



Marco Cecconi

# High perf architecture

Twitter: @sklivvz

Blog: <http://sklivvz.com>

# Follow along



## **Architecture:**

1. the art or science of building;  
*specifically*: the art or practice of  
designing and building structures and  
especially habitable ones

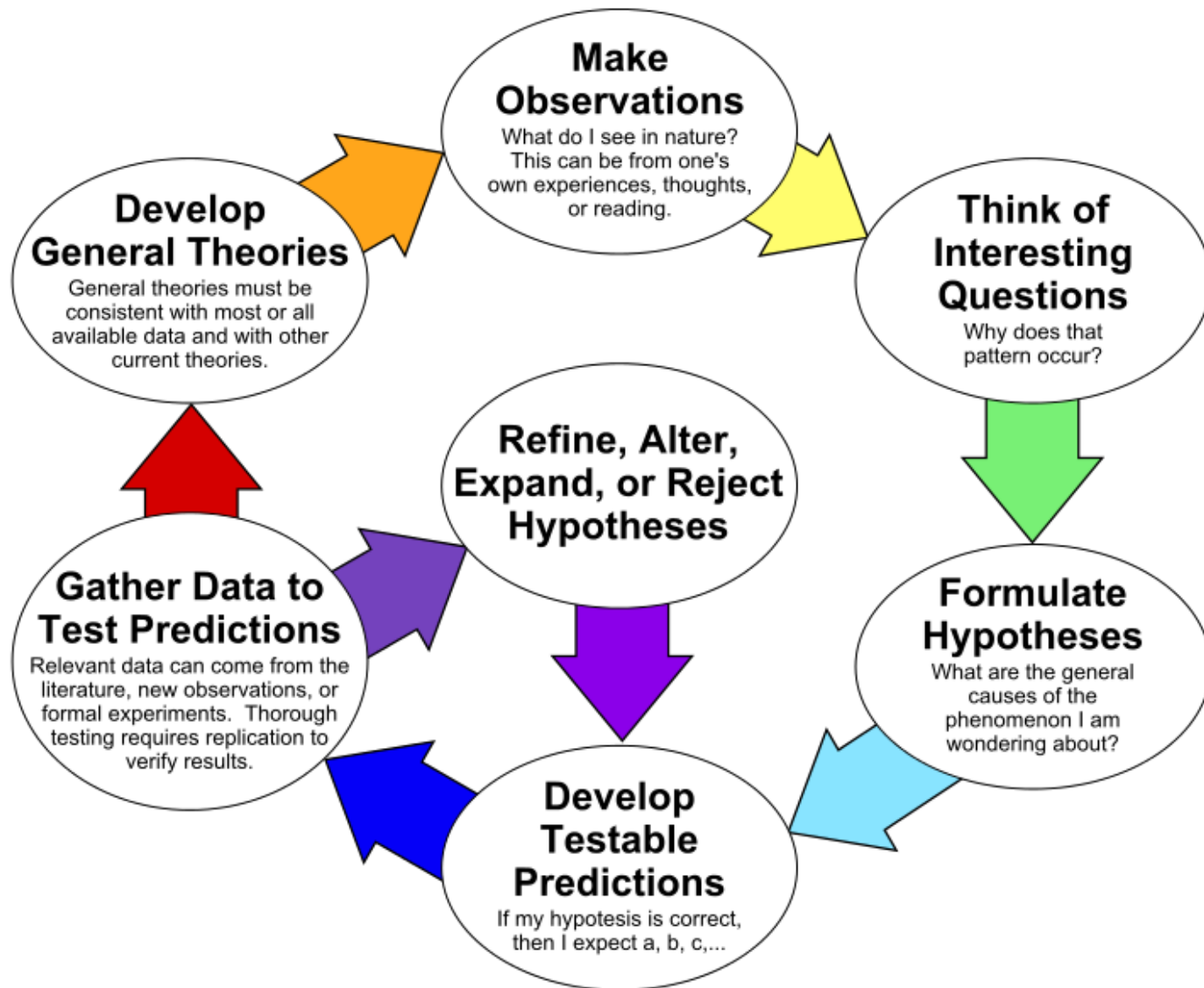
- Durability
- Utility
- Beauty

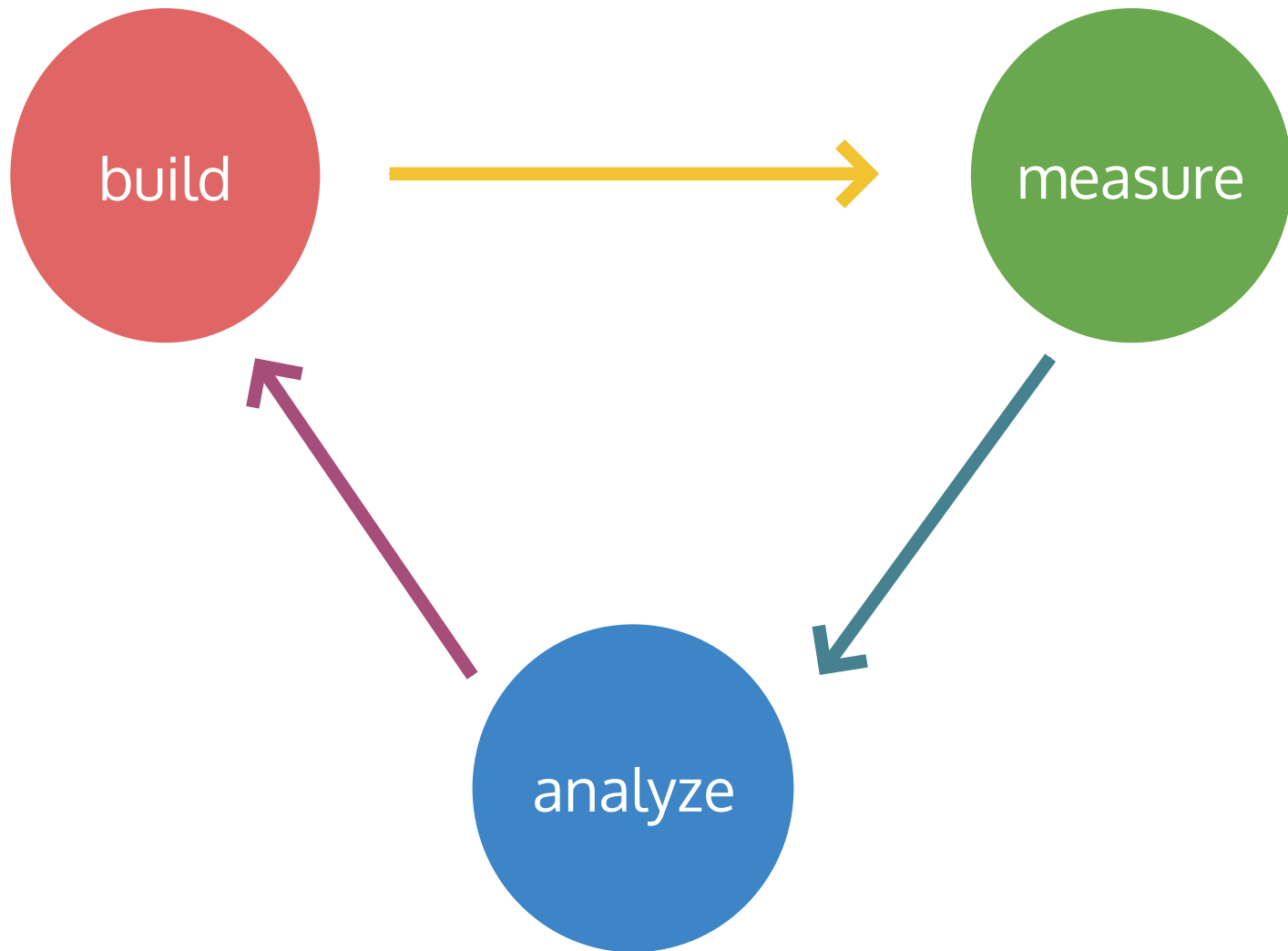


## **Performance:**

1. (*efficiency*) the ability to do something or produce something without wasting materials, time, or energy

# The Scientific Method as an Ongoing Process



























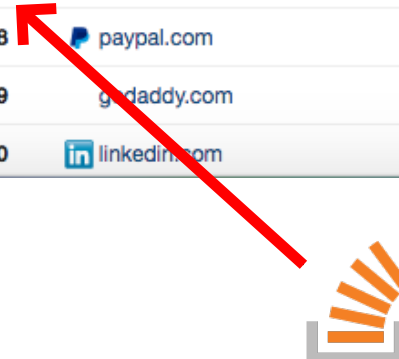
Santelle della Val Taleggio - [www.valbrembanaweb.com](http://www.valbrembanaweb.com)





RANK	SITE	MONTHLY PEOPLE
1	 google.com	235,230,320
2	 youtube.com	204,892,336
3	 facebook.com	148,510,880
4	 msn.com	142,251,456
5	 bing.com	116,038,360
6	 yahoo.com	108,290,000
7	 amazon.com	94,959,056
8	 twitter.com	91,830,568
9	 ebay.com	82,584,696
10	 yelp.com	77,567,040

11	 live.com	58,735,832
12	 microsoft.com	58,302,040
13	 buzzfeed.com	56,997,960
14	 netflix.com	56,602,660
15	 pinterest.com	49,656,916
16	 wikia.com	41,264,544
17	 wikipedia.org	39,633,696
18	 paypal.com	38,511,168
19	 godaddy.com	37,978,120
20	 linkedin.com	37,472,296





**CNBC**

HOME U.S. ▾ NEWS MARKETS INVESTING TECH

# North Korea accidentally lets world access its internet and it only has 28 websites

Arjun Kharpal | [@ArjunKharpal](#)











Wednesday, 21 Sep 2016 | 4:53 AM ET

--

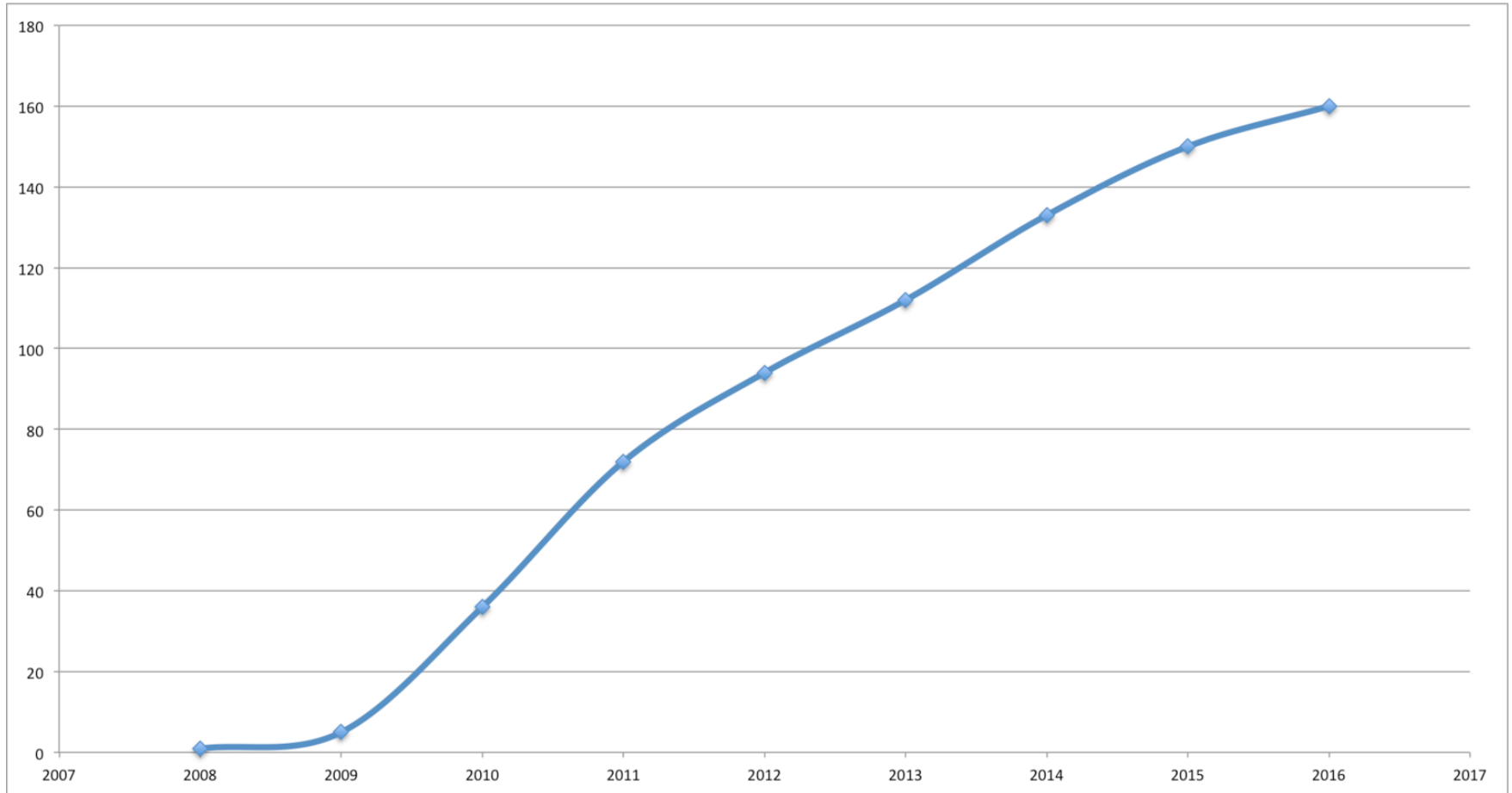




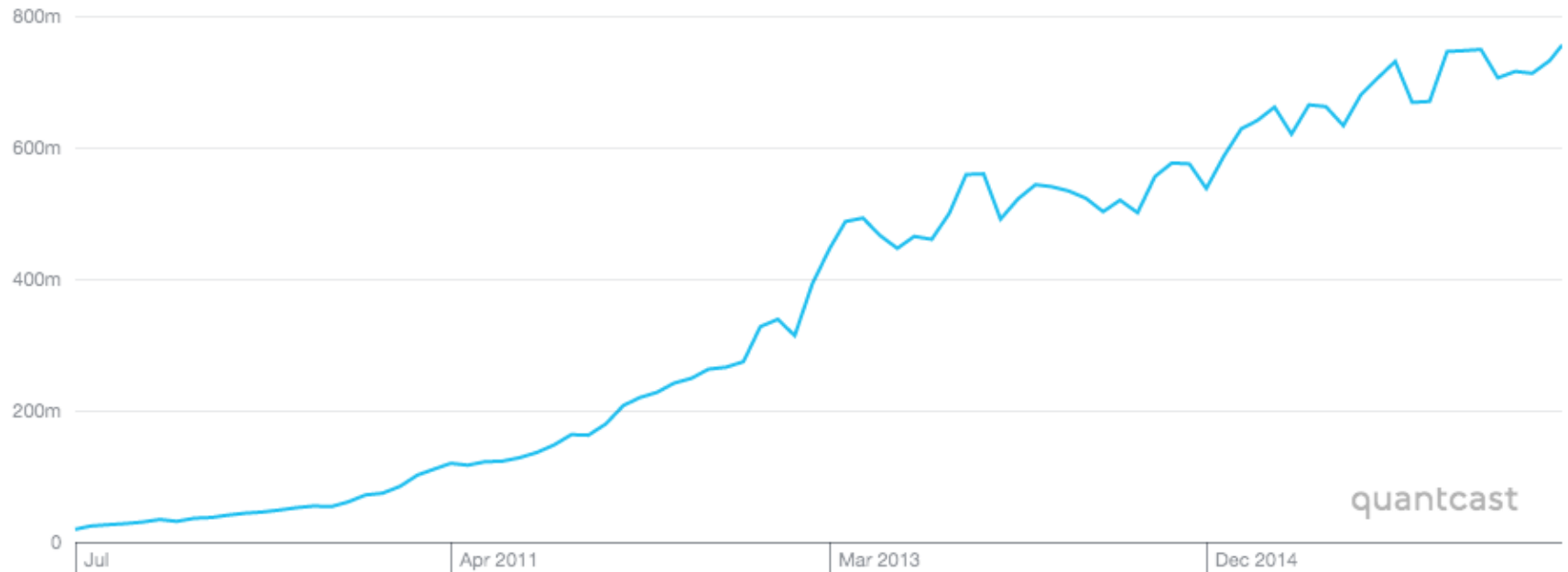


RANK	SITE	MONTHLY PEOPLE
1	 <a href="https://stackoverflow.com">stackoverflow.com</a>	244
2	 <a href="https://stackexchange.com">stackexchange.com</a>	115
3	 Hidden profile	—
4	 <a href="https://askubuntu.com">askubuntu.com</a>	62
5	 <a href="https://filehippo.com">filehippo.com</a>	61
6	 <a href="https://superuser.com">superuser.com</a>	58
7	 <a href="https://howtogeek.com">howtogeek.com</a>	36
8	 <a href="https://sciencedaily.com">sciencedaily.com</a>	27
9	 <a href="https://serverfault.com">serverfault.com</a>	24
10	 <a href="https://instructables.com">instructables.com</a>	23

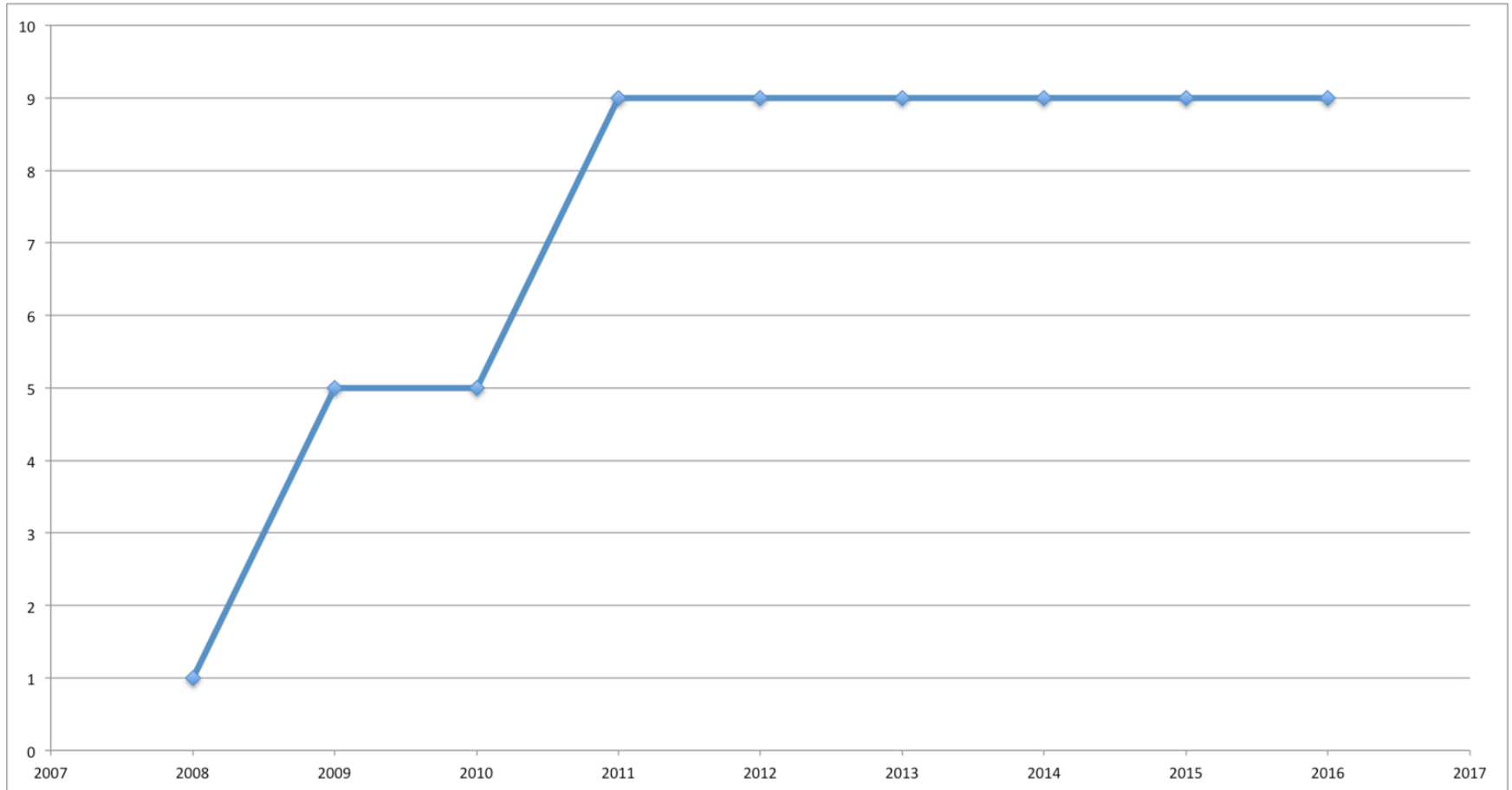
# Stack Exchange network (sites)

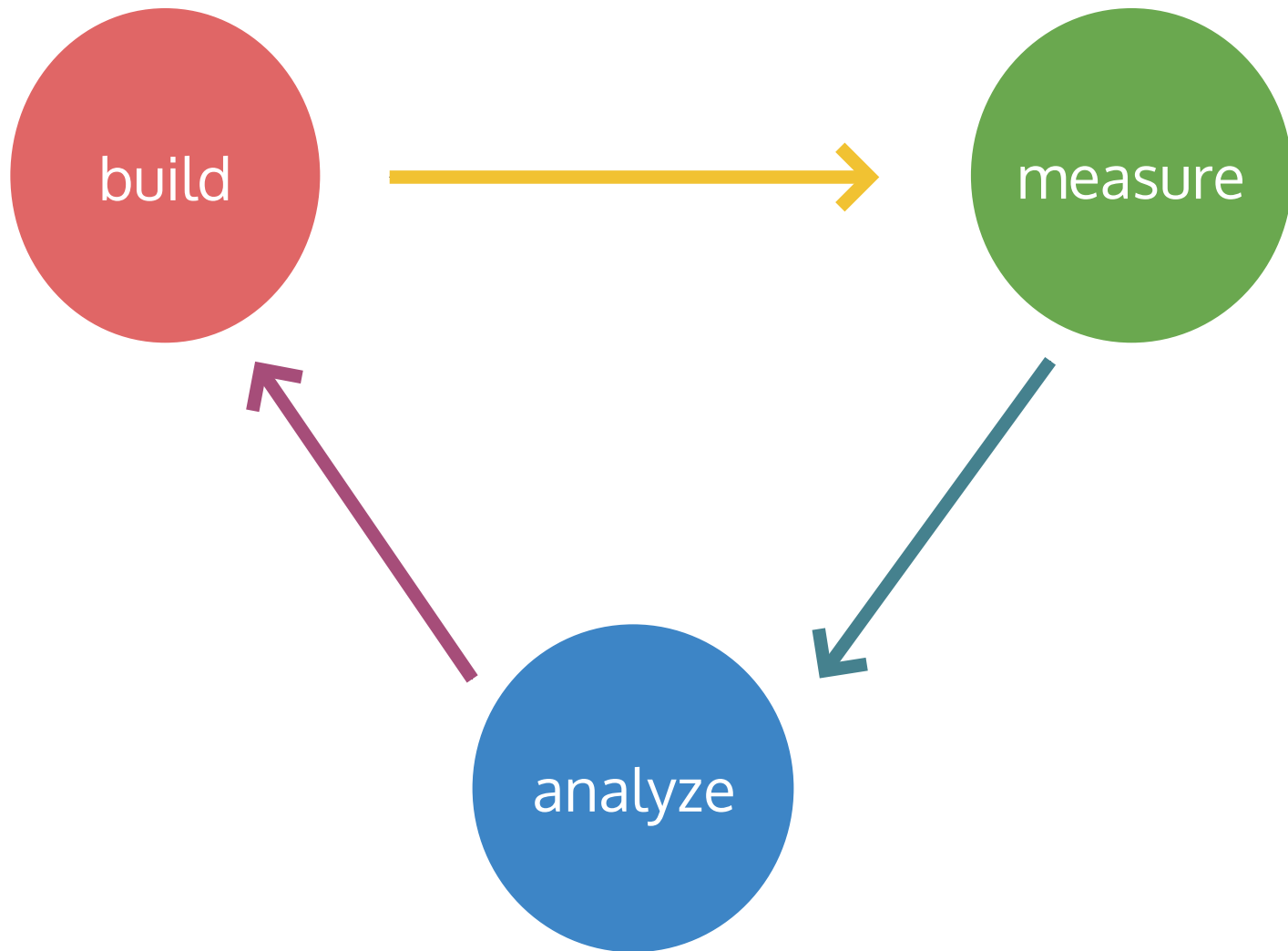


# Stack Exchange network (pageviews)



# Stack Exchange network (web servers)







6 Issues[Dashboard](#)[SQL](#)[Redis](#)[Elastic](#)[CloudFlare](#)[PagerDuty](#)

### Database Servers

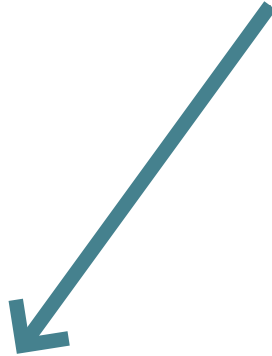
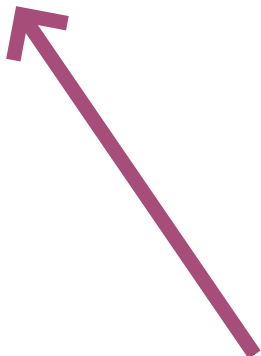
Node	CPU	Memory	Network
● NY-SQL01	22 %	365.45 GB / 383.97 GB (95.18%)	9.20 Mb/s
● NY-SQL02	5 %	371.71 GB / 383.97 GB (96.81%)	184.68 Mb/s
● NY-SQL03	9 %	743.11 GB / 767.92 GB (96.77%)	18.33 Mb/s
● NY-SQL04	16 %	744.68 GB / 767.92 GB (96.98%)	78.35 Mb/s

### Web Servers

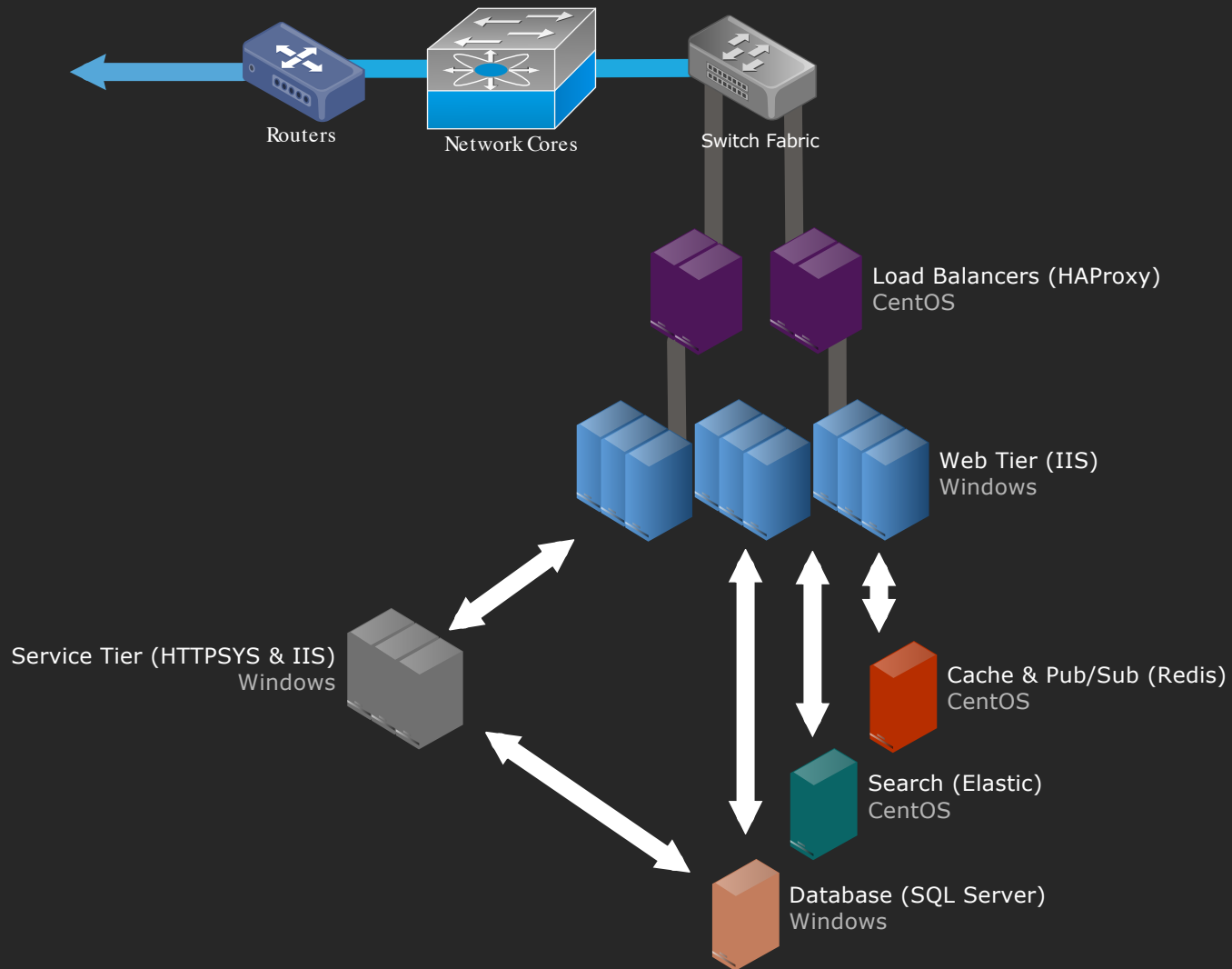
Node	CPU	Memory	Network
● NY-PROMOWEB01	4 %	1.35 GB / 4.02 GB (33.80%)	42.08 Kb/s
● NY-PROMOWEB02	0 %	1.36 GB / 4.02 GB (34.07%)	41.07 Kb/s
● NY-WEB01	13 %	47.93 GB / 63.92 GB (75.00%)	124.84 Mb/s
● NY-WEB02	5 %	45.16 GB / 63.92 GB (70.66%)	59.42 Mb/s
● NY-WEB03	6 %	41.91 GB / 63.92 GB (65.59%)	95.29 Mb/s
● NY-WEB04	7 %	44.91 GB / 63.92 GB (70.27%)	66.54 Mb/s
● NY-WEB05	5 %	44.15 GB / 63.92 GB (69.08%)	58.38 Mb/s
● NY-WEB06	7 %	43.40 GB / 63.92 GB (67.91%)	2.49 Mb/s
● NY-WEB07	11 %	44.63 GB / 63.92 GB (69.84%)	81.98 Mb/s
● NY-WEB08	6 %	46.05 GB / 63.92 GB (72.06%)	56.80 Mb/s
● NY-WEB09	4 %	48.41 GB / 63.92 GB (75.75%)	77.12 Mb/s

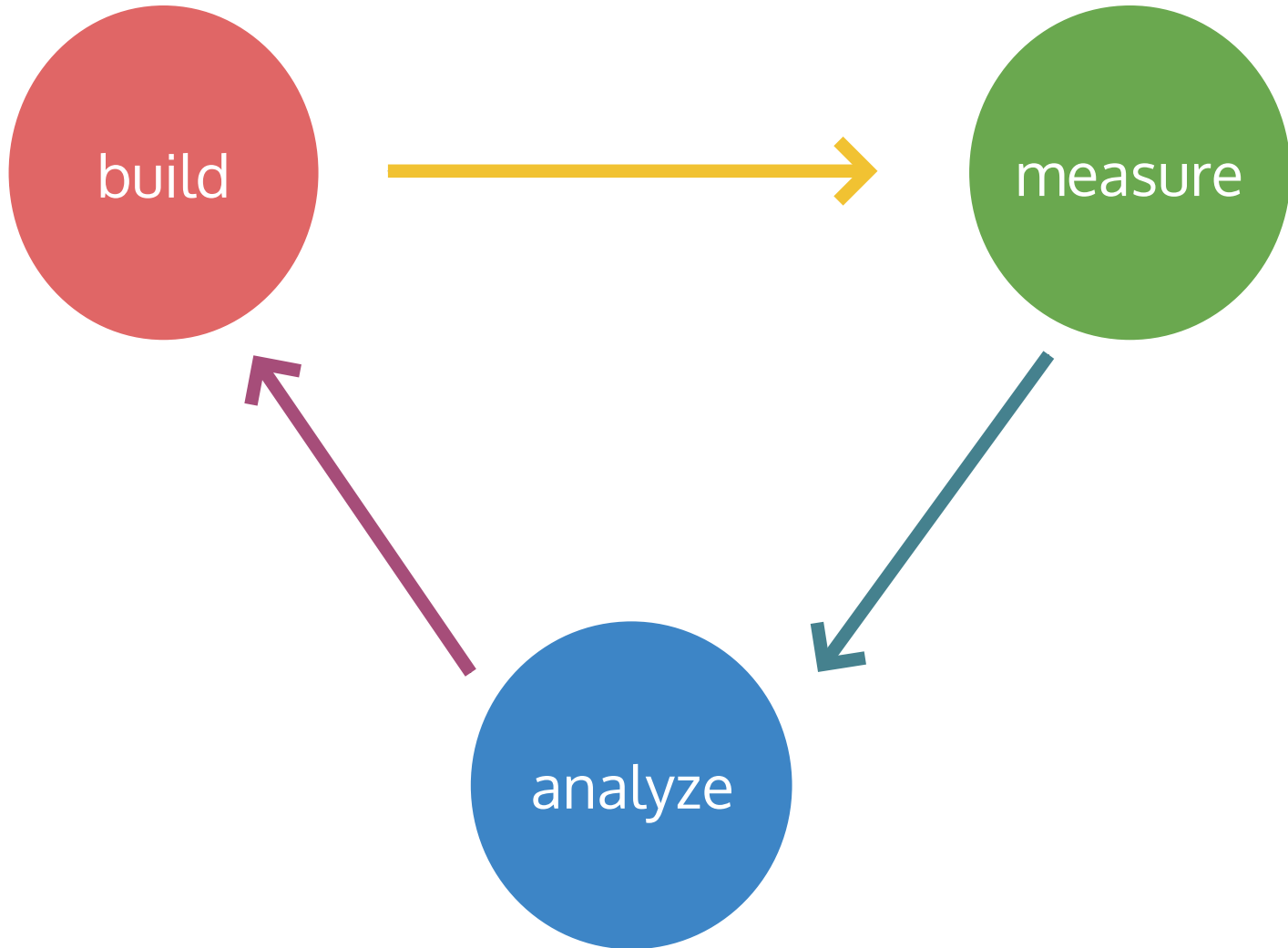
	A	B	C	D	E	F	G	H	I	J	K	L
1								Approx 12 Months			Approx 24 Mo	
2	Table	Rows	Reserved (KB)	Data (KB)	IndexSize (KB)	Unused (KB)	Projected Growth Factor: 48 Mon	Reserved Proj (KB)	Data Proj (KB)	Index Proj (KB)	Reserved Proj (KB)	Data Proj (KB)
3	Applications	1	32	24	8	0	(Avg)	46	34	11	91	
4	BadgeReasonTypes	4	16	8	8	0	(Avg)	23	11	11	46	
5	Badges	899	624	328	96	200	(Avg)	890	468	137	1,780	
6	Blacklist	5	16	8	8	0	(Avg)	23	11	11	46	
7	BlacklistTypes	6	16	8	8	0	(Avg)	23	11	11	46	
8	CloseReasons	5	16	8	8	0	(Avg)	23	11	11	46	
9	Comments2Votes	1,703,245	196,944	132,096	63,840	1,008	(Avg)	280,905	188,411	91,056	561,810	371
10	EditSuggestions	0	0	0	0	0	(Avg)	0	0	0	0	
11	FrontPageCustomisationScript	114	712	568	40	104	(Avg)	1,016	810	57	2,031	
12	Log	2,933	1,816	1,240	96	480	(Avg)	2,590	1,769	137	5,180	
13	LogTypes	2	16	8	8	0	(Avg)	23	11	11	46	
14	Messages	382,438	380,768	345,296	28,936	6,536	(Avg)	543,097	492,503	41,272	1,086,194	981
15	MessageTypes	11	16	8	8	0	(Avg)	23	11	11	46	
16	Migrations	109	88	24	64	0	(Avg)	126	34	91	251	
17	ModeratorElections	0	0	0	0	0	(Avg)	0	0	0	0	
18	ModeratorMessages	27,004	8,968	6,640	2,064	264	(Avg)	12,791	9,471	2,944	25,582	11
19	PollOptions	0	0	0	0	0	(Avg)	0	0	0	0	
20	PollOptions2Votes	0	0	0	0	0	(Avg)	0	0	0	0	
21	Polls	0	0	0	0	0	(Avg)	0	0	0	0	
22	PostComments	4,985,865	4,960,128	2,086,312	2,870,888	2,928	(Avg)	7,074,729	2,975,748	4,094,805	14,149,458	5,951
23	PostHistory	9,711,396	25,669,704	13,145,432	12,515,544	8,728	5.625	36,098,021	18,485,764	17,599,984	72,196,043	36,971
24	PostHistoryTypes	22	16	8	8	0	(Avg)	23	11	11	46	
25	PostLinks	30,293,460	3,716,480	1,833,312	1,878,608	4,560	(Avg)	5,300,889	2,614,889	2,679,496	10,601,778	5,221
26	PostMigrationHistory	1,476	14,776	11,664	152	2,960	(Avg)	21,075	16,637	217	42,151	31
27	PostReferrals	277,702	38,832	38,072	256	504	(Avg)	55,387	54,303	365	110,774	101
28	Posts	4,595,371	13,513,760	8,700,656	4,787,664	25,440	5.268	17,797,622	11,458,764	6,305,353	35,595,244	22,911
29	Posts2Votes	10,862,067	5,649,648	1,128,040	4,516,944	4,664	5.264	7,434,937	1,484,501	5,944,298	14,869,874	2,961
30	PostTags	3,774,118	499,384	176,008	322,320	1,056	(Avg)	712,281	251,044	459,731	1,424,563	501
31	PostTypes	3	16	8	8	0	(Avg)	23	11	11	46	
32	PrivilegeTypeNotifications	786,315	43,224	22,640	20,320	264	(Avg)	61,651	32,292	28,983	123,302	61





	A	B	C	D	E	F	G	H	I	J	K	L
1	Table	Items	Reserved [K]	Quota [KB]	IndexSize [KB]	Unused [KB]	Projected Growth: Min-Max	Reserved [KB]	Approx 24 Months	Index [KB]	Reserved [KB]	Approx 24 Months
2	Applications		1	32	24	24			46	34	11	91
3	BadgeHeaderTypes		5	16	8	8			23	11	11	46
4	Badges		889	624	328	96	0	0	889	688	137	1,760
5	Blacklist		5	16	8	8	0		23	11	11	46
6	BlacklistTypes		5	16	8	8	0		23	11	11	46
7	Closetypes		5	16	8	8	0		23	11	11	46
8	CommentsVotes		1,703,265	196,944	132,568	68,840	1,008	0	286,906	188,411	91,056	566,830
9	ContentCategories		114	72	48	24	0		1,016	800	37	2,213
10	FrontPageCustomizationScript		2,883	1,816	1,240	480	0	0	2,883	1,816	1,240	4,800
11	LikeTypes		2	16	8	8	0		23	11	11	46
12	Messages		362,438	265,588	340,296	28,976	8,968	6,536	343,007	492,109	412,772	1,086,146
13	MessageTypes		11	16	8	8	0		23	11	11	46
14	Migrations		129	88	64	24	0		126	94	94	231
15	ModComments		0	0	0	0	0	0	0	0	0	0
16	ModeratorMessages		27,006	8,968	6,640	2,664	264		12,791	6,471	2,944	23,582
17	Notifications		0	0	0	0	0	0	0	0	0	0
18	PolloptionsTypes		0	0	0	0	0	0	0	0	0	0
19	PostComments		4,985,865	4,960,128	2,086,312	2,870,884	2,929	0	7,074,729	2,975,768	4,084,805	14,149,458
20	PostHistory		50,791,698	25,669,720	18,814,632	12,515,544	8,728	5,625	36,969,071	18,485,764	17,599,981	72,196,433
21	PostHistoryTypes		21	16	8	8	0		23	11	11	46
22	Portals		30,283,460	3,716,480	1,831,624	1,878,608	556	0	30,089,889	2,614,889	2,678,496	5,229
23	PortalsTypes		16	16	8	8	0		23	11	11	46
24	PostFeedItems		277,572	38,632	38,632	27	256	504	55,887	54,903	365	10,574
25	Posts		4,295,391	13,513,760	8,970,656	4,797,664	25,440	0	5,268	17,737,622	11,458,764	8,051,935
26	PostTypes		1,882,287	3,698,648	1,129,464	1,664	1,664	0	7,434,937	2,484,283	2,484,283	2,484,283
27	PostTags		3,784,118	699,384	176,008	32,320	1,056	0	712,281	221,064	459,792	1,314,653
28	PostTypes		5	16	8	8	0		23	11	11	46
29	PrivateTypeNotifications		798,353	43,224	22,640	20,320	264	0	46,651	32,392	28,928	123,382





```
203
204 private static List<HelpPost> All()
205 {
206     return Current
207         .GlobalCache
208         .GetSet<List<HelpPost>>(
209             CacheKey,
210             (old, ctx) =>
211             {
212                 using (SitesDBContext sitesDb = SitesDBContext.NewContext())
213                 {
214                     return sitesDb.Query<HelpPost>(@"SELECT p.Id, p.Title, p.Bc
215                 }
216             }, 24 * 60 * 60, 24 * 60 * 60);
217     }
218
```



## Error message 'Unable to load property for more information.'



229



64

I have developed an application using Enterprise Library.

It works absolutely fine locally, but when the following error:

Unable to load one or more of the required more information

Stack trace: at System.Reflection.Mod

at System.Reflection.Assembly.GetTyp

at

System.Data.Metadata.Edm.ObjectType bly>LoadingContext context)

### Questions/Show

NY-WEB01 on Thu, 22 Sep 2016 22:06:03 GMT

	duration	sql	redis
http://stackoverflow.com:80/questions/1091853...	4.8		
Account lookup	4.6	4.3 (2)	
Get question and check redirects	2.3	2.2 (1)	
LoadAnswers - Post.Answers.cs:46	3.0	2.9 (1)	
Load up users	3.1	3.0 (1)	
GetTopComments - PostComment.ViewMod...	5.1	5.0 (1)	
VotesCast.Json	3.8	3.7 (1)	
Moderator magic	2.6	2.6 (1)	
Preload deletion info	6.0	5.7 (2)	
Prefetching answer statuses	3.1	2.9 (1)	
mainbar	2.5	2.2 (1)	
Render partial: ~/Views/Shared/ShowQues...	2.9	2.4 (1)	
Render partial: ~/Views/Posts/Render/...	12.6	12.0 (3!)	
Render partial: ~/Views/Questions/Rend...	3.3	2.9 (1)	
Render partial: ~/Views/Shared/Status...	4.1	3.8 (1)	
Render partial: ~/Views/Questions/Rend...	3.3	2.8 (1)	
Render partial: ~/Views/Shared/Status...	3.9	3.8 (1)	
Answer loop	2.2		
Render partial: ~/Views/Shared/ShowA...	39.4		
Render partial: ~/Views/Posts/Render/...	8.8	8.3 (2)	
Render partial: ~/Views/Posts/Render/...	4.0	3.7 (1)	
Render partial: ~/Views/Posts/Render/...	7.7	7.3 (2)	
Render partial: ~/Views/Posts/Render/...	7.8	7.4 (2)	
body	14.8	2.5 (1)	11.0 (7)
Render partial: ~/Views/TopBar/TopBar.cs	2.3		1.9 (1)

191.3 ms !

Badges

oaderE:

go

mes

ago

ETA

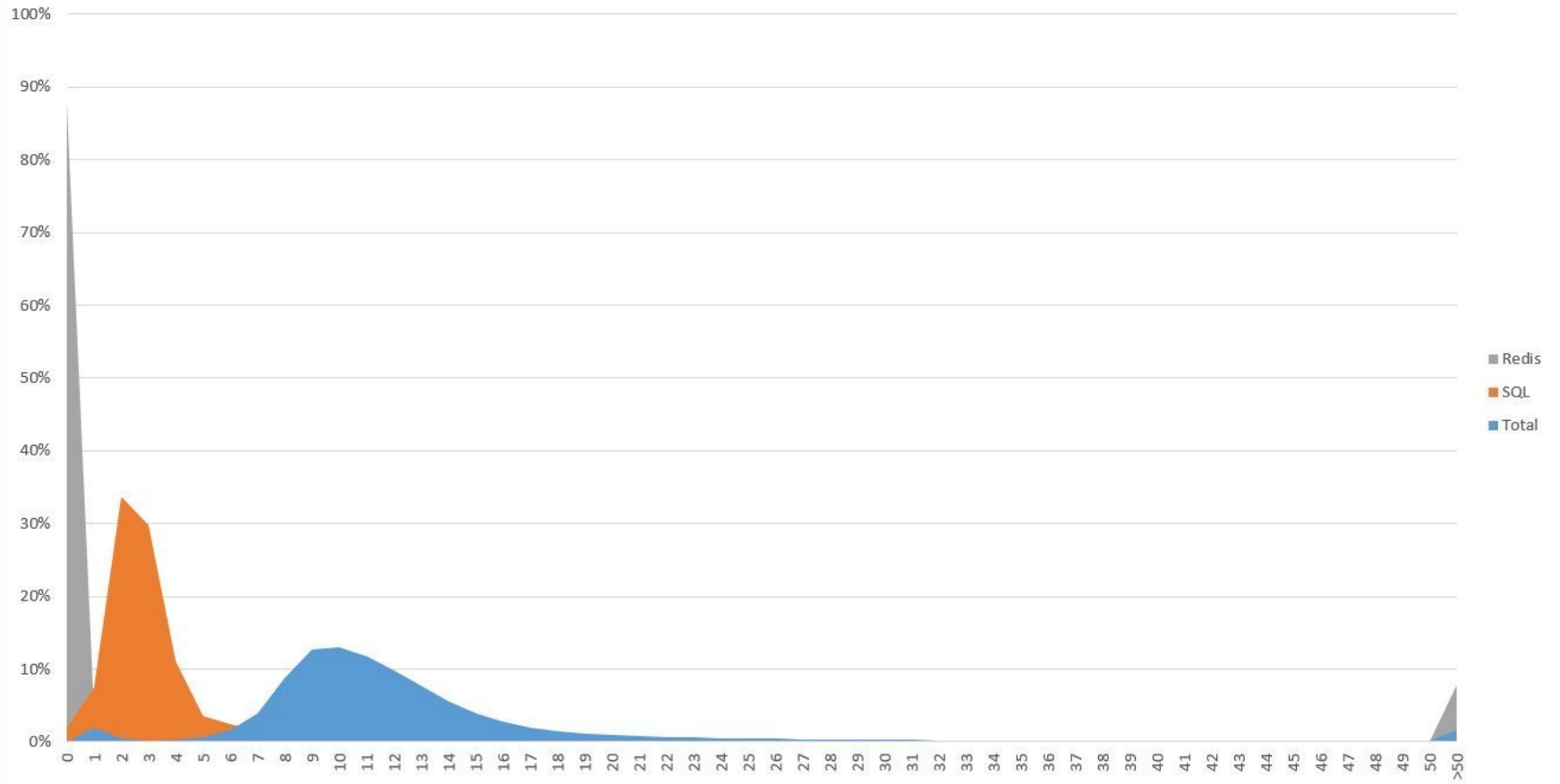
ation Reputa

ation Update

answer be visib

even if my reputation is

Timings for Question Page



```

203
204 private static List<HelpPost> All()
205 {
206     return Current
207         .GlobalCache
208         .GetSet<List<HelpPost>>(
209             CacheKey,
210             (old, ctx) =>
211             {
212                 using (SitesDbContext sitesDb = SitesDbContext.NewContext())
213                 {
214                     return sitesDb.Query<HelpPost>(@"SELECT p.Id, p.Title, p.Body
215                                     FROM HelpPost p
216                                     WHERE p.IsApproved = 1
217                                     ORDER BY p.Id DESC
218                                     );, 24 * 60 * 60, 24 * 60 * 60);
219             }
220 }

```



StackExchange

Questions/Show

NY-WEB01 on Thu, 22 Sep 2016 22:58:03 GMT

duration: 4.8 ms

http://stackoverflow.com/questions/1091853...

Account lookup: 4.6 ms (2)

Get question and check redirects: 2.3 ms (1)

Load answers - PostAnswers.cs:46: 3.8 ms (1)

Load up users: 3.1 ms (1)

GetTopComments - PostComment.ViewMod...: 5.1 ms (1)

VotesCast.json: 3.8 ms (1)

Moderator magic: 2.6 ms (1)

Preload deletion info: 6.8 ms (2)

Prefetching answer statuses: 3.1 ms (1)

member: 2.5 ms (1)

Render partial: ~Views/Shared/ShowQue...: 2.9 ms (1)

Render partial: ~Views/Posts/Render...: 12.6 ms (1)

Render partial: ~Views/Questions/Render...: 3.3 ms (1)

Render partial: ~Views/Questions/Status...: 4.1 ms (1)

Render partial: ~Views/Questions/Render...: 3.3 ms (1)

Render partial: ~Views/Shared/Status...: 3.9 ms (1)

Answer loop: 2.2 ms

Stack trace: at System.Reflection.Mod...  
at System.Reflection.Assembly.GetTy...  
at System.Data.Metadata.Edm.ObjectIte...  
by(LoadingContext context)

Unable to load one or more of the req...  
more information

229

64

Badges

LeaderE...

go  
mes  
ago

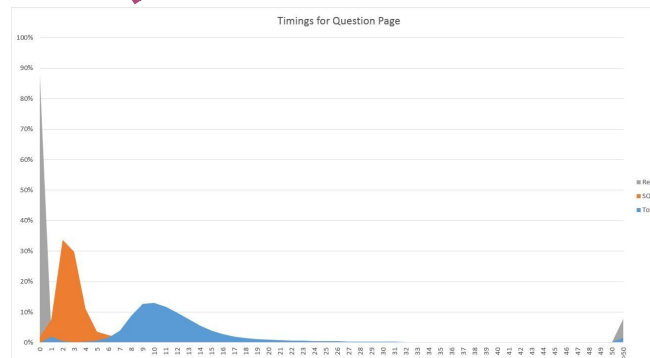
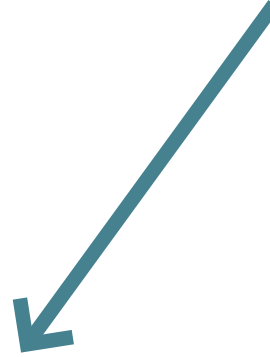
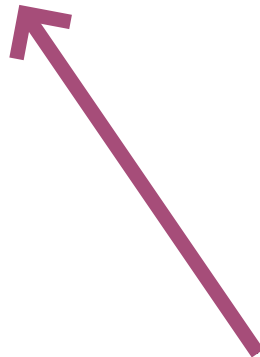
TA

ation Reputa

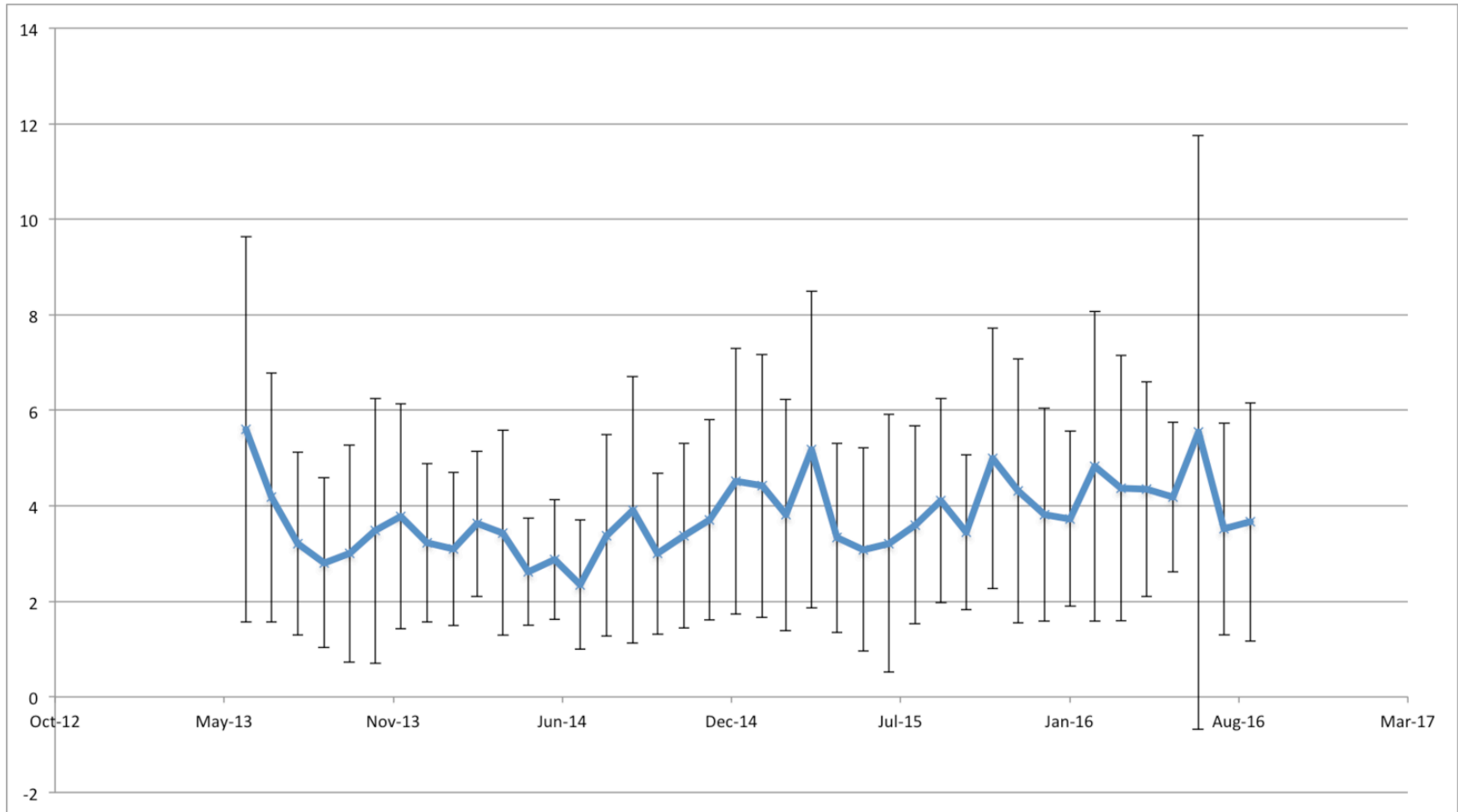
ation Update

ower be visib

even my reputation is



# Production Deployments per day





## Help Center

New to Stack Overflow? Find out everything you need to get started by taking the tour. If you still have questions, come back and check out the pinned articles.

[Take the tour](#)

Here's how it works:



Anybody can ask a question



Anybody can answer



The best answers are voted up and rise to the top

[search](#)

## Find out more about...

### Asking

- ✧ [What topics can I ask about here?](#)
- ✧ [What types of questions should I avoid asking?](#)
- ✧ [What does it mean if a question is "closed" or "on hold"?](#)

[Why are questions no longer being accepted from my account?](#)

[Why and how are some questions deleted?](#)

» [View more](#)

### Our model

- ✧ [What kind of behavior is expected of users?](#)
- ✧ [How do I find topics I'm interested in?](#)

[How do I search?](#)

[What is "meta"? How does it work?](#)

[How do I format my posts using Markdown or HTML?](#)

» [View more](#)

### Reputation & Moderation

[What is a bounty? How can I start one?](#)

[What is reputation? How do I earn \(and lose\) it?](#)

[Who are the site moderators, and what is their role here?](#)

[Why is voting important?](#)

» [View more](#)

```
203
204 private static List<HelpPost> All()
205 {
206     return Current
207         .GlobalCache
208         .GetSet<List<HelpPost>>(
209             CacheKey,
210             (old, ctx) =>
211             {
212                 using (SitesDBContext sitesDb = SitesDBContext.NewContext())
213                 {
214                     return sitesDb.Query<HelpPost>(@"SELECT p.Id, p.Title, p.Bc
215                 }
216             }, 24 * 60 * 60, 24 * 60 * 60);
217     }
218
```

have earned at least 10 reputation on this site.

## 62 Answers

active

oldest

votes

1 2 3 next

ants

4431



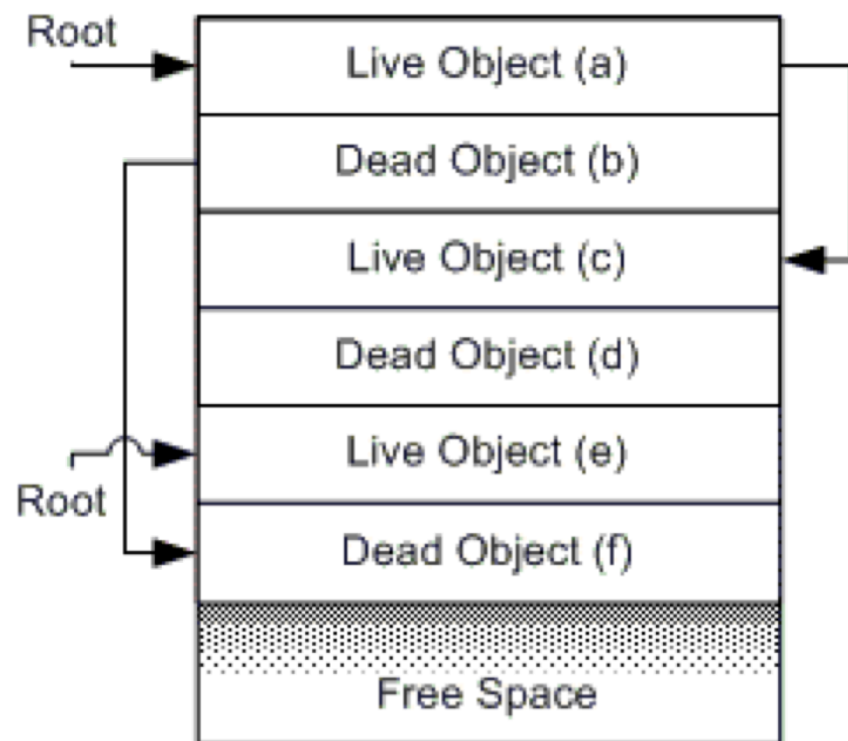
You can't parse [X]HTML with regex. Because HTML can't be parsed by regex. Regex is not a tool that can be used to correctly parse HTML. As I have answered in HTML-and-regex questions here so many times before, the use of regex will not allow you to consume HTML. Regular expressions are a tool that is insufficiently sophisticated to understand the constructs employed by HTML. HTML is not a regular language and hence cannot be parsed by regular expressions. Regex queries are not equipped to break down HTML into its meaningful parts. so many times but it is not getting to me. Even enhanced irregular regular expressions as used by Perl are not up to the task of parsing HTML. You will never make me crack. HTML is a language of sufficient complexity that it cannot be parsed by regular expressions. Even Jon Skeet cannot parse HTML using regular expressions. Every time you attempt to parse HTML with regular expressions, the unholy child weeps the blood of virgins, and Russian hackers pwn your webapp. Parsing HTML with regex summons tainted souls into the realm of the living. HTML and regex go together like love, marriage, and ritual infanticide. The <center> cannot hold it is too late. The force of regex and HTML together in the same conceptual space will destroy your mind like so much watery putty. If you parse HTML with regex you are giving in to Them and their blasphemous ways which doom us all to inhuman toil for the One whose Name cannot be expressed in the Basic Multilingual Plane, he comes. HTML-plus-regex will liquify the nerves of the sentient whilst you observe, your psyche withering in the onslaught of horror. Regex-based HTML parsers are the cancer that is killing StackOverflow *it is too late it is too late we cannot be saved* the transgression of a child ensures regex will consume all living tissue (except for HTML which it cannot, as previously prophesied) *dear lord help us how can anyone survive this scourge* using regex to parse HTML has doomed humanity to an eternity of dread torture and security holes *using regex* as a tool to process HTML establishes a breach *between this world* and the dread realm of corrupt entities (like SGML entities, but *more corrupt*) *a mere glimpse* of the world of **regex parsers for HTML will instantly** transport a *programmer's consciousness* into a world of ceaseless screaming, he comes, the pestilent slithy regex-infection will **devour your HTML** parser, application and existence for all time like Visual Basic only worse *he comes he comes do not fight he comes, his unholy radiance* destroying all enlightenment, HTML tags **leaking from your eyes like liquid pain**, the song of regular expression parsing will extinguish the voices of mortal man **from the sphere** I can see it can you see *it is beautiful* the final snuffing of the **lies of Man ALL IS LOST ALL IS LOST** the pony he comes he comes he comes the ichor permeates all MY FACE MY FACE oh god no NO NOOOO NO stop the an\*es are not real **ZALGO IS TONY THE PONY, HE COMES**

```

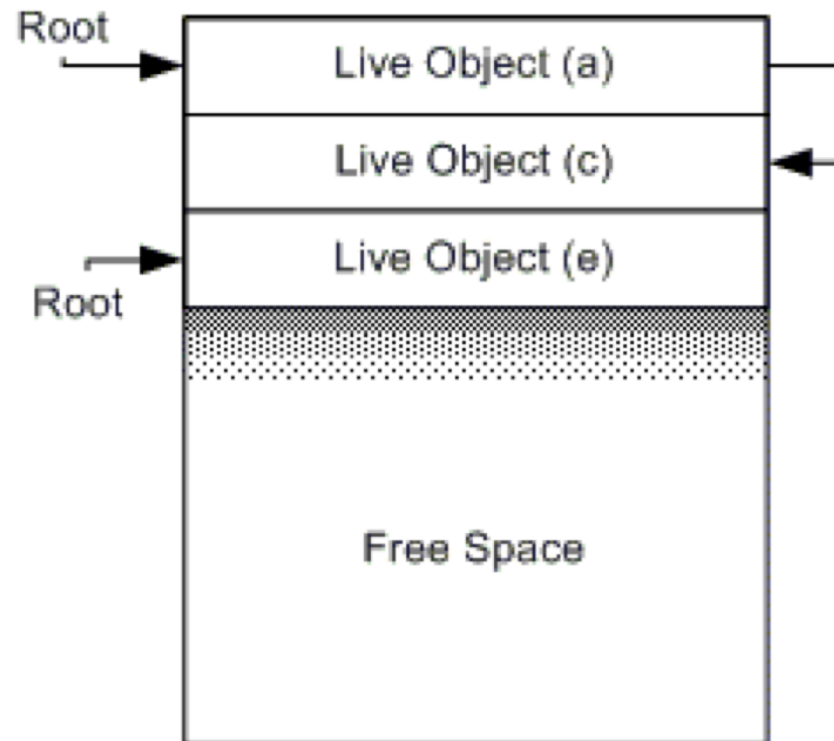
346
347 @Html.Partial("~/Views/Shared/PageTabs.cshtml", new PageTabs
348 {
349     Tabs = Current.LocalCache.GetSet<List<TabItem>>("question-show-tabs", (_1,_2) => new List<TabItem>
350     {
351         new TabItem
352         {
353             Value = ShowViewData.Tab.Active,
354             Title = _s("active"),
355             Description = _s("Answers with the latest activity first")
356         },
357         new TabItem
358         {
359             Value = ShowViewData.Tab.Oldest,
360             Title = _s("oldest"),
361             Description = _s("Answers in the order they were provided")
362         },
363         new TabItem
364         {
365             Value = ShowViewData.Tab.Votes,
366             Title = _s("votes"),
367             Description = _s("Answers with the highest score first")
368         },
369     }, 24 * 60 * 60, 24 * 60 * 60),
370     UrlFormat = Question.UrlRelative + "?answertab={0}#tab-top",
371     CurrentSelection = Model.CurrentTab
372 })
373

```

Before



After



```

346
347 @Html.Partial("~/Views/Shared/PageTabs.cshtml", new PageTabs
348 {
349     Tabs = Current.LocalCache.GetSet<List<TabItem>>("question-show-tabs", (_1,_2) => new List<TabItem>
350     {
351         new TabItem
352         {
353             Value = ShowViewData.Tab.Active,
354             Title = _s("active"),
355             Description = _s("Answers with the latest activity first")
356         },
357         new TabItem
358         {
359             Value = ShowViewData.Tab.Oldest,
360             Title = _s("oldest"),
361             Description = _s("Answers in the order they were provided")
362         },
363         new TabItem
364         {
365             Value = ShowViewData.Tab.Votes,
366             Title = _s("votes"),
367             Description = _s("Answers with the highest score first")
368         },
369     }, 24 * 60 * 60, 24 * 60 * 60),
370     UrlFormat = Question.UrlRelative + "?answertab={0}#tab-top",
371     CurrentSelection = Model.CurrentTab
372 })
373

```

```
<div class="page-description" style="width: 100%">
```

```
<p>
```

```
  @_s(@"Privileges control what you can do on $ShortName$. Gain more privileges by increasing your reputation  
      (points you receive from your fellow users for posting helpful questions and answers).", Current.Site)
```

```
</p>
```

```
</div>
```

```
this.WriteLiteral("</a></h1>\r\n    </div>\r\n\r\n\r\n\r\n    <div");
this.WriteLiteral(" class=\"page-description\"");
this.WriteLiteral(" style=\"width: 100%\"");
this.WriteLiteral(">\r\n        <p>\r\n");
this.WriteLiteral("        ");
HttpRequestBase request = this.Request;
WebViewPage page = this;
this.Write(Generated._s_d1bdXVUZhZ8N04cwjjZ7Ewóó_wr(Current.Site.ShortName, request, page));
this.WriteLiteral("\r\n        </p>\r\n    </div>\r\n\r\n\r\n\r\n    <div");
this.WriteLiteral(" class=\"subheader\"");
this.WriteLiteral(">\r\n");
```



```

public static string _s_d1bdXVUZhZ8N04cwjjZ7Ewóó_wr(object ShortName, HttpRequestBase req_d1bdXVUZhZ8N04cwjjZ7Ewóó = null, WebViewPage view_d1bdXVUZhZ8N04cwjjZ7Ewóó = null)
{
    CultureInfo currentCulture = _cultureProvider.GetCurrentCulture(req_d1bdXVUZhZ8N04cwjjZ7Ewóó, view_d1bdXVUZhZ8N04cwjjZ7Ewóó).GetCurrentCulture();
    switch (currentCulture.LCID)
    {
        case 0x19:
            view_d1bdXVUZhZ8N04cwjjZ7Ewóó.Write("Привилегии определяют набор доступных действий на сайте ");
            view_d1bdXVUZhZ8N04cwjjZ7Ewóó.Write(ShortName);
            view_d1bdXVUZhZ8N04cwjjZ7Ewóó.Write(". Повышая свою репутацию, вы открываете новые привелегии (репутация — это баллы, которые вы получаете от других пользователей за
            return string.Empty;

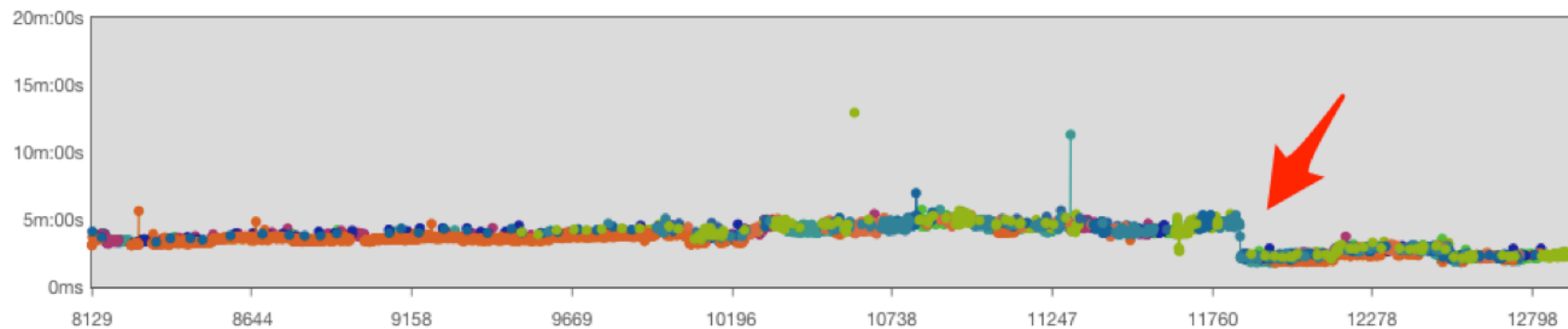
        case 0x416:
            view_d1bdXVUZhZ8N04cwjjZ7Ewóó.Write("Os privil\x00e9gios determinam o que voc\x00ea pode fazer no ");
            view_d1bdXVUZhZ8N04cwjjZ7Ewóó.Write(ShortName);
            view_d1bdXVUZhZ8N04cwjjZ7Ewóó.Write(". Quanto maior sua reputa\x00e7\x00e3o (os pontos que voc\x00ea recebe dos outros usu\x00e1rios por bons posts), mais privil\x00e9gios voc\x00
            return string.Empty;

        case 0x450:
            view_d1bdXVUZhZ8N04cwjjZ7Ewóó.Write("ÞŖ\x00efŵ\x00efŵ\x00ebġ\x00ebś ċ\x00f6ŕŧŧŖ\x00f6ĭ ŵĥ\x00e5ŧ \x00ff\x00f6ŭ ċ\x00e5ŕ d\x00f6 \x00f6ŕ ");
            view_d1bdXVUZhZ8N04cwjjZ7Ewóó.Write(ShortName);
            view_d1bdXVUZhZ8N04cwjjZ7Ewóó.Write(". Ġ\x00e5\x00efŕ m\x00f6Ŗ\x00eb þŖ\x00efŵ\x00efŵ\x00ebġ\x00ebś b\x00ff \x00efŕċŖ\x00eb\x00e5s\x00efŕġ \x00ff\x00f6ŭŕ Ŗ\x00ebþŭŧ\x00e5ŧ\x00e
            return string.Empty;

        case 9:
            view_d1bdXVUZhZ8N04cwjjZ7Ewóó.Write("Privileges control what you can do on ");
            view_d1bdXVUZhZ8N04cwjjZ7Ewóó.Write(ShortName);
            view_d1bdXVUZhZ8N04cwjjZ7Ewóó.Write(". Gain more privileges by increasing your reputation (points you receive from your fellow users for posting helpful questions and answers).");
            return string.Empty;
    }
}

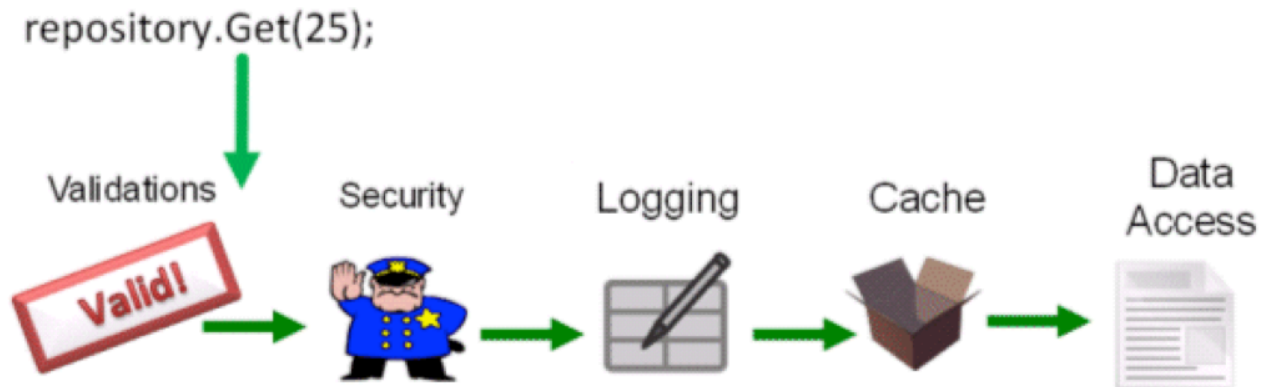
```

Build duration (excluding checkout time)

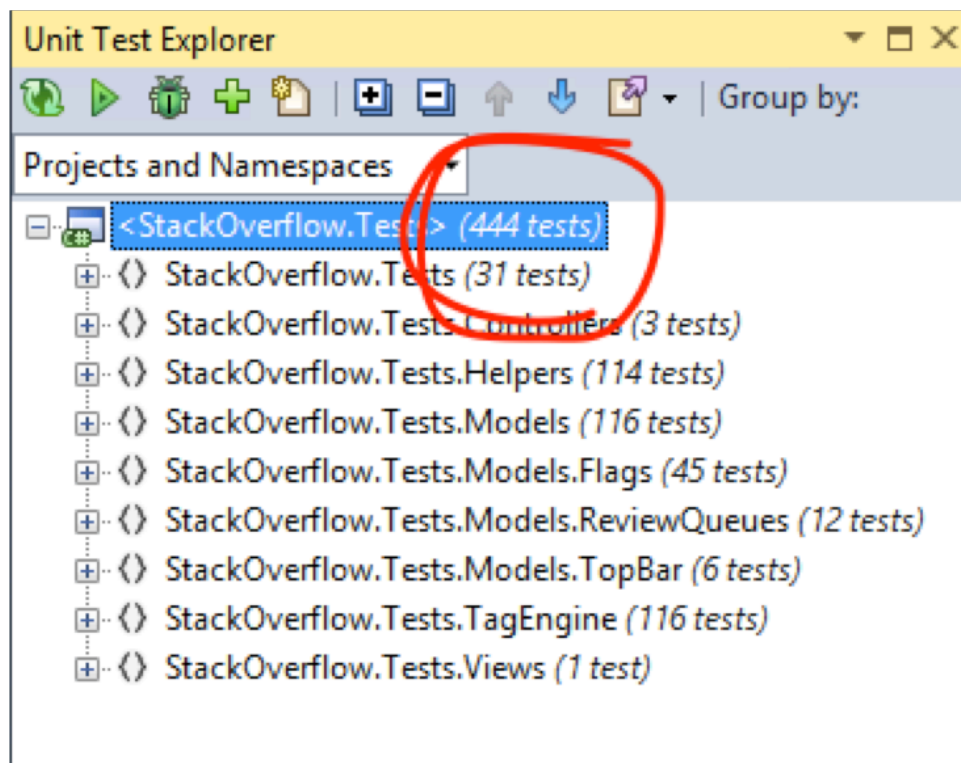


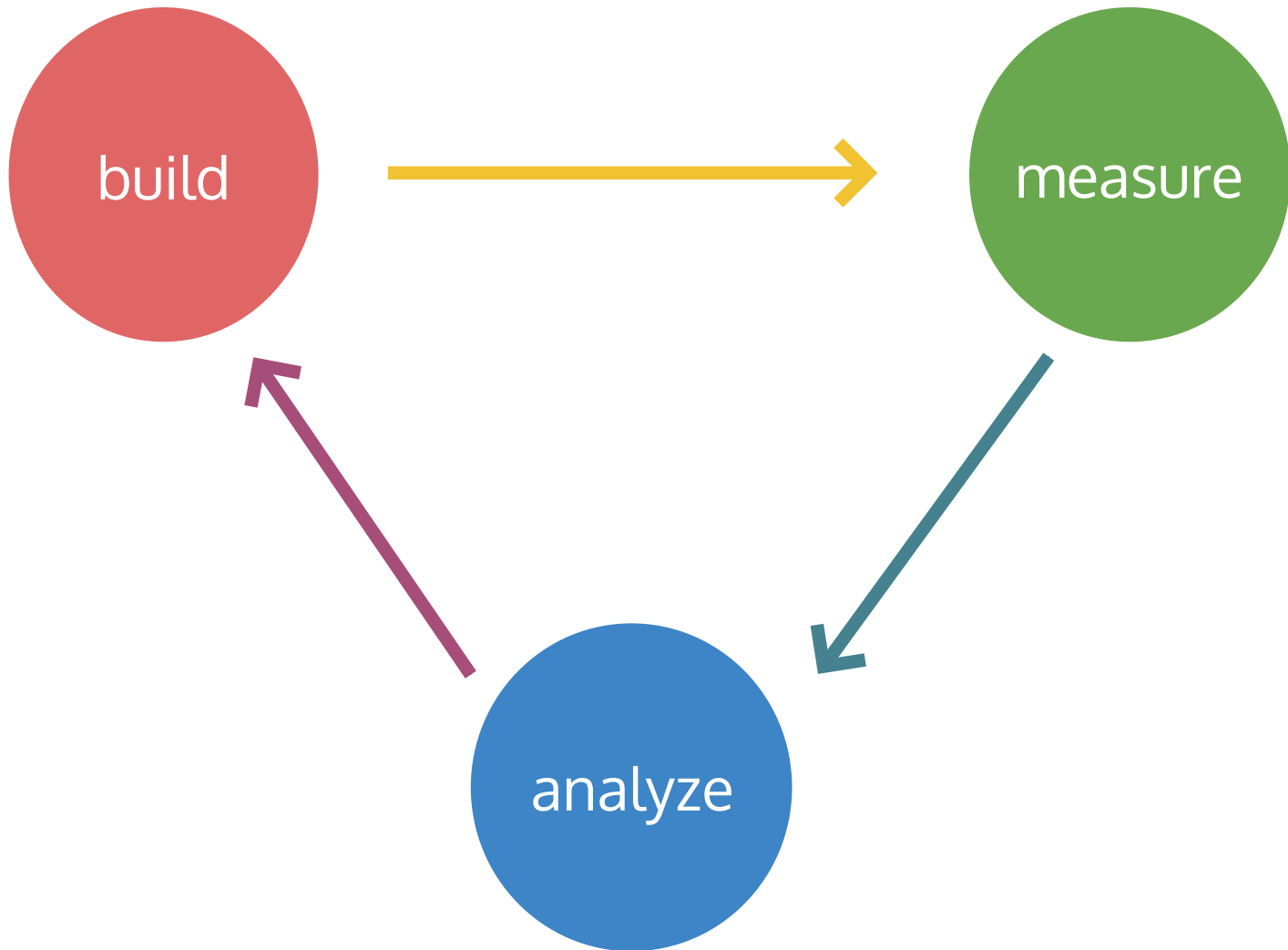
# Dependency Injection

```
IRepository<Order> repository = container.Resolve<IRepository<Order>>();  
Order order = repository.Get(25);
```



```
public IRepository<T> Resolve<T>()  
{  
    var data = new NHibernateRepository<T>();  
    var cache = new CachingRepository<T>(data);  
    var log = new LoggingRepository<T>(cache);  
    var sec = new SecurityRepository<T>(log);  
    var valid = new ValidatingRepository<T>(sec);  
  
    return valid;  
}
```





**I DON'T ALWAYS TEST MY  
CODE**



**BUT WHEN I DO I DO IT IN  
PRODUCTION**

## Ctrl+Click and Shift+Click do not open new tabs/windows in search



30



1

When I perform a search, I often want to open several results in new tabs using Ctrl+Click. Until recently, I don't remember having any problem doing this.

Today, I cannot open search results in new tabs using modifier keys. For example, when Ctrl+Click-ing on any link in <http://stackoverflow.com/search?q=foobar>, the operation is treated as a normal click. I can still use "Open in new tab" in the context menu, but that's quite a bit slower.

I can reproduce this behavior in Firefox and Chrome for Windows.

This behavior does not appear on a few other SE sites I tested.

bug

status-completed

search

mod | share | edit | close | delete | flag

edited 21 hours ago



Haney ♦

8,413 ● 4 ● 14 ● 32

asked yesterday



apsillers

30.4k ● 10 ● 20





13



The problem seems to be here:

```
$(".js-search-results").on("click", "div.result-link a", function (ev) {  
    ev.preventDefault();  
    window.location.href = $(this).data("searchsession");  
    return false;  
});
```

this finds the clicks on search results, prevents the default handler, and changes the current webpage.

[mod](#) | [share](#) | [edit](#) | [delete](#) | [flag](#)

answered yesterday



Yakk

37.9k ● 1 ● 6 ● 16



## Ctrl+Click and Shift+Click do not open new tabs/windows in search

▲ 30 ▼

☆ 1

When I perform a search, I often want to open several results in new tabs using Ctrl+Click. Until recently, I don't remember having any problem doing this.

Today, I cannot open search results in new tabs using modifier keys. For example, when Ctrl+Click-ing on any link in <http://stackoverflow.com/search?q=foobar>, the operation is treated as a normal click. I can still use "Open in new tab" in the context menu, but that's quite a bit slower.

I can reproduce this behavior in Firefox and Chrome for Windows.

This behavior does not appear on a few other SE sites I tested.

bug status-completed search

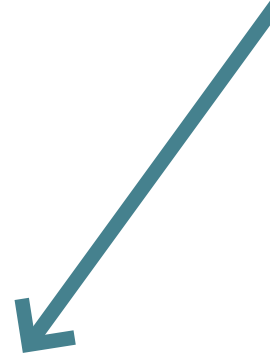
mod | share | edit | close | delete | flag

edited 21 hours ago

Haney ♦ 8,413 ♦ 4 = 14 ♦ 32

asked yesterday

apsillers 30.4k ♦ 10 ♦ 20



▲ 13 ▼

The problem seems to be here:

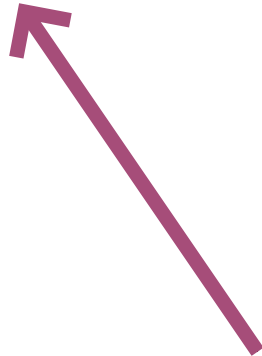
```
$(".js-search-results").on("click", "div.result-link a", function (ev) {
    ev.preventDefault();
    window.location.href = $(this).data("searchsession");
    return false;
});
```

this finds the clicks on search results, prevents the default handler, and changes the current webpage.

mod | share | edit | delete | flag

answered yesterday

Yakk 37.9k ♦ 1 = 6 ♦ 16





Got a tip? [Let us know.](#)

[News](#) ▾ [Video](#) ▾ [Events](#) ▾ [Crunchbase](#)

Follow Us



Message Us

[Search](#)



**Aol.com**

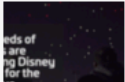


Breaking news alerts  
trending videos, and more

AdChoices

**BLACK FRIDAY** Disrupt London General Attendee Tickets Half Off Today Only [Get Your Tickets Now](#) ▶

#### Popular Posts



300 drones take to the skies above Disney World for the holidays  
*6 days ago*



Google's redesigned Google Sites goes live  
*2 days ago*



Facebook

## Stack Overflow Goes Down, Programmers Around The World Panic (It's Back Up Now)

Posted Feb 16, 2014 by [Colleen Taylor](#) (@loyalelectron), Contributor



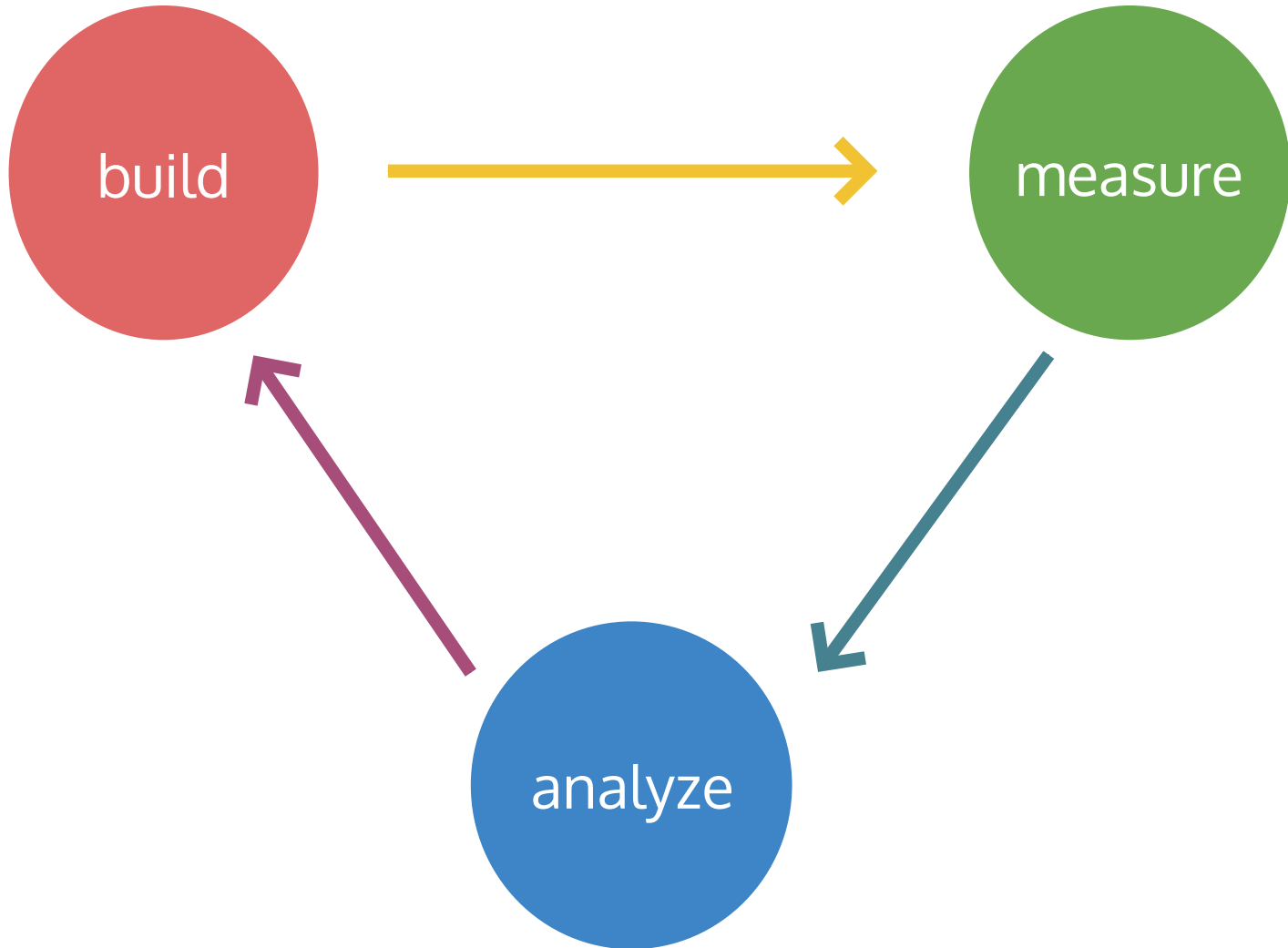
Next Story

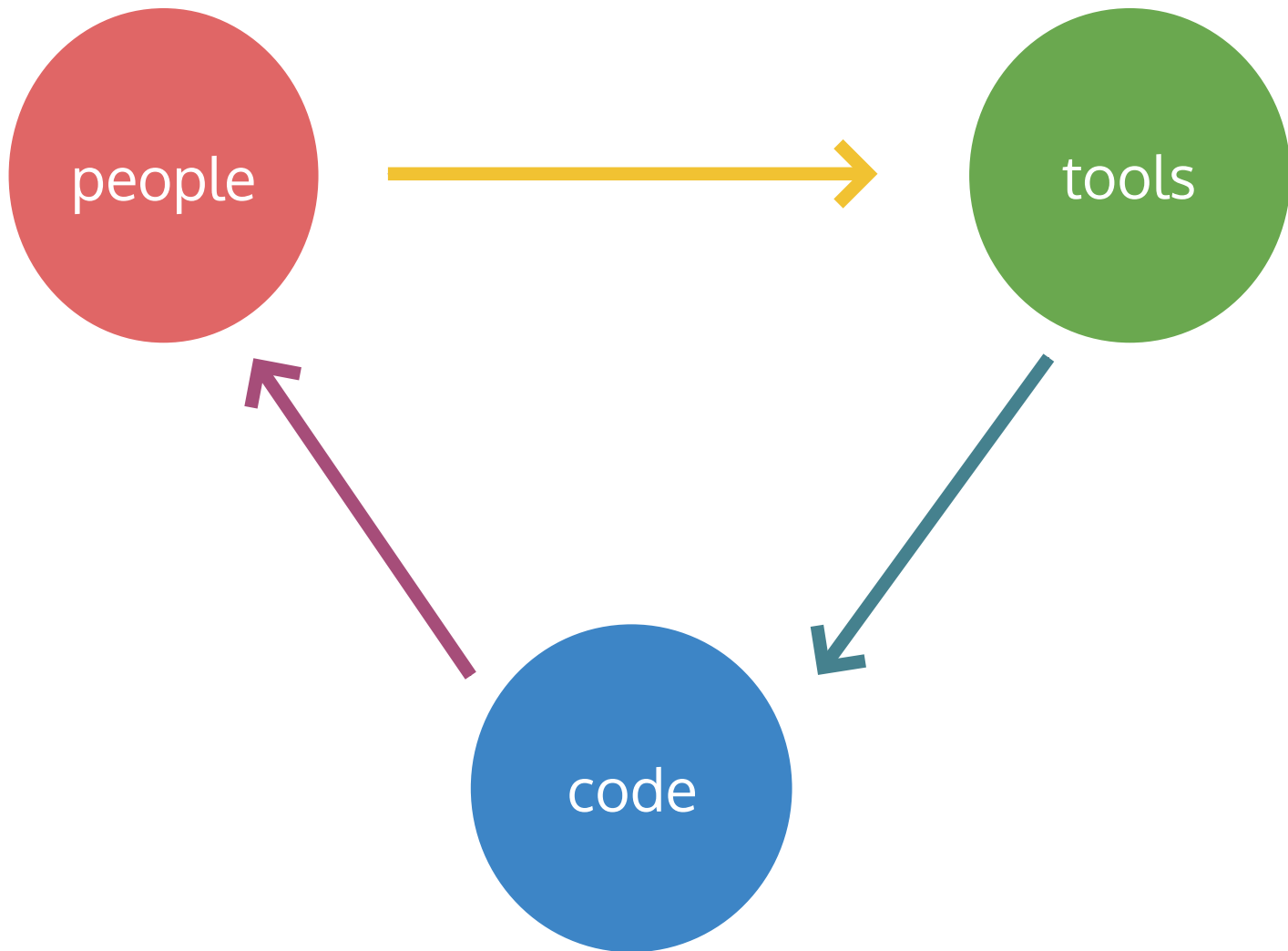
[Stack Overflow](#), the coding-focused Q&A site that's proven to be an essential tool for professional and amateur programmers alike, had an approximately hour-long outage Sunday morning that affected a number of users.

According to Stack Overflow's parent company Stack Exchange, the cause was a [DDoS attack](#) against its [network provider](#). The issue has been "partially mitigated" and the site is back up.

**amazon** echo









ANGELINA-PLACE.COM/PICTURE - JOLIE'S PHOTO GALLERY \* ANGELINA-PLACE.COM/PICTURE - JOLIE'S PHOTO GALLERY \* ANGELINA-PLACE.COM/PICTURE - JOLIE'S PHOTO GALLERY \* ANGELINA-PLACE.COM/PICTURE - JOLIE'S PHOTO GALLERY





**HIRE HACKERS**

**LET THEM CODE**

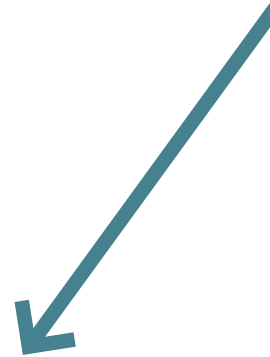
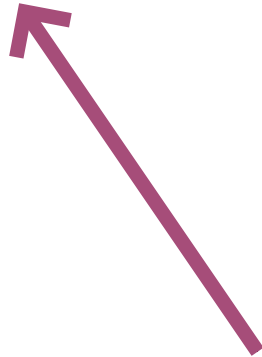
# BOSS MODE TOOLS







# BOSS MODE CODE



```
Disassembler
.method public hidebySig newslot virtual instance void InsertRange(int32 index)
{
    .maxstack 6
    .locals init (
        [0] int32 num,
        [1] object[] objarray)
    L_0000: ldarg.2
    L_0001: brtrue.s L_0018
    L_0003: ldstr "C"
    L_0008: ldstr "ArgumentNull_Collection"
    L_000d: call string System.Environment::GetResourceString(string)
    L_0012: newobj instance void System.ArgumentNullException::.ctor(string, S
    L_0017: throw
    L_0018: ldarg.1
    L_0019: ldc.i4.0
    L_001a: blt.s L_0025
    L_001c: ldarg.1
    L_001d: ldarg.0
    L_001e: ldfld int32 System.Collections.ArrayList::_size
    L_0023: ble.s L_001a
    L_0025: ldstr "Index"
    L_002a: ldstr "ArgumentOutOfRangeException_Index"
    L_002f: call string System.Environment::GetResourceString(string)
    L_0034: newobj instance void System.ArgumentOutOfRangeException::.ctor(str
    L_0039: throw
    L_003a: ldarg.2
    L_003b: callvirt instance int32 System.Collections.ICollection::get_Count(
    L_0040: stloc.0
    L_0041: ldloc.0
    L_0042: ldc.i4.0
    L_0043: ble.s L_0001
    L_0045: ldarg.0
    L_0046: ldarg.0
    L_0047: ldfld int32 System.Collections.ArrayList::_size
    L_004c: ldloc.0
    L_004d: add
    L_004e: call instance void System.Collections.ArrayList::EnsureCapacity(In
    L_0052: ldarg.1
```

# Conclusion

- Performance is a feature, not a luxury
- Performance is optimized in cycles
- The results are very specific to your case...
- ...but also extremely high-value
- Garbage collection is a pain
- Hire hackers...
- *[insert plug about Stack Overflow Jobs]*
- ...and buy them those 3 monitors already!



- Not a Robot





```
perl -wlne  
'BEGIN{$b=rand$=}$a=qw/Tolzkh_kypam_yr_qryaimtcpdjmu_bmr_amk_enq_ghqhmfcCnvm/[( $_<=>int$b)+1];  
$a=~y/a-zA-Z/b-zA-B-ZA/;  
print $a'
```