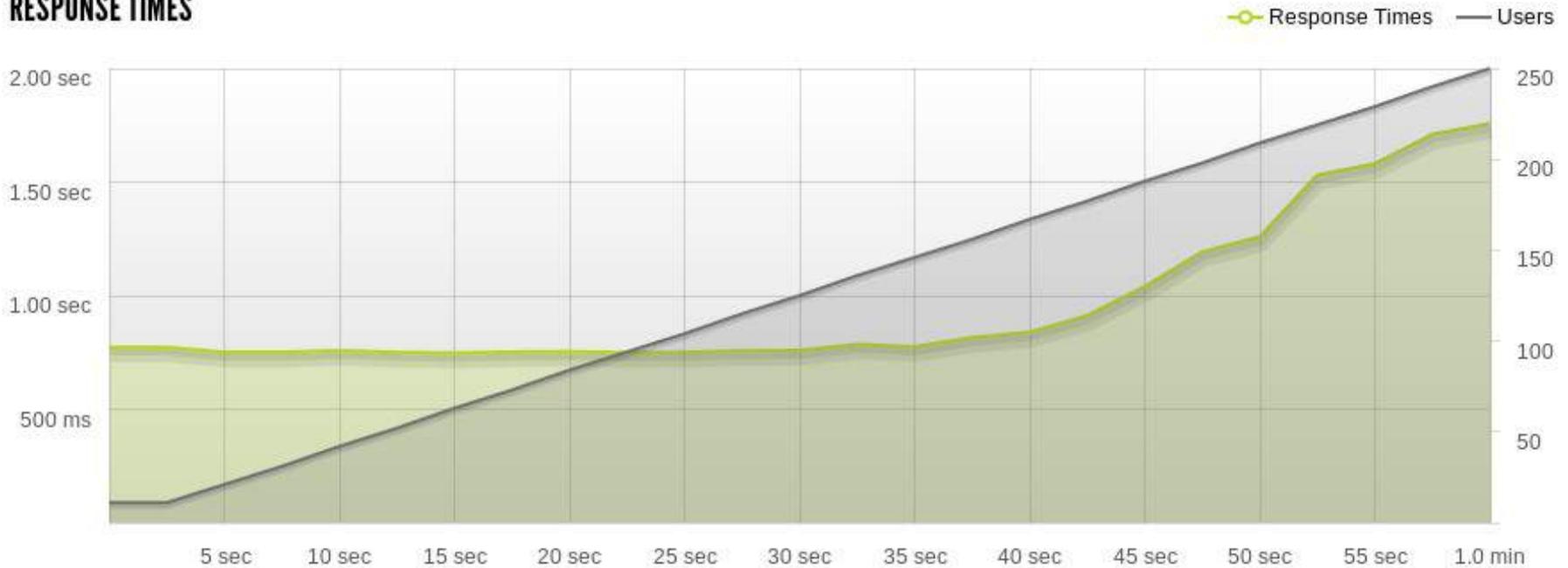
---

- IBM Server Series X3500 M4, 15 MB L3 Cache
- 300 GB GSAS Drive 10K RPMs
- Intel(R) Xeon(R) CPU E5-2620 0 @ 2.00GHz, 12 cores
- 8 GB Physical RAM
- 15 MBPS Dedicated Internet connection line

## Network:

- 15 MBPS dedicated Internet connection

## RESPONSE TIMES



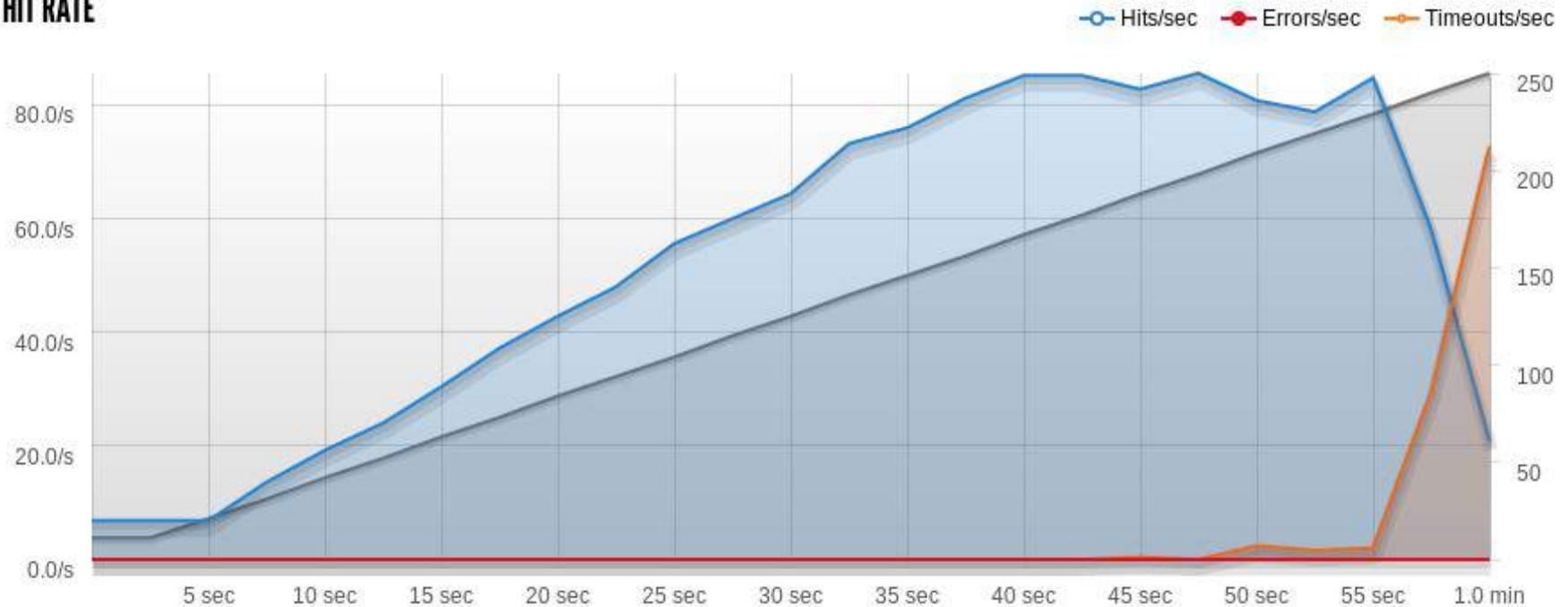
## Configuration :

Region – **Virginia** | Duration – **60 Seconds** | Load – **1 To 250 Users**

The max hit rate was: **88** hits per second

**Website and Ecommerce apps installed**

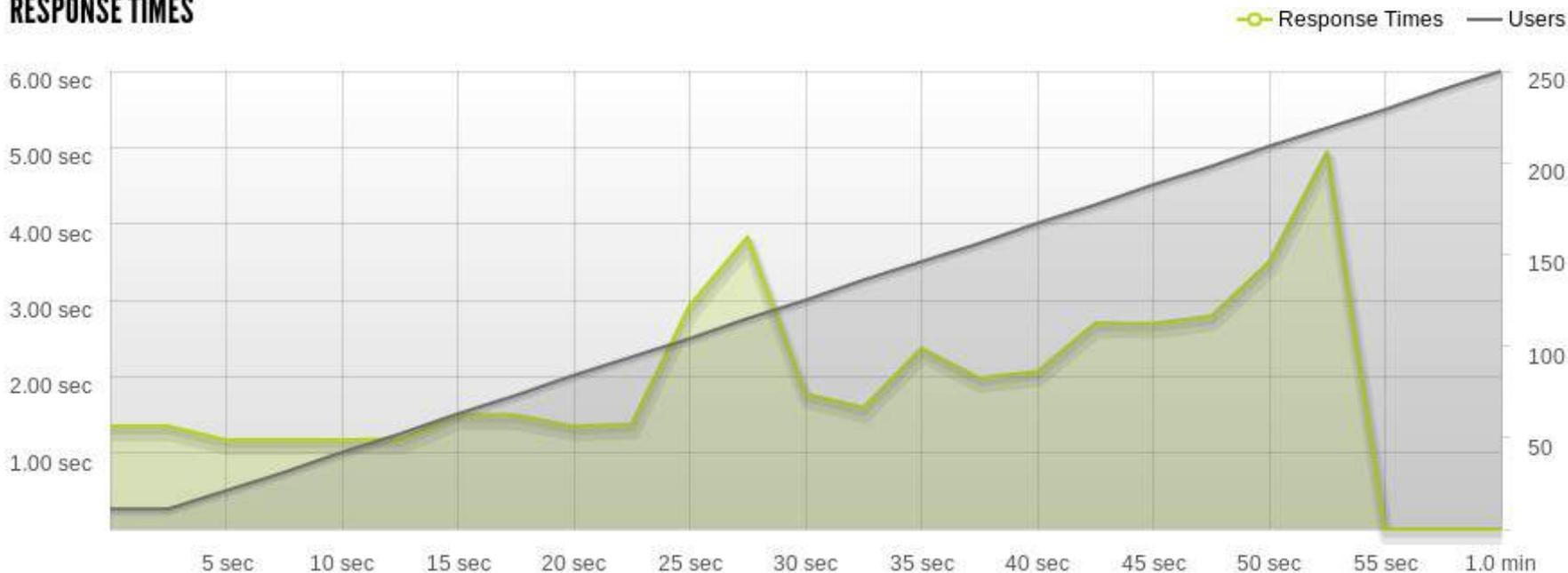
## HIT RATE



## Response Time :

- Fastest: **530 ms** | Slowest: **1655 ms** | Average: **829 ms**
- First time out happened at **47.4 second** at **198 users**
- **3646** successful hits in **60 sec**, avg **52,45,920** hits/day capacity.

## RESPONSE TIMES

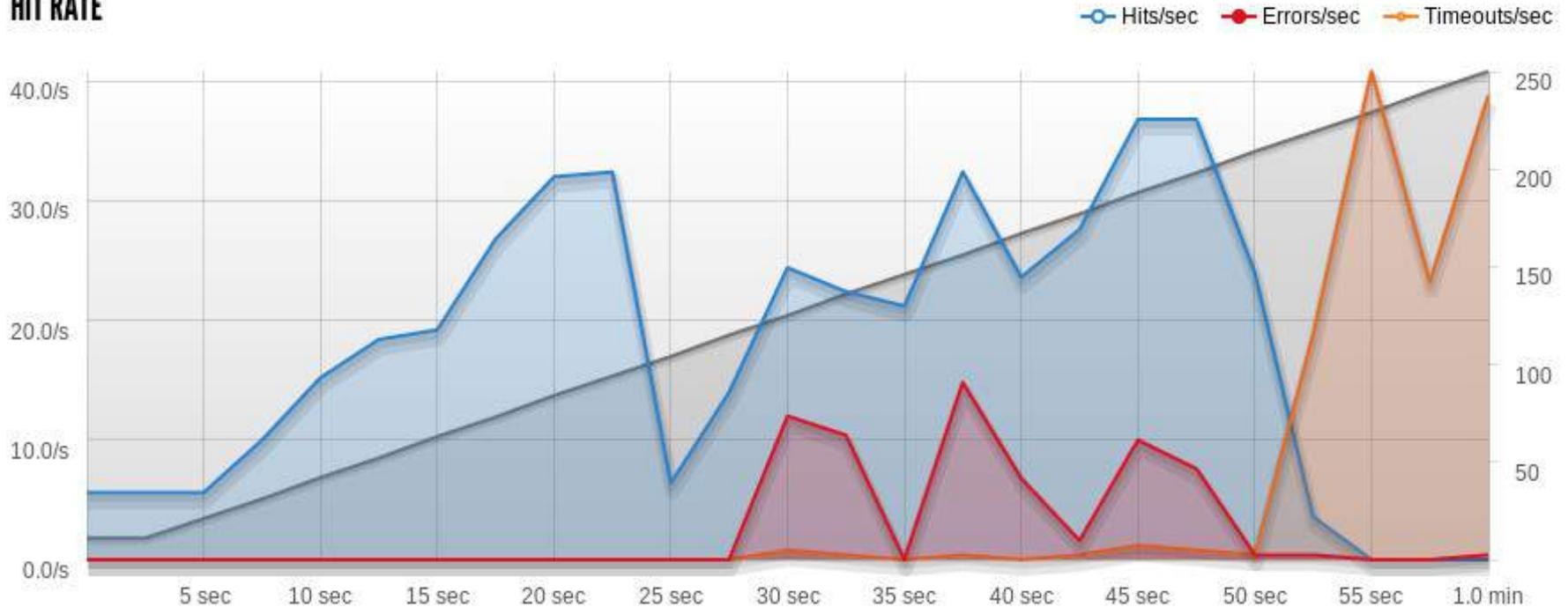


## Configuration :

Region – **Virginia** | Duration – **60 Seconds** | Load – **1 To 250 Users**

The max hit rate was : **37** hits per second

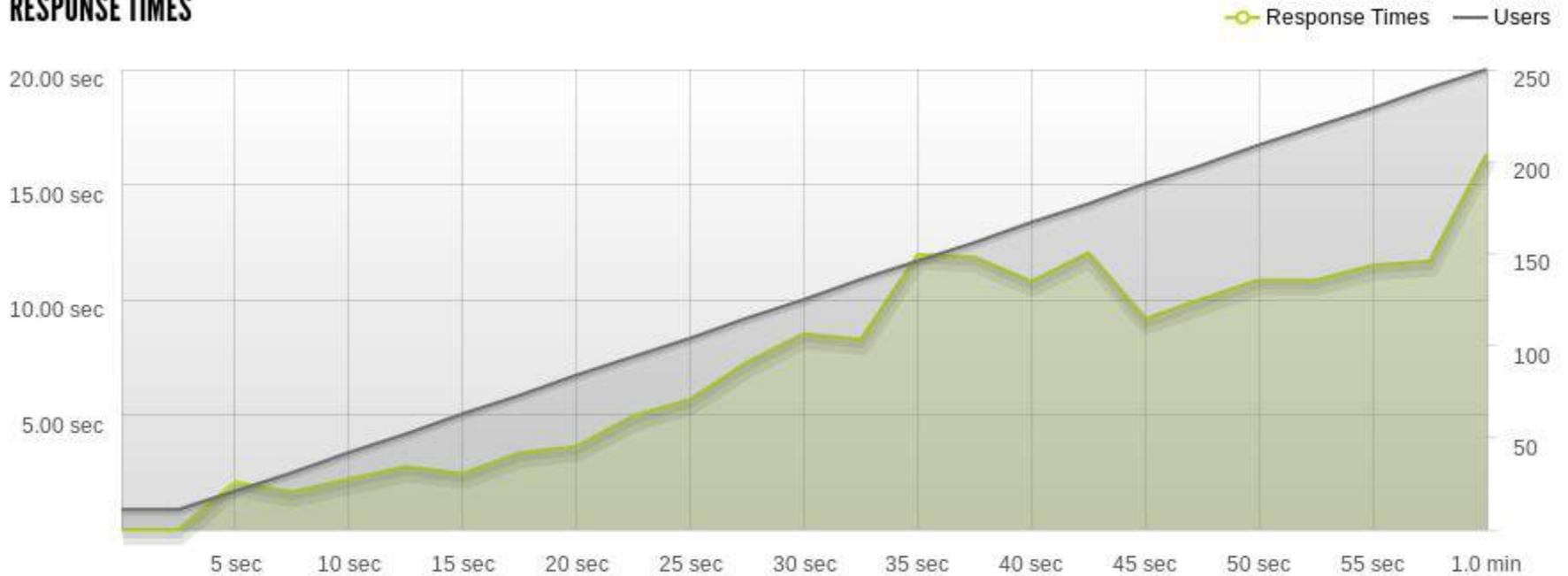
## HIT RATE



## Response Time :

- Fastest: **1172 ms** | Slowest: **4943 ms** | Average: **2141 ms**
- First time out happened at **30 second** at **125 users**
- **1,083** successful hits in **60 sec**, avg **15,59,520** hits/day capacity.

## RESPONSE TIMES

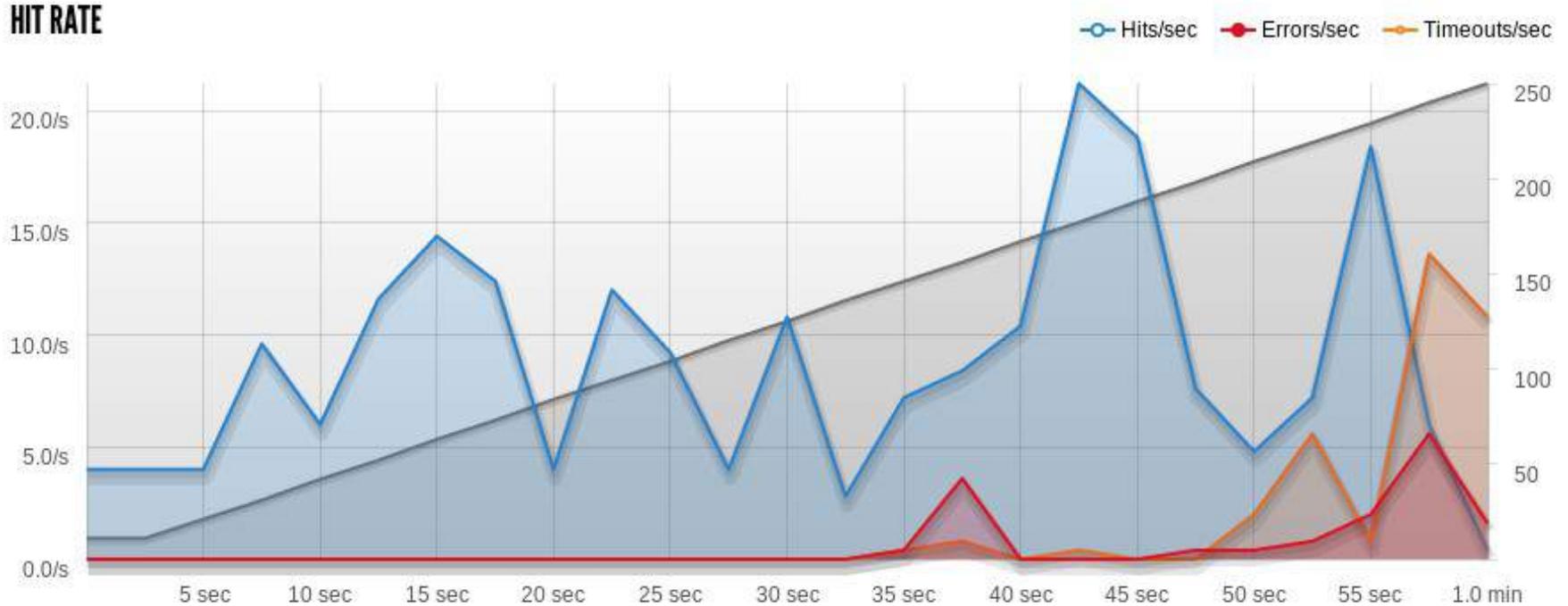


## Configuration :

Region – **Virginia** | Duration – **60 Seconds** | Load – **1 To 250 Users**

The max hit rate was : **21** hits per second

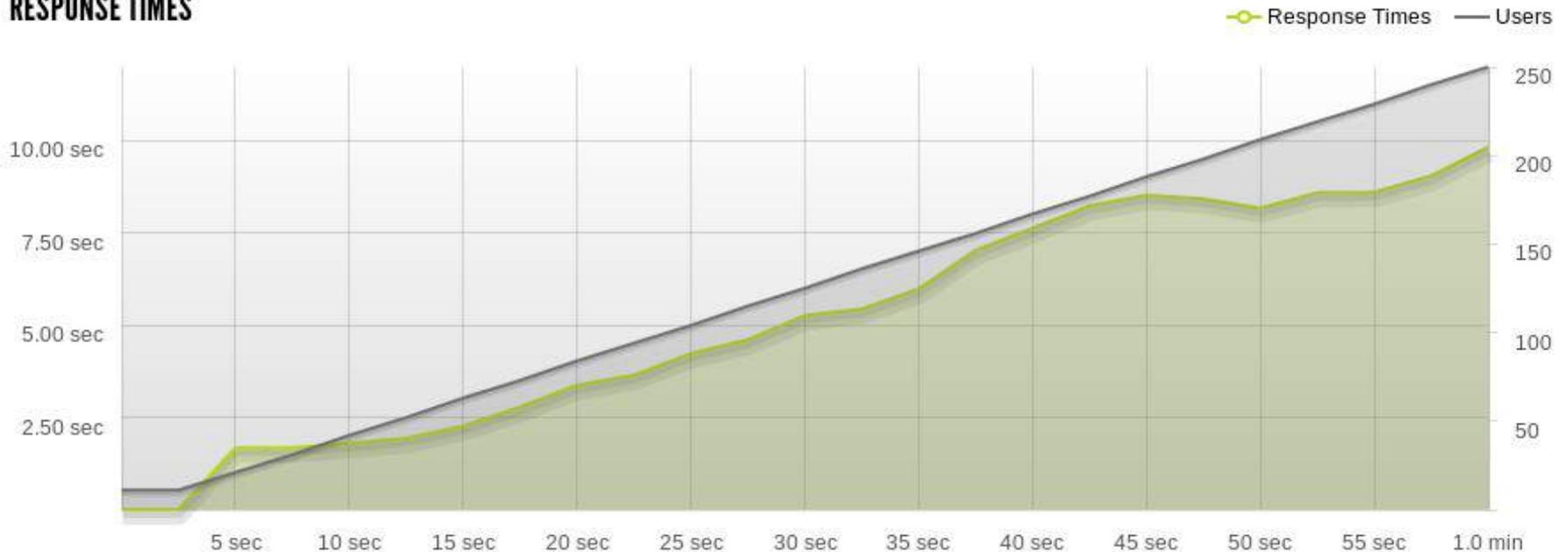
## HIT RATE



## Response Time :

- Fastest: **1639 ms** | Slowest: **16315 ms** | Average: **7813 ms**
- First time out happened at **35 second** at **146 users**
- **528** successful hits in **60 sec**, avg **0.7 M** hits/day capacity.

## RESPONSE TIMES

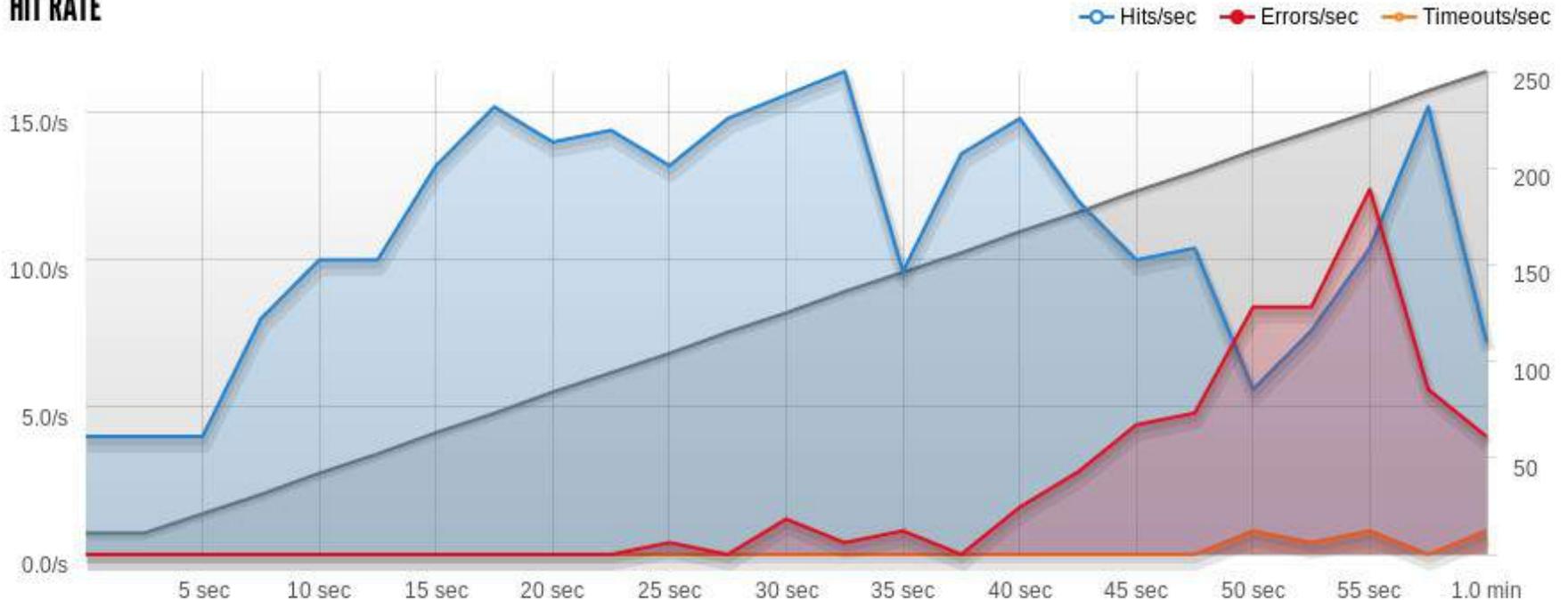


## Configuration :

Region – **Virginia** | Duration – **60 Seconds** | Load – **1 To 250 Users**

The max hit rate was : 16 hits per second

## HIT RATE

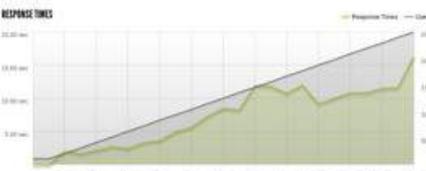
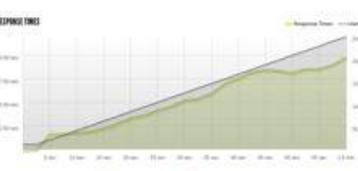
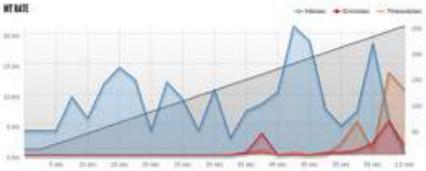


## Response Time :

- Fastest: **1678 ms** | Slowest: **9228 ms** | Average: **5598 ms**
- First time out happened at **25 second** at **104 users**
- **663** successful hits in **60 sec**, avg **0.95 M** hits/day capacity.



# Load Test Summary

Odoo ( ver. SaaS4 )	Drupal ( ver. 7.27 )	Magento ( ver. 1.8.1.0 )	Prestashop ( ver. 1.6.0.6 )
 <p>Response Time</p>	 <p>Response Time</p>	 <p>Response Time</p>	 <p>Response Time</p>
 <p>Hit Rate</p>	 <p>Hit Rate</p>	 <p>Hit Rate</p>	 <p>Hit Rate</p>
Successful Hits : 3646 (98.49%)	Successful Hits : 1083 (69.47%)	Successful Hits : 528 (81.11%)	Successful Hits : 1989 (82.05%)
Timeout : 56 (1.51%)	Timeout : 315 (20.21%)	Timeout : 86 (13.21%)	Timeout : 138 (17.08 %)
Error : 0 (0.0%)	Error : 161 (10.33%)	Error : 37 (5.68%)	Error : 7 (0.87%)
Data Transfer : 50.70 MB	Data Transfer : 39.04 MB	Data Transfer : 7.63 MB	Data Transfer : 62.19 MB
First Time Out : 47.4 sec	First Time Out : 30 sec	First Time Out : 35 sec	First Time Out : 25 sec
at 198 Users	at 125 Users	at 146 Users	at 104 Users

## Speed :

- Odoo is 3x times faster than the Drupal
- Odoo is 6x times faster than the Magento
- Odoo is 2x times faster than the Prestashop

## Scalability :

- Odoo timeout at 198 users
- Drupal timeout at 125 users
- Magento timeout at 148 users
- Prestashop timeout at 104 users



# W3C Markup Validation

HTML Validation



# W3C Check

Using: W3C Markup Validation	Odoo ( ver. Saas4 )	Drupal ( ver. 7.27 )	Magento ( ver. 1.8.1.0 )	Prestashop ( ver. 1.6.0.6 )
Home Page	29 Errors	0 Errors	2 Errors	4 Error
Product Catalogue	68 Errors	2 Errors	2 Errors	122 Errors
Product	10 Errors	0 Errors	1 Error	4 Errors

## Odoo's main problem

- Element meta is missing one or more of the following attributes: content, property.
- An img element must have an alt attribute, except under certain conditions
- The width attribute on the table element is obsolete. Use CSS instead.

Team is working on those issues , will be fixed soon



# Maintainability

lines of code and contributors



# Test 1 : Source Code

Code : using cloc	Odoo ( ver. <u>Saas4</u> )	Drupal ( ver. 7.27 )	Magento ( ver. 1.8.1.0 )	Prestashop ( ver. 1.6.0.6 )
JavaScript	49K	124K	95K	56K
CSS	29K	28K	31K	74K
HTML / XML	8K + 376K	16K	6K + 295K	5k + 8K
Python / PHP	114K	58K + 99K	630K	223K

## Comparison between :

- Odoo : includes all modules. I.e accounting, wms, mrp, websites, etc...
- Drupal, Magento and Prestashop : only core modules

## Odoo is :

- 1.3x times smaller than the drupal
- 5.5x times smaller than the magento
- 1.9x times smaller than the prestashop

## In a Nutshell, Odoo...

- ... has had **95,464** commits made by **1,054** contributors representing **767,582** lines of code
- ... is mostly written in Python with an average number of source code comments
- ... has a **well established, mature** codebase maintained by a **very large** development team with **decreasing Y-O-Y** commits
- ... took an estimated **207** years of effort (COCOMO model) starting with its first commit in December, 2006 ending with its most recent commit about 1 month ago

## Languages



## Lines of Code



## 30 Day Summary

Mar 18 2014 — Apr 17 2014

**1343** Commits

**45** Contributors  
including 7 new contributors

## 12 Month Summary

Apr 17 2013 — Apr 17 2014

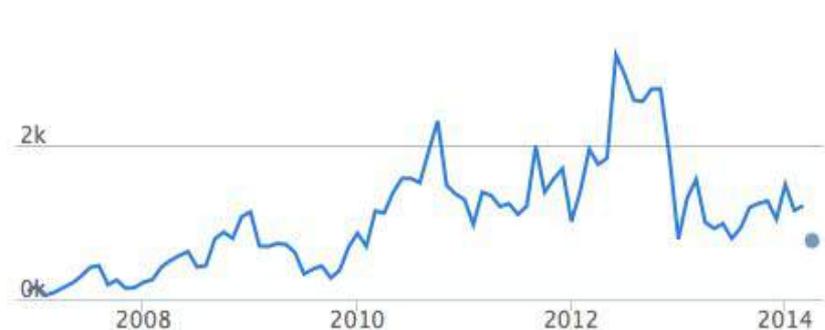
**13571** Commits

Down **-11979 (46%)** from previous 12 months

**179** Contributors

Down **-87 (32%)** from previous 12 months

## Commits per Month



## In a Nutshell, Drupal (core)...

... has had **94,504** commits made by **149** contributors representing **1,060,131** lines of code

... is mostly written in PHP with an average number of source code comments

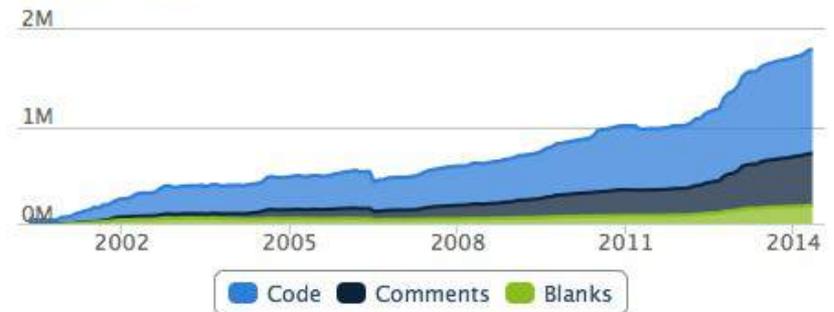
... has a well established, mature codebase maintained by a large development team with stable Y-O-Y commits

... took an estimated **297** years of effort (COCOMO model) starting with its first commit in May, 2000 ending with its most recent commit 2 days ago

## Languages



## Lines of Code



## 30 Day Summary

May 1 2014 — May 31 2014

**289** Commits  
**6** Contributors

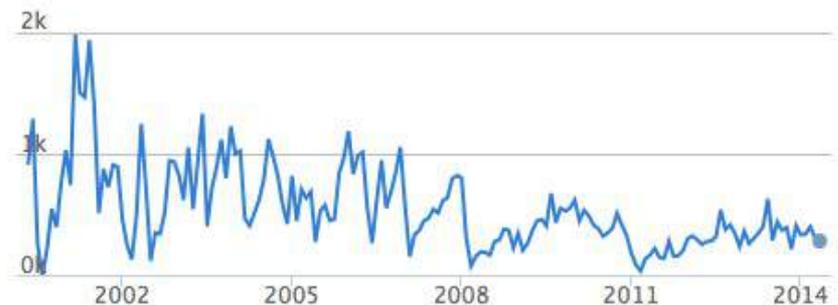
## 12 Month Summary

May 31 2013 — May 31 2014

**4527** Commits  
Up **+215 (4%)** from previous 12 months

**9** Contributors  
Down **-60 (86%)** from previous 12 months

## Commits per Month



## In a Nutshell, Magento...

- ... has had 499 commits made by 8 contributors representing 8,331,528 lines of code
- ... is mostly written in PHP with a well-commented source code
- ... has a well established, mature codebase maintained by a average size development team with stable Y-O-Y commits
- ... took an estimated 2,536 years of effort (COCOMO model) starting with its first commit in June, 2008 ending with its most recent commit 3 days ago

## Languages



## Lines of Code



## 30 Day Summary

Apr 30 2014 — May 30 2014

5 Commits  
1 Contributor

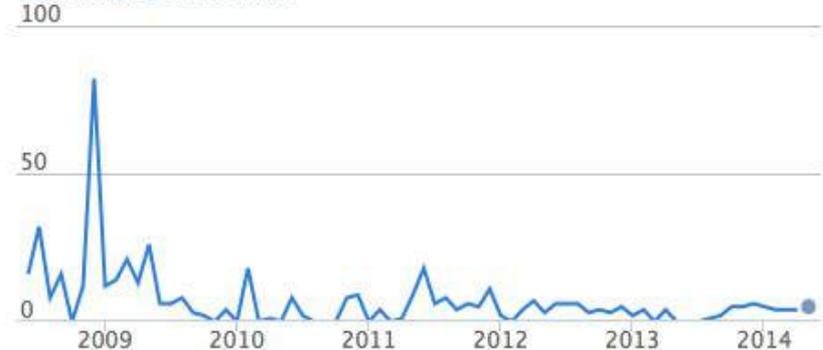
## 12 Month Summary

May 30 2013 — May 30 2014

41 Commits  
Down -2 (4%) from previous 12 months

4 Contributors  
Up +2 (100%) from previous 12 months

## Commits per Month



## In a Nutshell, PrestaShop...

... has had 25,861 commits made by 277 contributors representing 284,845 lines of code

... is mostly written in PHP with an average number of source code comments

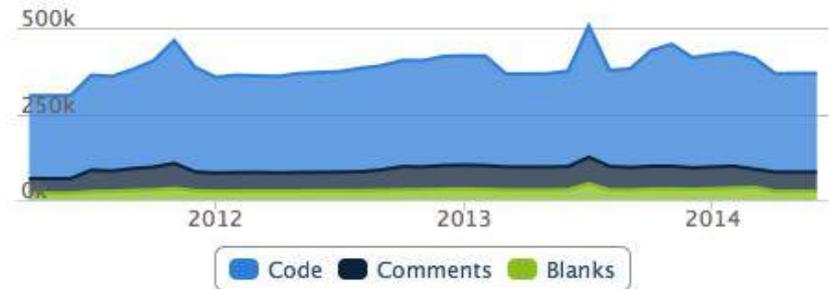
... has a codebase with a long source history maintained by a very large development team with stable Y-O-Y commits

... took an estimated 74 years of effort (COCOMO model) starting with its first commit in April, 2011 ending with its most recent commit 3 days ago

## Languages



## Lines of Code



## 30 Day Summary

May 2 2014 — Jun 1 2014

344 Commits

34 Contributors  
including 12 new contributors

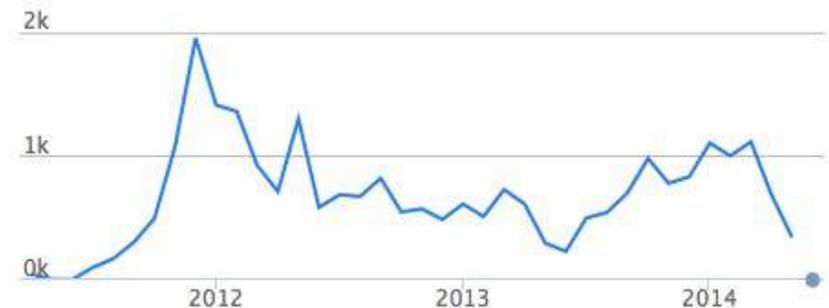
## 12 Month Summary

Jun 1 2013 — Jun 1 2014

8836 Commits  
Up +1689 (23%) from previous 12 months

197 Contributors  
Up +106 (116%) from previous 12 months

## Commits per Month



odoo

Conclusion

## Performance :

- Odoo is 3x times faster than the Drupal
- Odoo is 6x times faster than the Magento
- Odoo is 2x times faster than the Prestashop

## Scalability :

- Odoo timeout at 198 users
- Drupal timeout at 125 users
- Magento timeout at 148 users
- Prestashop timeout at 104 users

## Maintainability :

- 1.3x times smaller than the drupal
- 5.5x times smaller than the magento
- 1.9x times smaller than the prestashop

odoo

Questions ?



# Thank You

Odoo  
sales@odoo.com  
+32 (0) 2 290 34 90  
www.odoo.com

**R&D and services office**  
Chaussée de Namur 40  
B-1367 Grand Rosière

**Sales office**  
Avenue Van Nieuwenhuyse 5  
B-1160 Brussels