
goto;
chicago
Exploring
Stackoverflow data
Evelina Gabašová
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EXPLORING STACKOVERFLOW

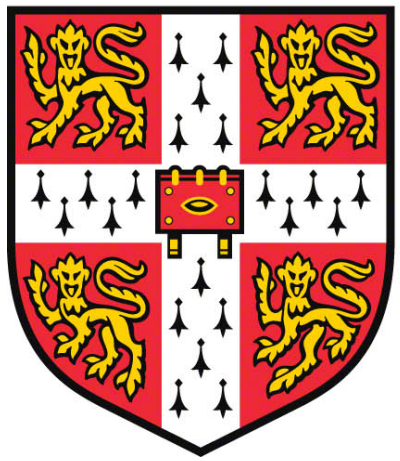
EVELINA GABASOVA
@EVELGAB


stackoverflow

The Alan Turing Institute

Evelina Gabašová

Data scientist



UNIVERSITY OF CAMBRIDGE


B 021


HUTCHISON/MRC RESEARCH CENTRE
MRC Cancer Cell Unit
University of Cambridge Department of Oncology



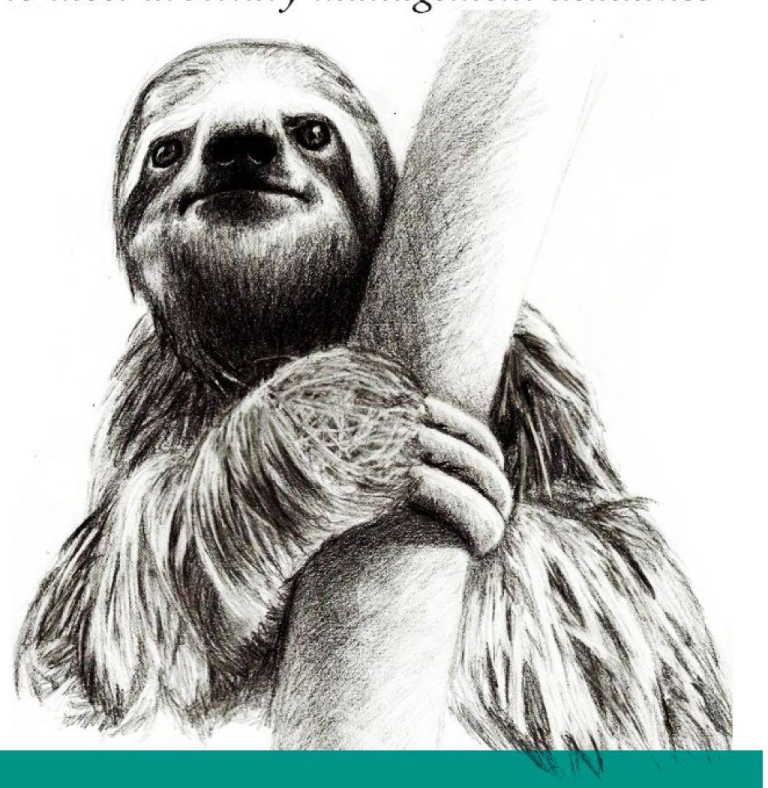
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22:4706:59745   99      1       3000022 55      108M    =       3000627 743     AATTTGAGGAGAGTTGGAA
@??@?????@???@??@??@??@???@@>??@>??@?@@@???????=?????@????=;??@@??=?>?????????????=>8??8)8.36
CHKIIKIIIIHKKJKGHHGHBHJHHJIJGJJIIJGHGJGGJKJJHGHBGIEJJJGJJIJJIJJDJKHBBBBBBBBBBBBCBCCCCCCCCCCIKJIIK
CJIJJIHIHJHIJJJJHIIDHHGJJIIJIJIIJJJFKLIEEEEEEEEEEEEEEEEEEEEEEEEIJKIIJ       NM:i:2  MQ:i:55 AS:i:10
03:19106:14195  163     1       3000022 60      102M    =       3000343 470     AATTTGAGGAGAGTTGGAA
>>??>>???@??@??@???@@???@???@?@>@?????????????@@????@@??@A??????????????@@@@@@@@3  MC:Z:149M
CCI     MD:Z:1C99T0     PG:Z:MarkDuplicates.6   RG:Z:81G-S142   BI:Z:IIJIFJKJJJJIJKIIIIIIHIIIJIIHII
:79
21:7740:66830   99      1       3000030 60      94M7S   =       3000428 548     GAGAGTTGGAATTAGGTCT
?@??@??@???@@???@???@?@@@???9???????@@????@@??@@??????@?????????????????/*/=.*6   MC:Z:150M
CK      MD:Z:94 PG:Z:MarkDuplicates.7   RG:Z:81G-S142   BI:Z:IIJIKLJIJJJJHIIIJIIHIIHDHIIHIJIIJIJJIH

24:10774:57073  163     1       3000040 51      83M     =       3000179 288     ATTAGGTCTTCTTTGAAGG
??????????@@????@@??@@?????????????????@????=<      XA:Z:7,-62865008,83M,1;X,+165866740,83M,2;16,+3
JJIJJDJKHBCCCCCCCCCCCCCCCCCCC       MD:Z:83 PG:Z:MarkDuplicates.7   RG:Z:81G-S142   BI:Z:IIIJKK
AS:i:83 XS:i:78
```

```
11:22211:12859  145     1       3000067 40      31M3D97M        X       151280660       0       AAC
AGTCCATTAATCTGATCCTG        8/*;8=9*:?@@?;@>;.;3+5':06=@@=3@@@@@??????????????@????????=@??@?????
BD:Z:IKHHLLMLJJIDIJEKKJHKKJKIKKKFLMICCCCCCCCCCCCCCCCCCCCCIKJHIKFKHHKKKHIHJJJJJJJJJJGGJGHBHHHBHJJFFK
:IKJILLLKKKKFJLGKKKJLLJKKJKKHKLIEEEEEEEEEEEEEEEEEEEEEEJKIIJKHJIJJKJIJJLJKLJKKKKJJIJIJEJHHDJJJGHJIDHK
03:27509:52590  177     1       3000073 22      93M     5       63531575        0       GCATTAAACCC
-8<'*??????????????=????????????????@??@<???>>>?>?>?>?>@>>>>>?>>?@==<==   BD:Z:LKIIHCIJEKKJHKKJKI
kDuplicates.8   RG:Z:81G-S142   BI:Z:KJJJJEIKFJJJIKKIJJJKKHIIEEEEEEEEEEEEEEEEEEEEEEEJJHHJJGIIJIJI
08:28615:50146  81      1       3000073 4       76M     14      42794428        0       GCATTAAACCC
??????????????????????@????????@@>>=?    BD:Z:LKIIGBHIDDJGGJJIJHHHEEKLHBBBBBBBBBBBBBBBBBBBBBBBH
CHJJHIIHIGGJKHDDDDDDDDDDDDDDDDDDDDDDDDDIJHHIJGIHIIJIHIJLJKLKLLKKII      NM:i:3  AS:i:61 XS:i:56
20:26869:44767  99      1       3000086 40      39M2S   =       3000442 483     CTGGTCCTGGGCTTTTTTT
LMLFLLICCCCCCCCCCCBBBBBBBBBBCIFI  MD:Z:39 PG:Z:MarkDuplicates.7   RG:Z:81G-S142   BI:Z:IIKJLKKKKJ
18:29346:49338  145     1       3000089 59      116M    X       151280612       0       GTCCTGGTTTT
    /+2)7==++@>@@@@@@@@@@@@@??????3???????@>?@??@?????????@?@?@?@?????@???@???????????@=????>>??>
HBIKKFKKKICCIJKKIKKKKIIJHKKKKJLLMMLFMJLHH      MD:Z:7G0C28G78  PG:Z:MarkDuplicates.8   RG:Z:81G-S1
KIHIHKLJJJJKLJKFKKLII       NM:i:3  AS:i:102        XS:i:75
```


stackoverflow

Cutting corners to meet arbitrary management deadlines

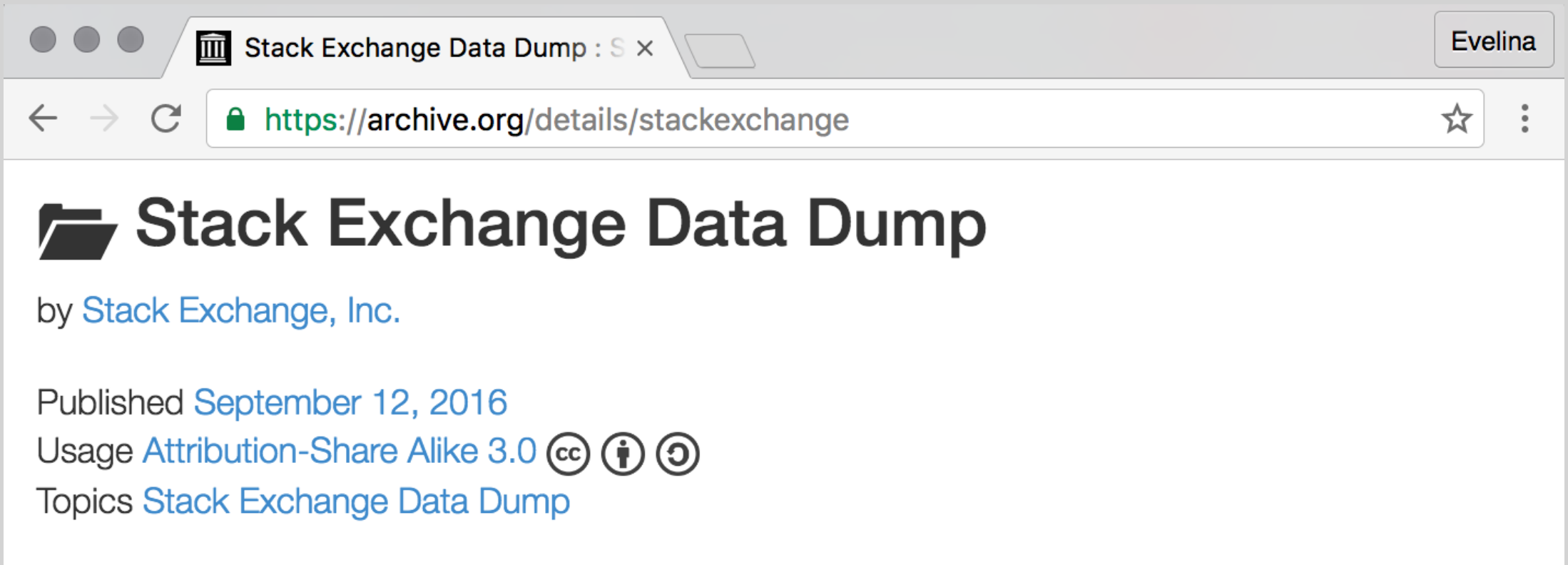


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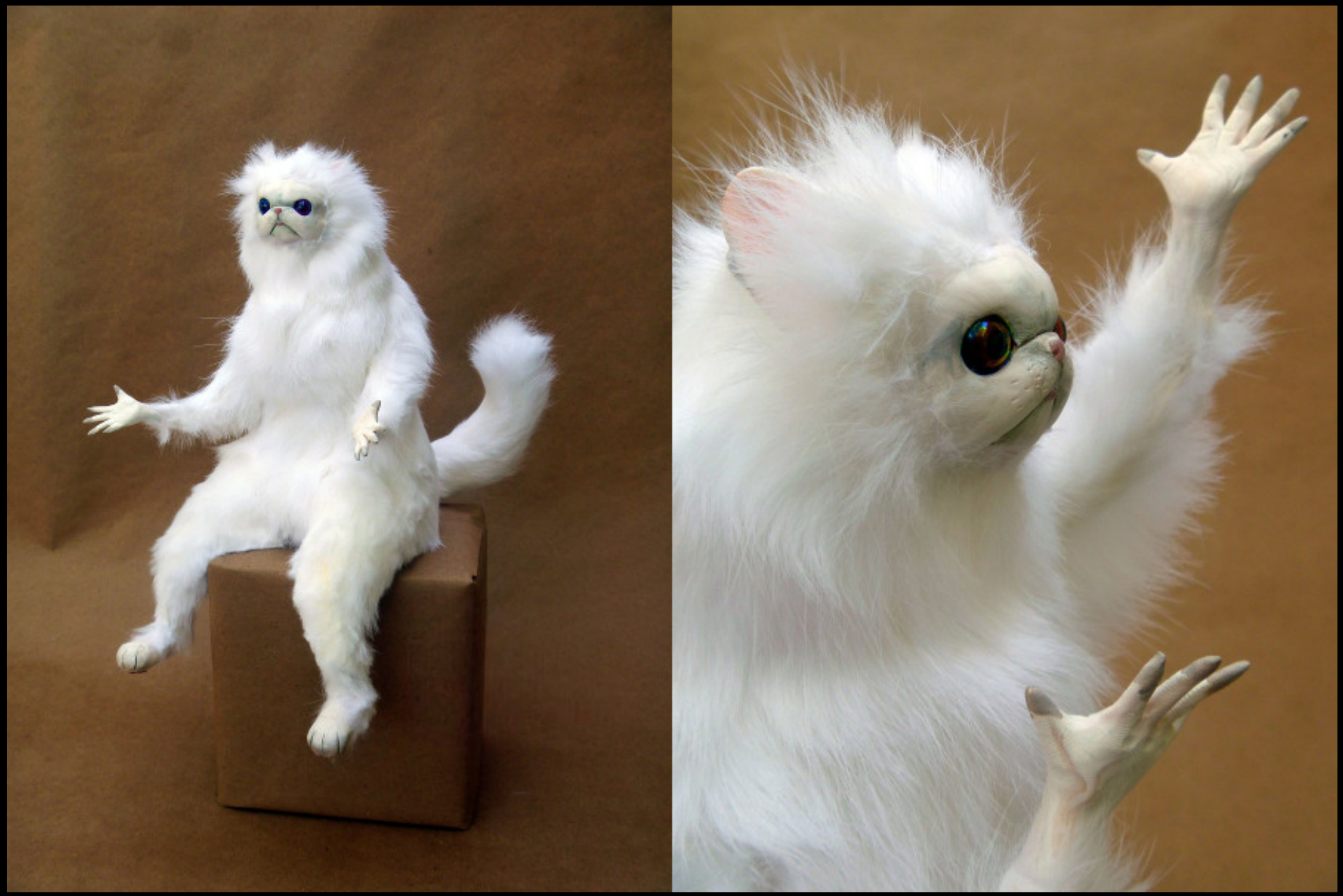
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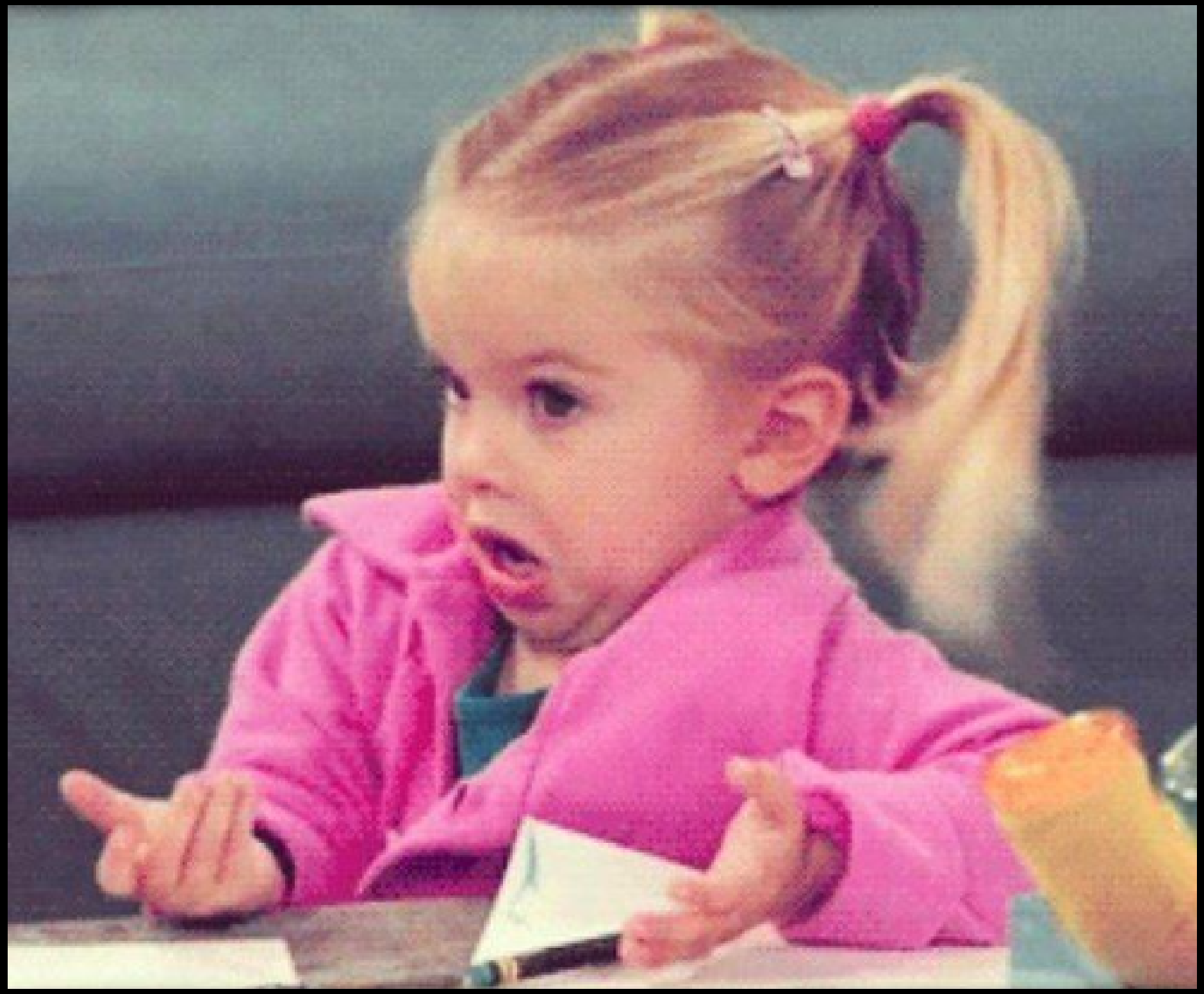
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```
manatee:StackOverflow evelina$ ll
total 330579944
-rw-r--r--   1 evelina  staff   1.9G  7 Mar  2016 Badges.xml
-rw-r--r--   1 evelina  staff    11G  7 Mar  2016 Comments.xml
-rw-r--r--   1 evelina  staff    67G  7 Mar  2016 PostHistory.xml
-rw-r--r--   1 evelina  staff   360M  7 Mar  2016 PostLinks.xml
-rw-r--r--   1 evelina  staff    41G  7 Mar  2016 Posts.xml
-rw-r--r--   1 evelina  staff   3.7M  7 Mar  2016 Tags.xml
-rw-r--r--   1 evelina  staff   1.4G  7 Mar  2016 Users.xml
-rw-r--r--   1 evelina  staff   9.0G  7 Mar  2016 Votes.xml
```







QUESTIONS

When setting a form's opacity should I use a decimal or double?

422

33

I want to use a track-bar to change a form's opacity.

This is my code:

```
decimal trans = trackBar1.Value / 5000;
this.Opacity = trans;
```

When I try to build it, I get this error:

> Cannot implicitly convert type 'decimal' to 'double'.

I tried making `trans` a `double`, but then the control doesn't work. This code has worked fine for me in VB.NET in the past.

c# winforms type-conversion decimal opacity

share improve this question

edited Dec 23 '15 at 21:34

community wiki
22 revs, 20 users 21%
Eggs McLaren

3 Also, Decimal can't represent as wide a value as a Double. Decimal can only go up to +/-7.9228162514264337593543950335E+28; whereas a Double can go up to +/-1.79769313486232E+308 – TraumaPony Sep 21 '08 at 4:09

18 So... this is the first question on Stack Overflow. NICE! – Phiter Fernandes Apr 20 at 18:35

5 @PhiterFernandes Actually, this is the second question. The first question was, "Where, oh where, did the Joel Data go?", but you need >=10k rep to see it. More information is available here. – DavidB Apr 23 at 23:12

add a comment

asked 8 years ago

viewed 28449 times

active 1 month ago

Looking for a job?

Software Developer joining Abcam on a journey of multi-year investment
Abcam Plc *Cambridge, UK*
c# asp.net

.Net Web Developer
Monarch Airlines *Luton, UK*
c# asp.net

C# .NET Web Developer (make key decisions, be in charge of your work)
Intrinsiq *Cambridge, UK*
£23,000 - £27,000
c# asp.net

Client Engineer/Jr JavaScript Engineer
Qubit *London, UK*
javascript jquery

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c# asp.net

.Net Web Developer
Monarch Airlines *Luton, UK*
c# asp.net

C# .NET Web Developer (make key decisions, be in charge of your work)
Intrinsiq *Cambridge, UK*
£23,000 - £27,000
c# asp.net

Client Engineer/Jr JavaScript Engineer
Qubit *London, UK*
javascript jquery

TAGS

- What are the most common tags?

Tags - Stack Overflow

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Questions Jobs Documentation Beta Tags Users Badges Ask Question

Tags

popular name new

A tag is a keyword or label that categorizes your question with other, similar questions. Using the right tags makes it easier for others to find and answer your question.

Type to find tags:

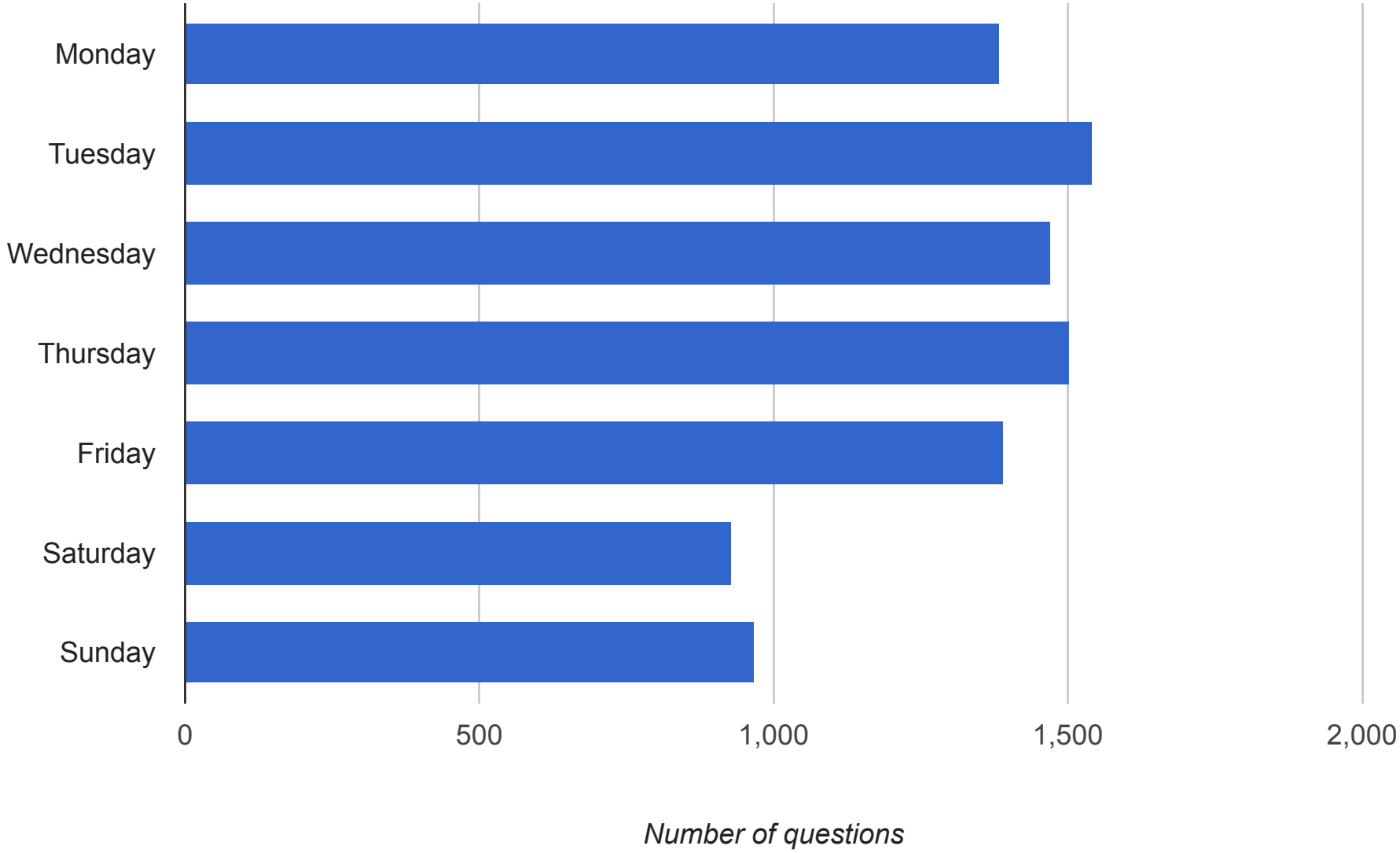
javascript × 1213875	java × 1134459	c# × 1001495	php × 974314
JavaScript (not to be confused with Java or Jscript) is a dynamic, weakly-typed language used for client-side as well as server-side	Java (not to be confused with JavaScript) is a general-purpose object-oriented programming language designed to be used in conjunction	a multi-paradigm, managed, type safe, object-oriented programming language. Questions should include code examples sufficient to	an open source general-purpose programming language that is especially suited for web development.
992 asked today, 5847 this week	762 asked today, 4594 this week	546 asked today, 3270 this week	668 asked today, 3827 this week

TAGS

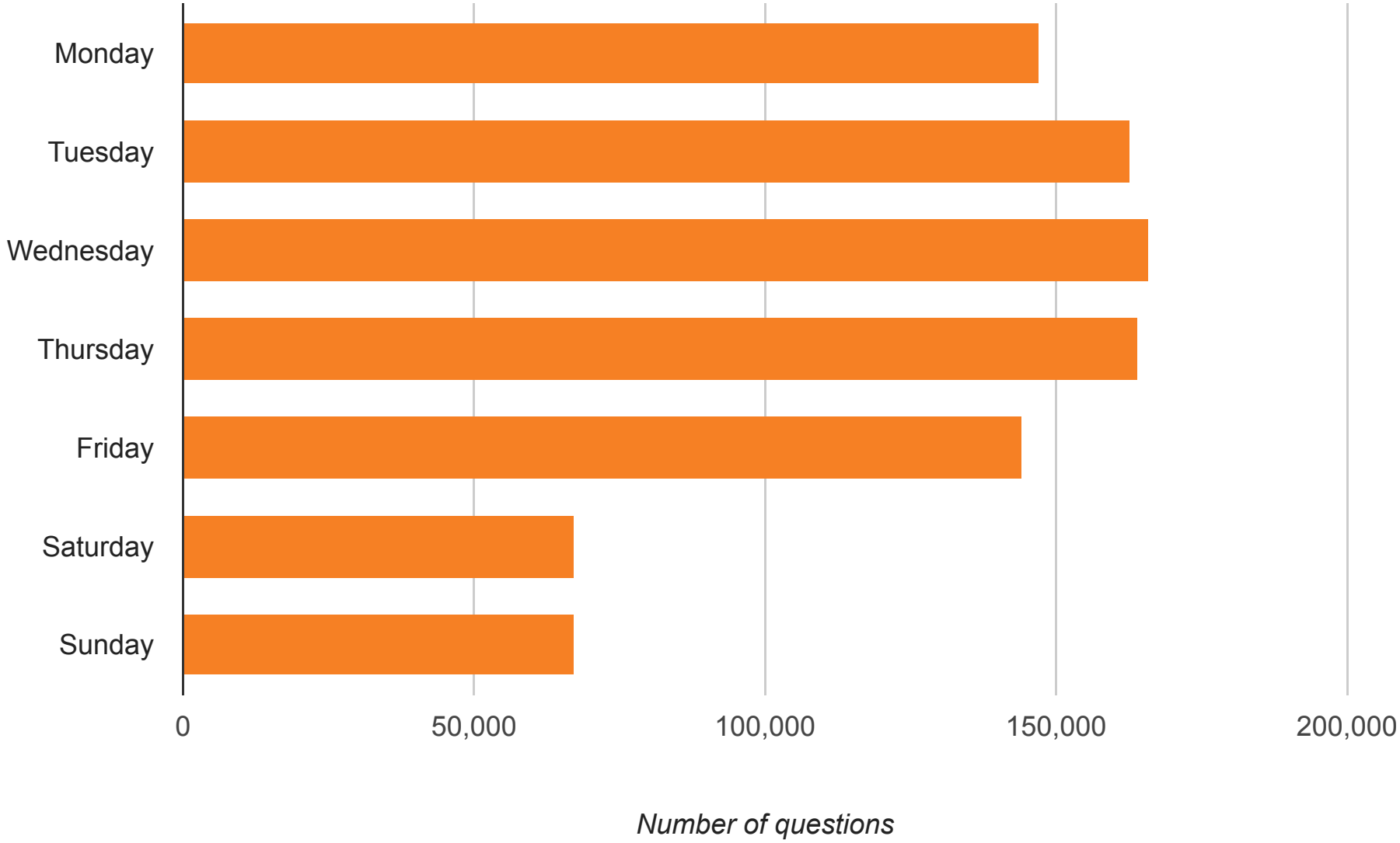
- What are the most common tags?
- When do people ask questions?

QUESTION: WHEN?

Tag: f#


Monday
Tuesday
Wednesday
Thursday
Friday
Saturday
Sunday
0
500
1,000
1,500
2,000
Number of questions

Tag: c#


Monday
Tuesday
Wednesday
Thursday
Friday
Saturday
Sunday
0
50,000
100,000
150,000
200,000
Number of questions

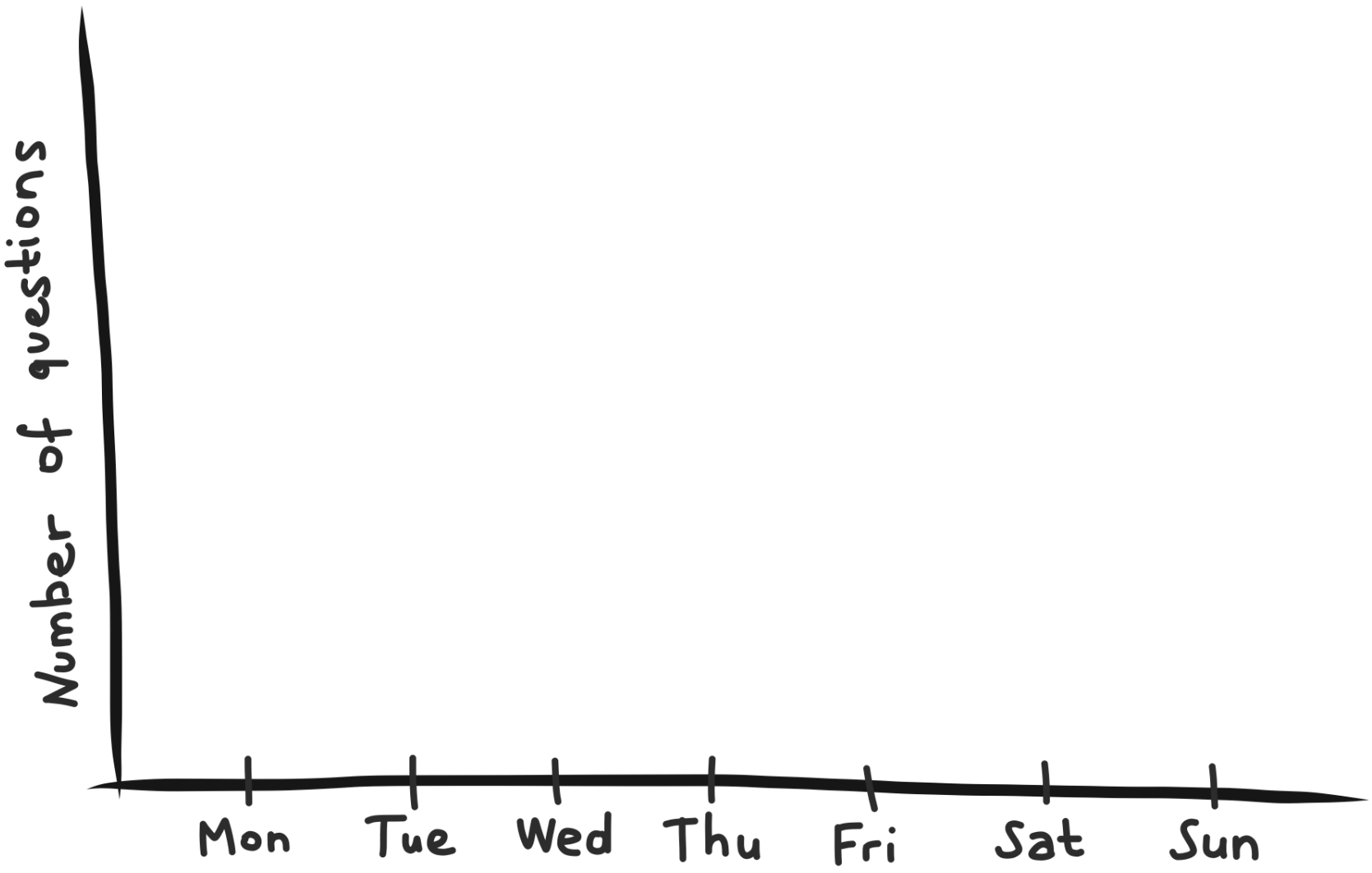


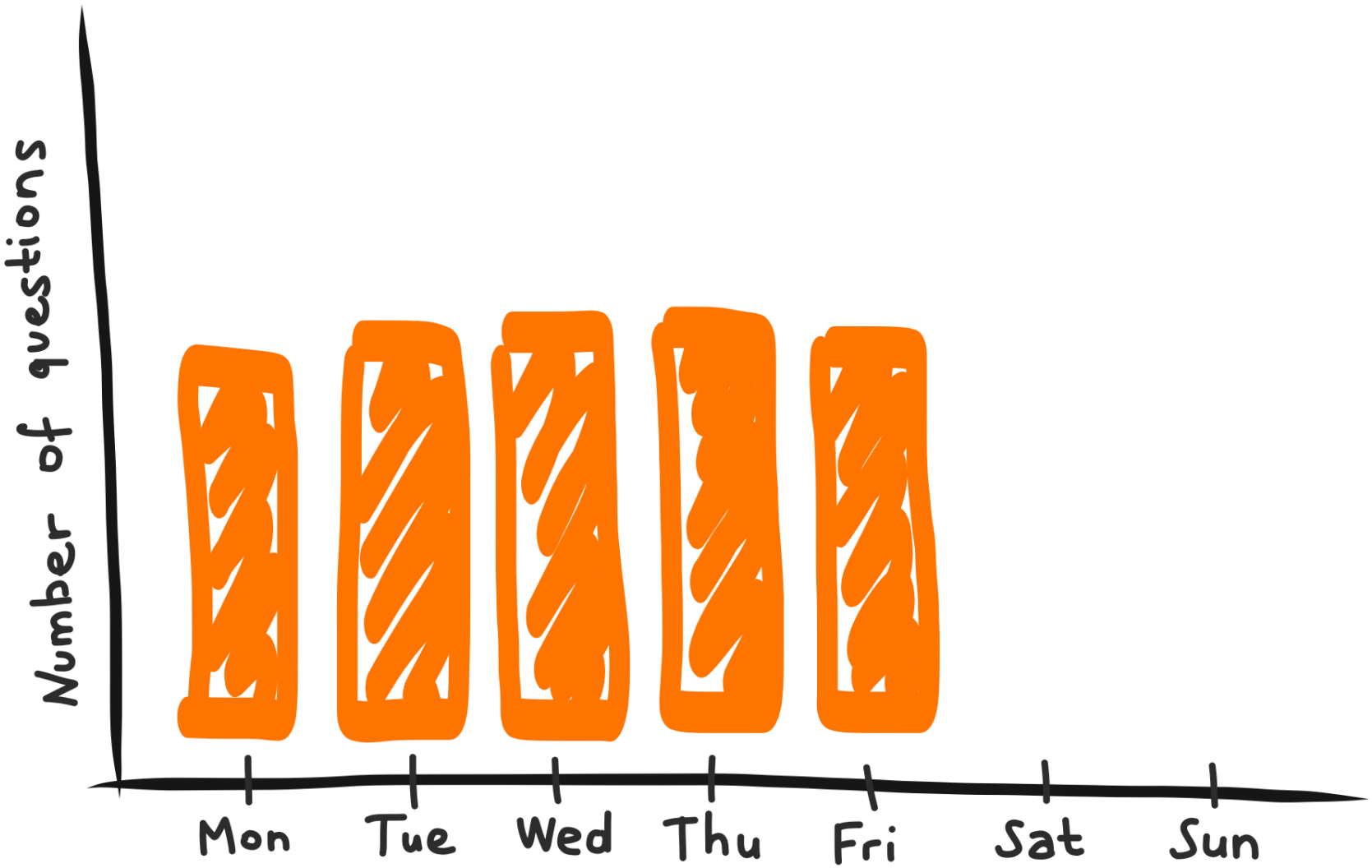


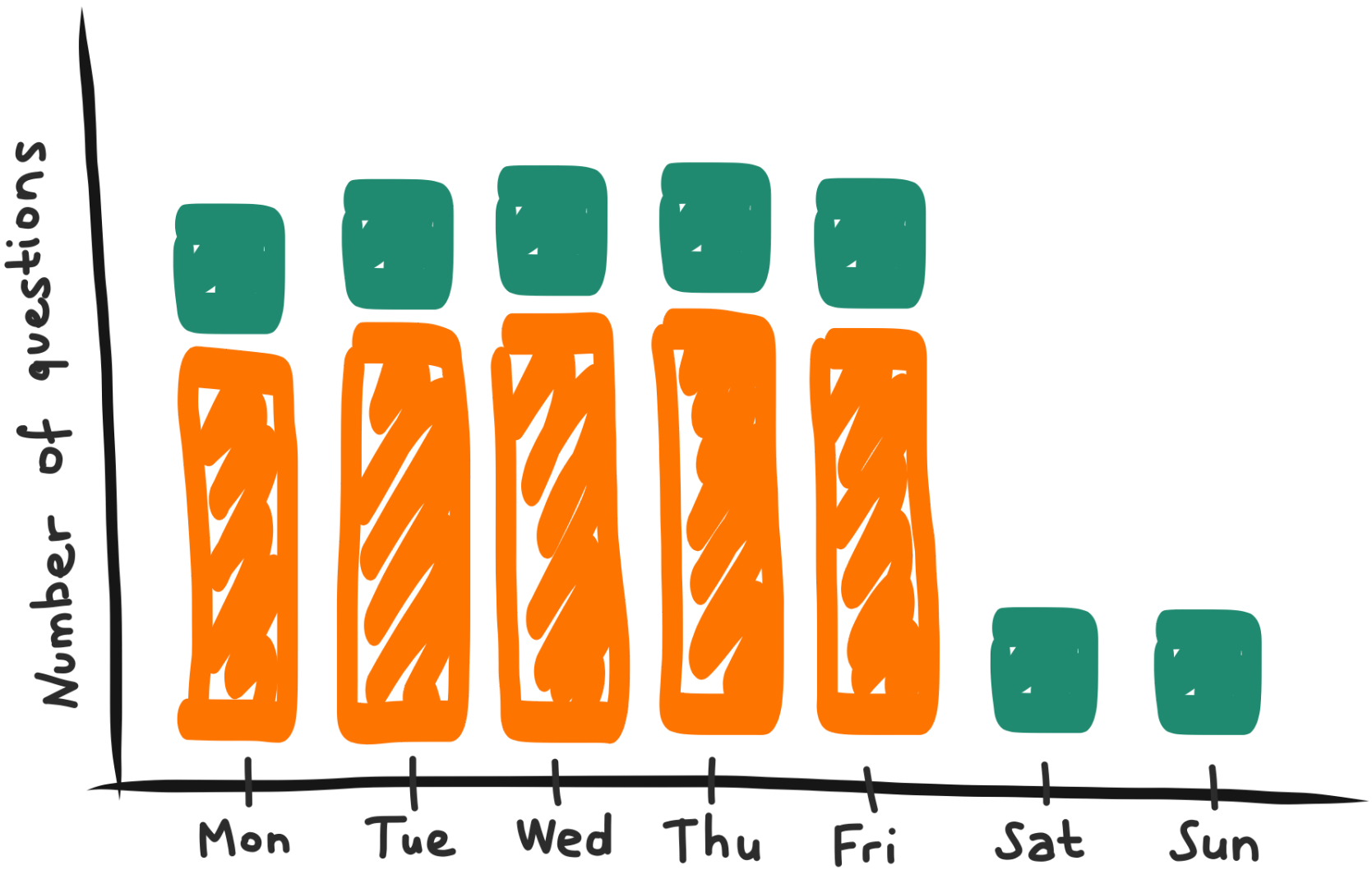
Krzysztof Cieślak @k_cieslak · Sep 3

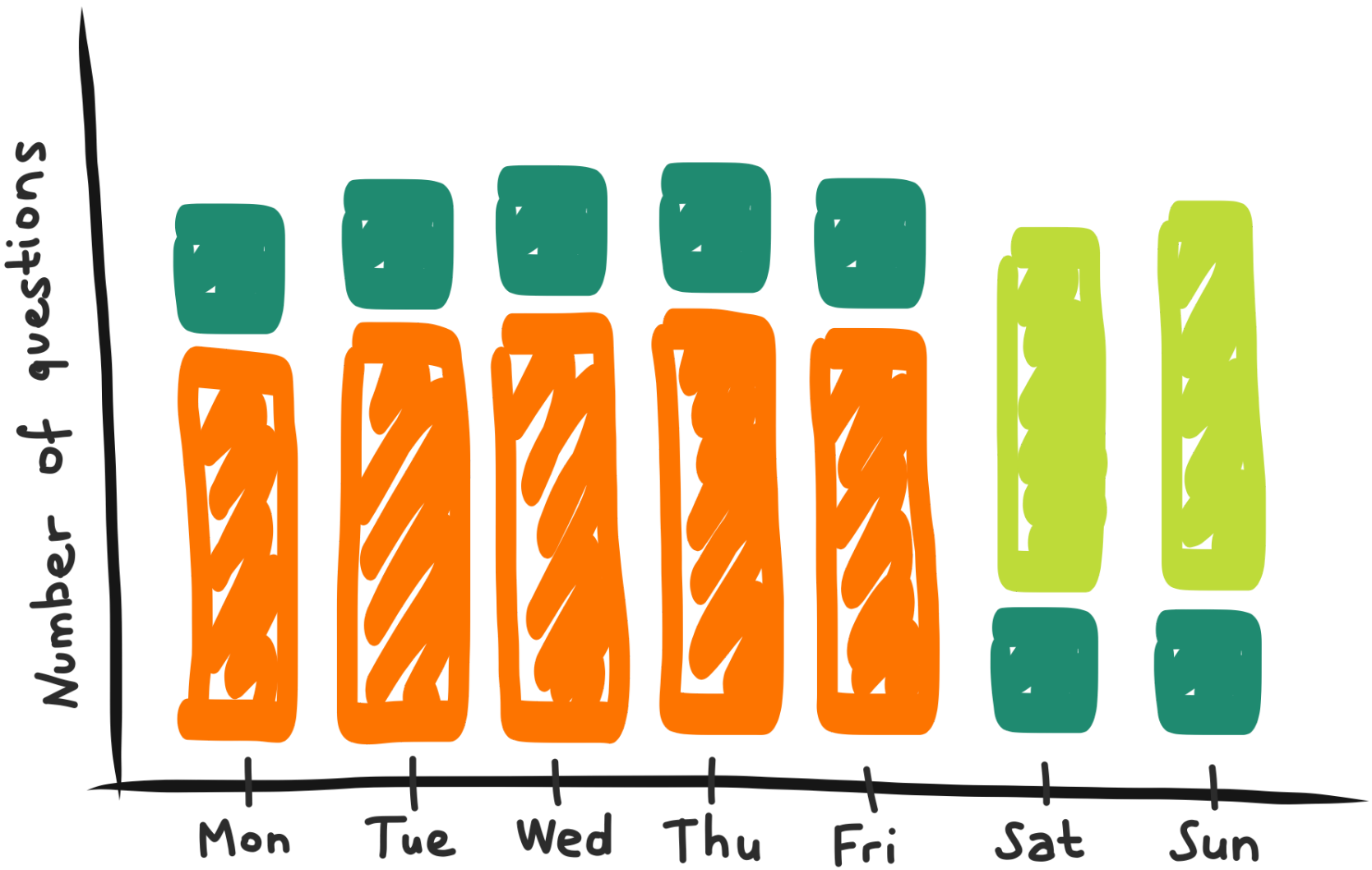
So people often asks me how I find time for all my #fsharp #opensource stuff... here's an answer

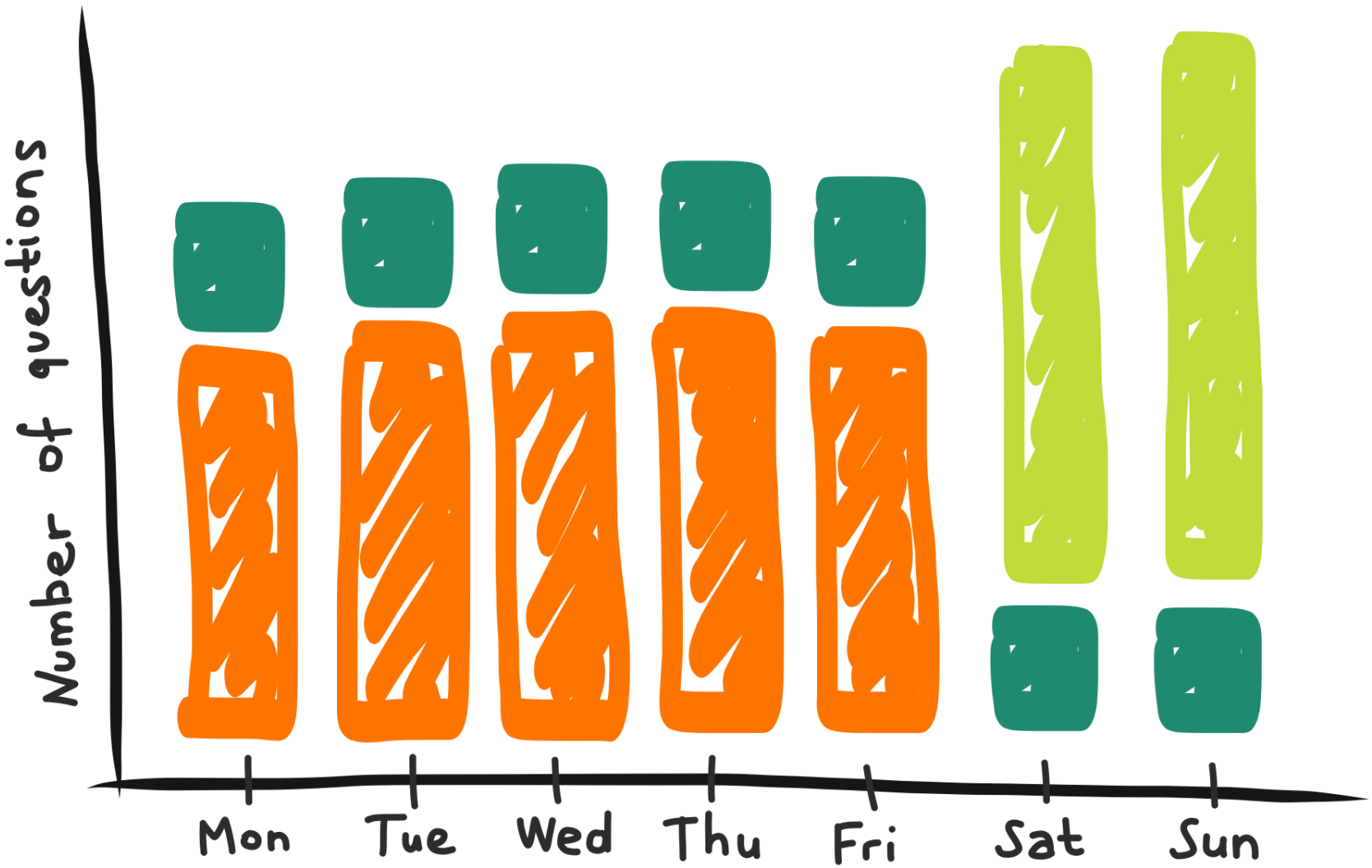
4 26

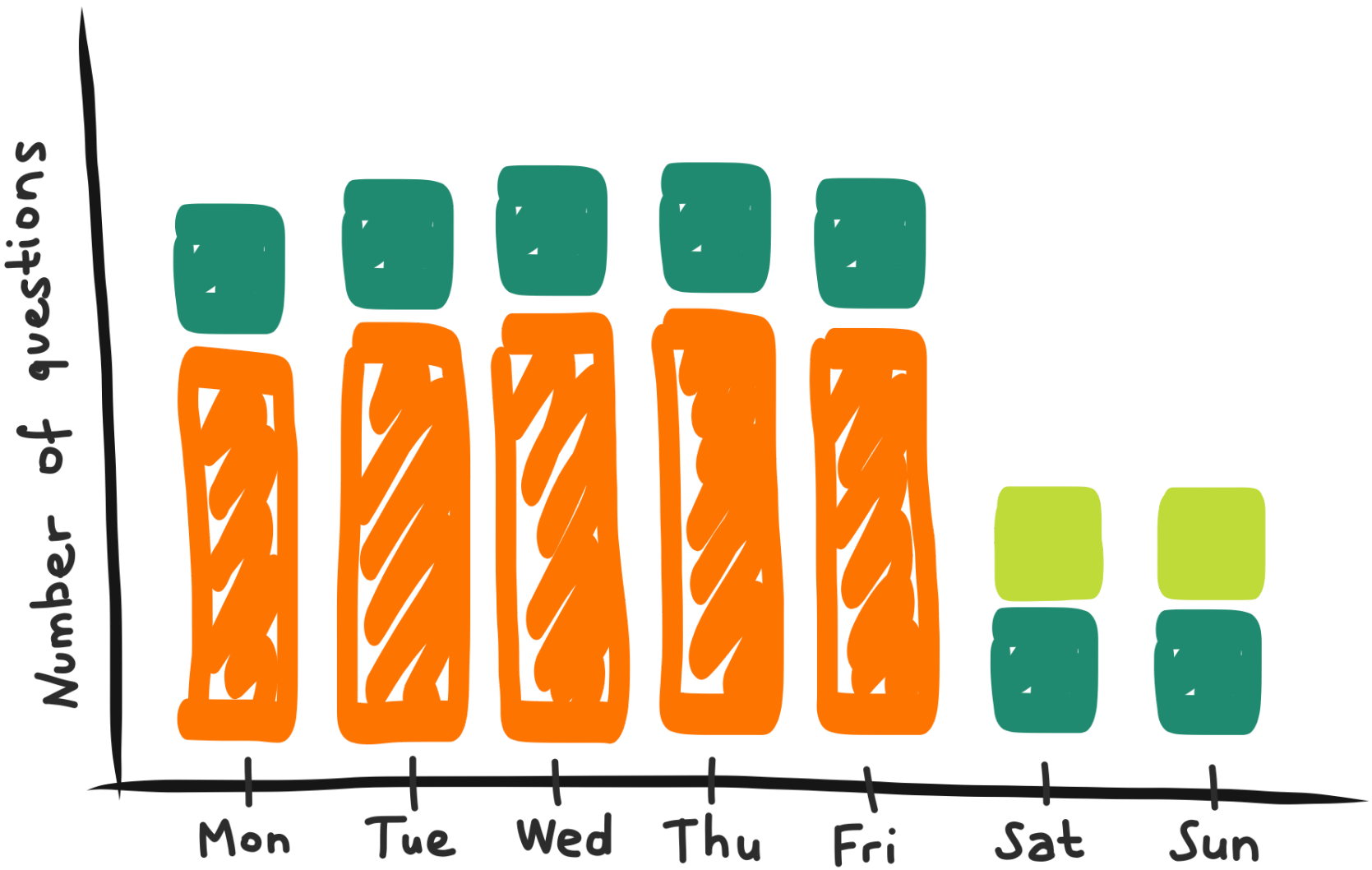

Number of questions
Mon
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Wed
Thu
Fri
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Sun

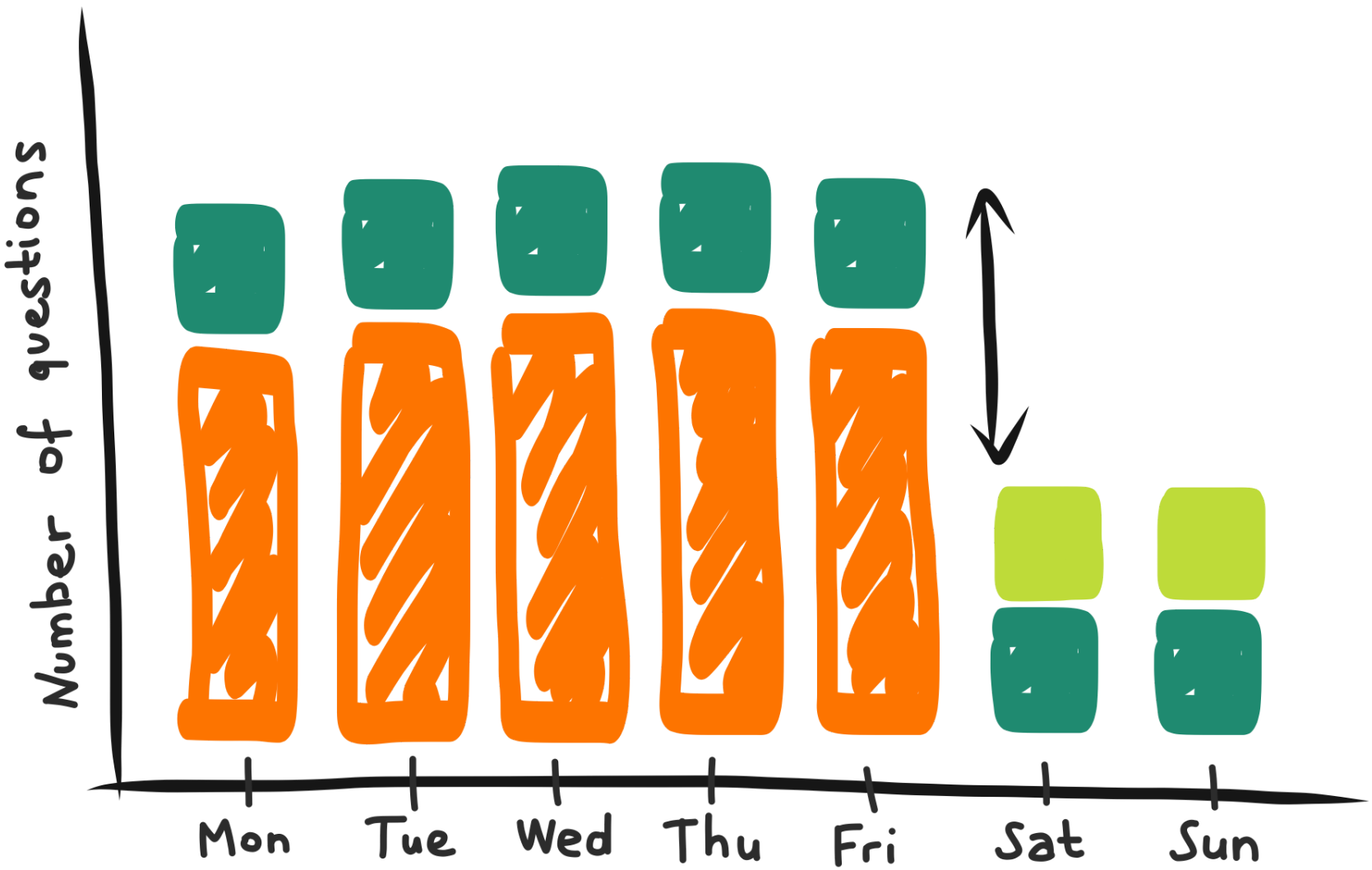

Number of questions
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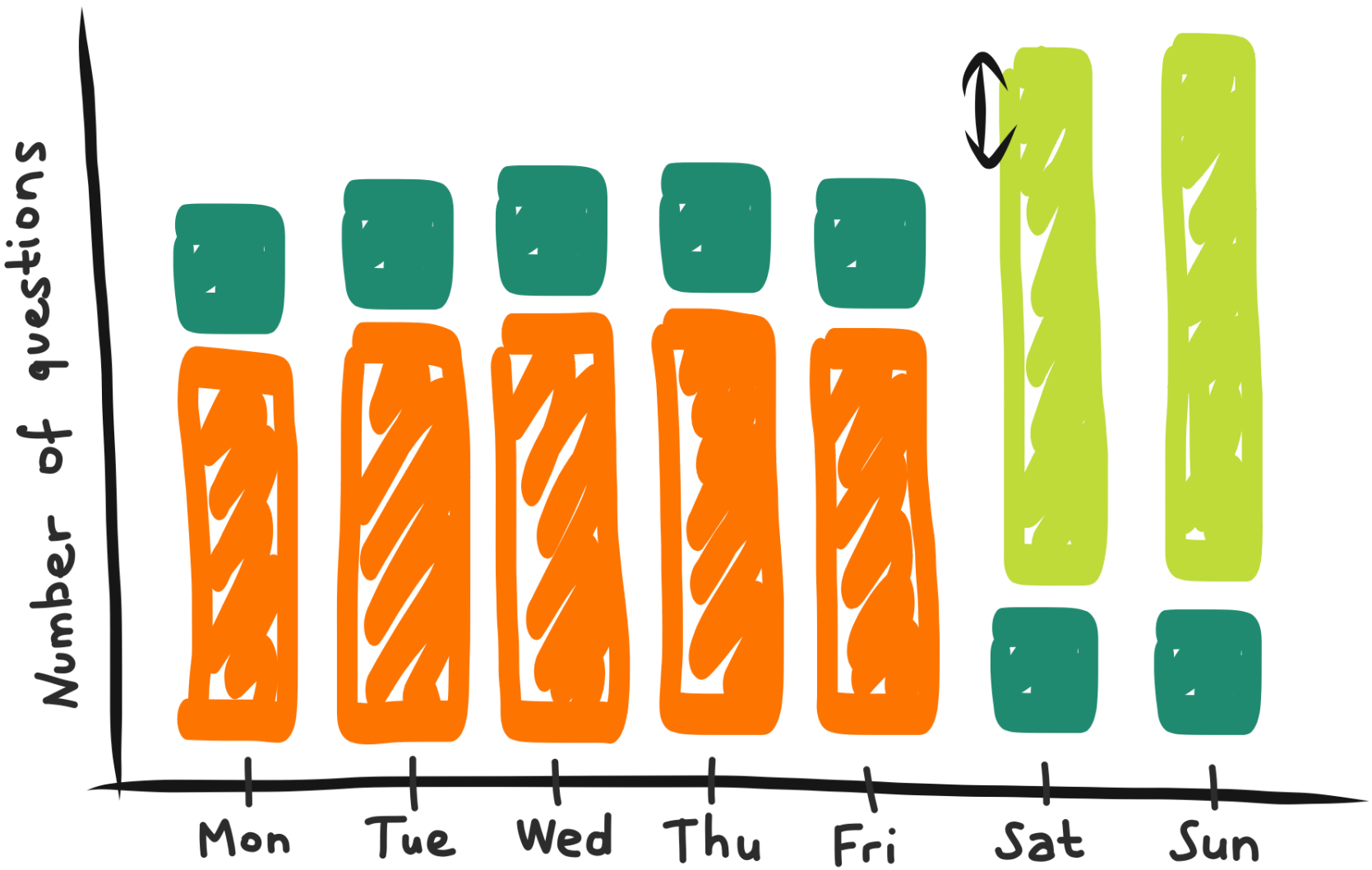

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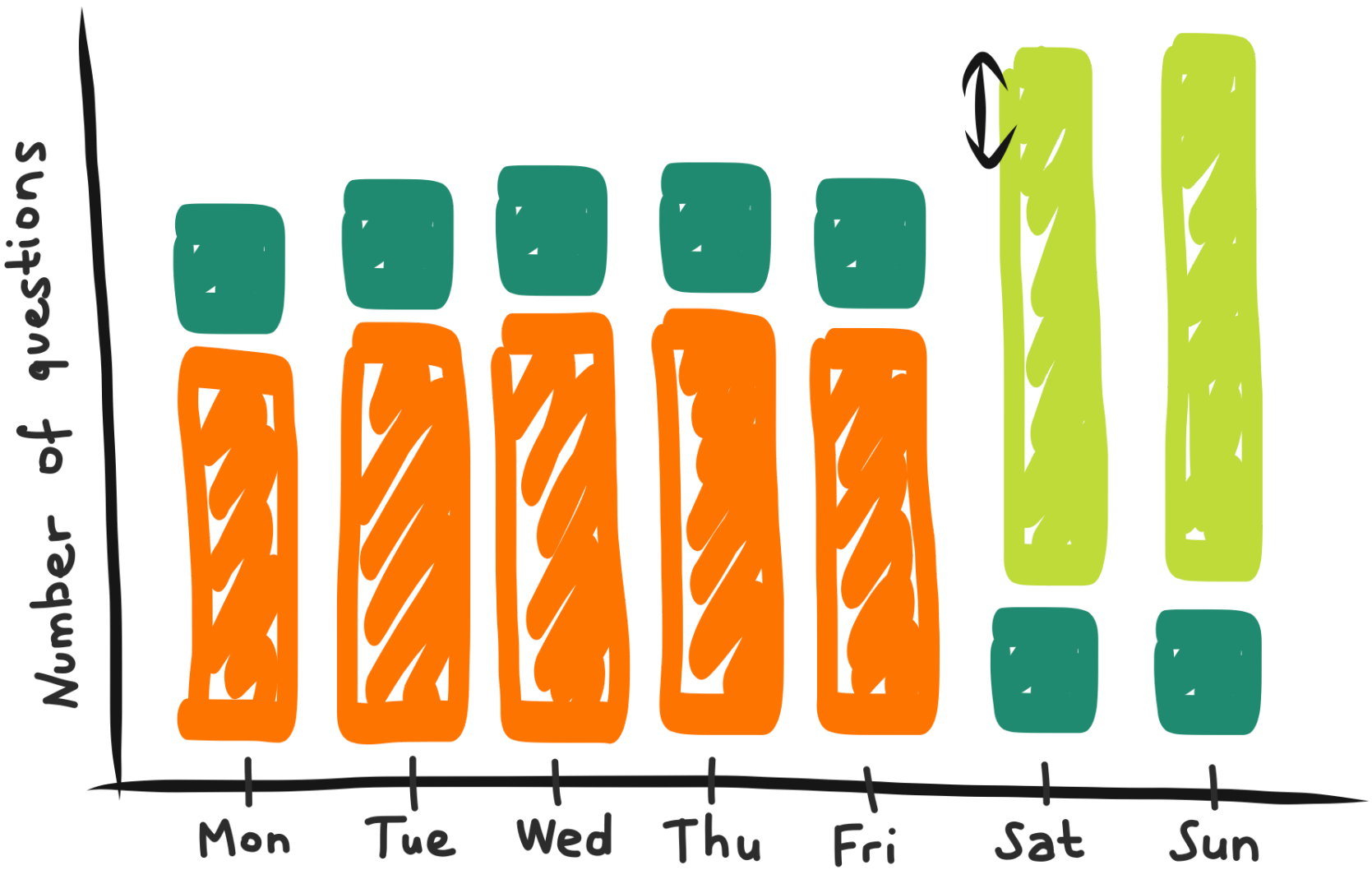

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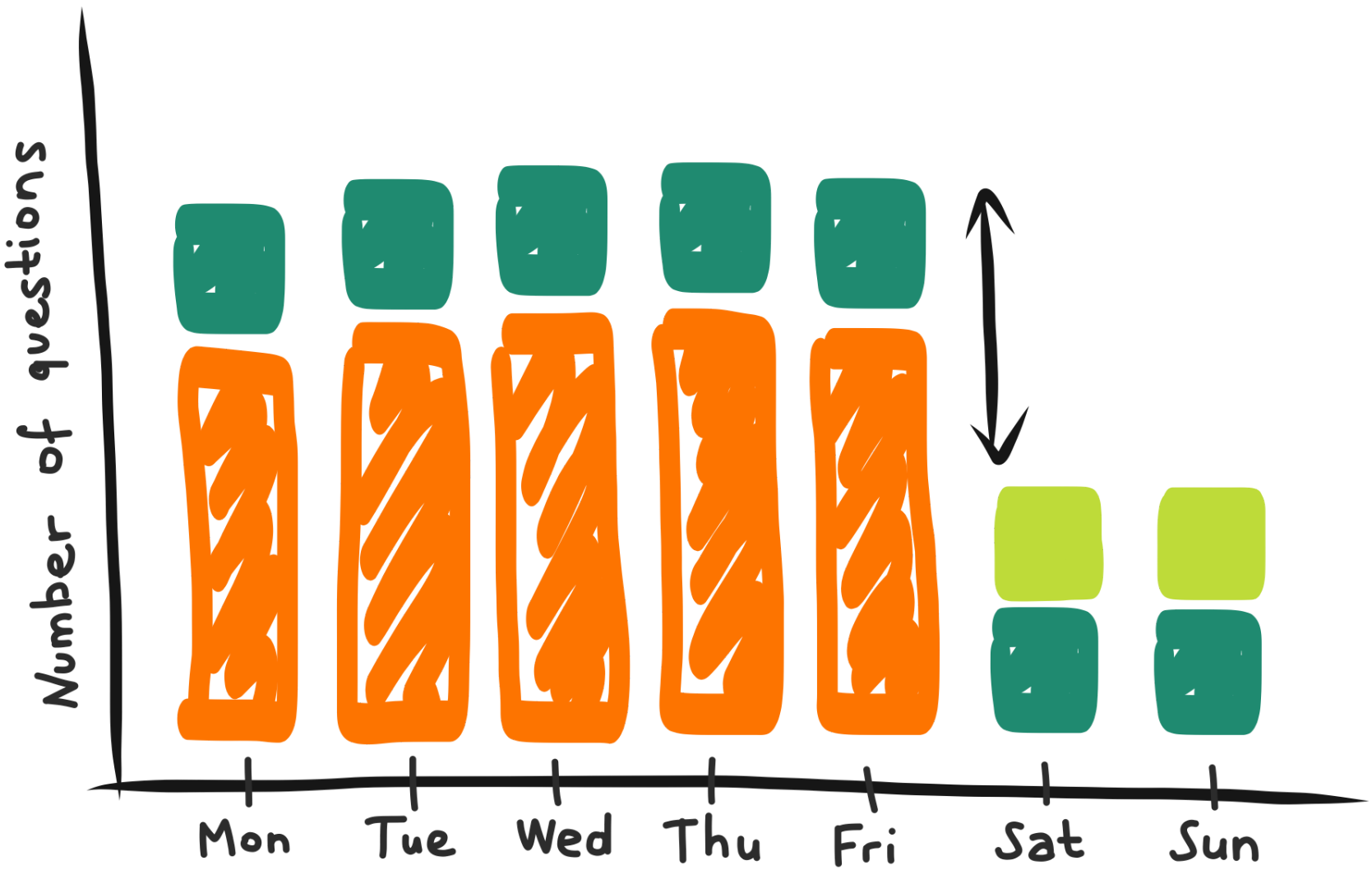

Number of questions
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Number of questions
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Number of questions
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WEEKEND INDEX

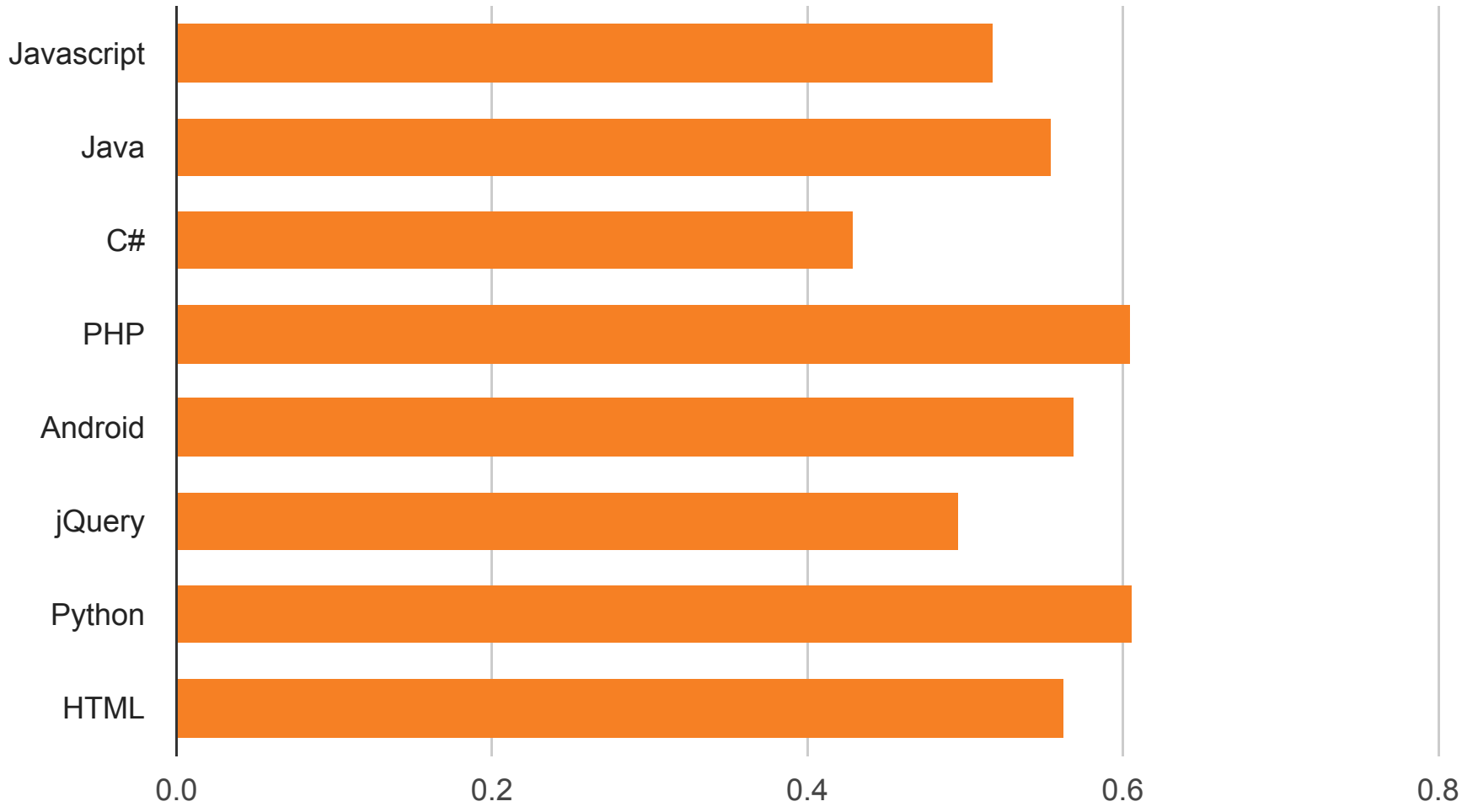
MOST WEEKEND

1. Minecraft : 1.19
2. LWJGL : 1.12
3. SFML (Simple and Fast Multimedia Library) : 1.06
4. D : 1.04
5. pygame : 1.03

MOST WEEKDAY

1. SQL Server Reporting Services 2008, r2 : 0.11
2. Infragistics : 0.13
3. SQL Server Reporting Services 2008 : 0.13
4. Axapta : 0.13
5. DocusignAPI : 0.14

Most common tags



Continuous integration

Jenkins vs Travis-CI. Which one would you use for a Open Source project? [closed]

77

28

For my project I need to choose between Jenkins and Travis-CI. I´ve been using Jenkins for years but I ´ve also read good reviews about Travis-CI.

Which one would you use for an Open Source project? What are the main benefits or advantages of both?

jenkins continuous-integration travis-ci

share improve this question

edited Sep 27 at 8:58

asked Sep 6 '15 at 9:58



Juan Luis

514 ●2 ●6 ●10

asked 1 year ago

viewed 32105 times

active 5 days ago

Linked

0 Is Travis CI integrated with JIRA?

Related

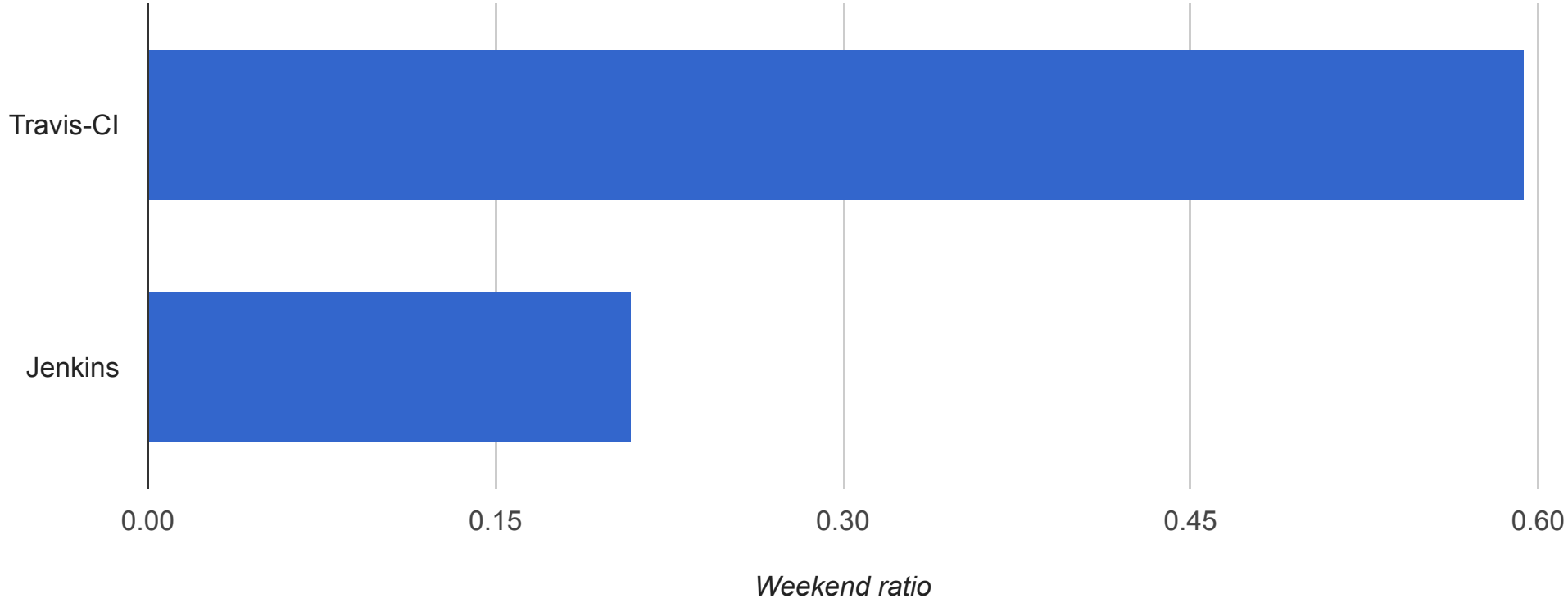
1 CIS for a Javascript project

5 Which continuous integration server is able to queue jobs?

2 Which is the best practice of using Jenkins?

2 Can Travis be installed locally like Jenkins?

Continuous integration





JUPYTER NOTEBOOKS

notebooks.azure.com/evelina

PostTypeId="2" ParentId="34" CreationDate="2008-08-01T13:08:59.127" Score="10" Body="<p
og/archives/2006/06/as3_resource_ma.html">http://www.gskinner.com/blog/archives/200
he feeling I'm getting is that, because the garbage collector might not run when you want i
kick-starting-the-garbage-collector-in-actionscript-3-with-air/">http://www.craftym
#xD;
<p>So I'd recommend trying out their collection code and see if it helps<
):void{
    gcCount = 0;
    addEventListener(Event.ENTER_FRAME, doGC);&l
++gcCount > 1){
        removeEventListener(Event.ENTER_FRAME, doGC);<br
  flash.system.System.gc();
}
</code></pre>" OwnerUserId="23
PostTypeId="2" ParentId="34" CreationDate="2008-08-01T13:08:59.487" Score="15" Body="<p
tion. Which means that unreferenced memory will be freed up whenever the runtime feels like
e approach used by most modern garbage co languages (like C# and Java as well).</
t;/code> or the items within the ar the memory will be freed at some point a
force a garbage collection, though you really dn't. If you do, do it only for testing
rce a GC, try (yes, twice):</p>
&#x pre><code>flash.system.System.g
ftymind.com/2008/04/09/kick-starting-the-ga e-collector-in-actionscript-3-with-air/&quo

="1668244" LastEditDate="2014-07-10T21:03:46.007" LastActivityDate="2014-07-10T21:03:46.90
PostTypeId="2" ParentId="48" CreationDate=" -08-01T13:10:16.473" Score="40" Body="<p
uot;submit" name="submitButton" value="Previous Page" />&#x
t;/code></pre>

<p>When the user presses enter and the <em>Re
-side code which contains a collection of form <code>name/value</code> pairs. F
gt;If Request.Form("submitButton") = "Previous Page" Then
    ' Cod
for Next Page
End If
</code></pre>

<p>Reference: <a
n</p>
" OwnerUserId="39" LastEditorUserId="2354564" LastEditDate="2014-
PostTypeId="2" ParentId="48" CreationDate="2008-08-01T13:14:30.303" Score="40" Body="<p
<pre><code><input type="button" name="prev" value=&
he default, plus you could also add the <code>default</code> attribute to it so
submit" name="next" value="Next Page" default />
</c
LastEditDate="2015-07-06T22:50:09.980" LastActivityDate="2015-07-06T22:50:09.980" CommentC
PostTypeId="1" AcceptedAnswerId="43110" CreationDate="2008-08-01T13:14:33.797" Score="49"

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QUESTION:

WHERE?

WHERE?

- 5 277 833 users in total
- 769 541 filled in their location

$HOME

83%

(Unfortunately) Germany

7151 Mawson Station, Australian Antarctic Territory, Antarctica



PostTypeId="2" ParentId="34" CreationDate="2008-08-01T13:08:59.127" Score="10" Body="<p
og/archives/2006/06/as3_resource_ma.html">http://www.gskinner.com/blog/archives/200
he feeling I'm getting is that, because the garbage collector might not run when you want i
kick-starting-the-garbage-collector-in-actionscript-3-with-air/">http://www.craftym
#xD;
<p>So I'd recommend trying out their collection code and see if it helps<
):void{
    gcCount = 0;
    addEventListener(Event.ENTER_FRAME, doGC);&l
++gcCount > 1){
        removeEventListener(Event.ENTER_FRAME, doGC);<br
  flash.system.System.gc();
}
</code></pre>" OwnerUserId="23
PostTypeId="2" ParentId="34" CreationDate="2008-08-01T13:08:59.487" Score="15" Body="<p
tion. Which means that unreferenced memory will be freed up whenever the runtime feels like
e approach used by most modern garbage collected languages (like C# and Java as well).</
t;/code> or the items within the array itself, the memory will be freed at some point a
force a garbage collection, though you really shouldn't. If you do, do it only for testing
rce a GC, try (yes, twice):<pre><code>flash.system.System.g
ftymind.com/2008/04/09/kick-starting-the-garbage-collector-in-actionscript-3-with-air/&quo

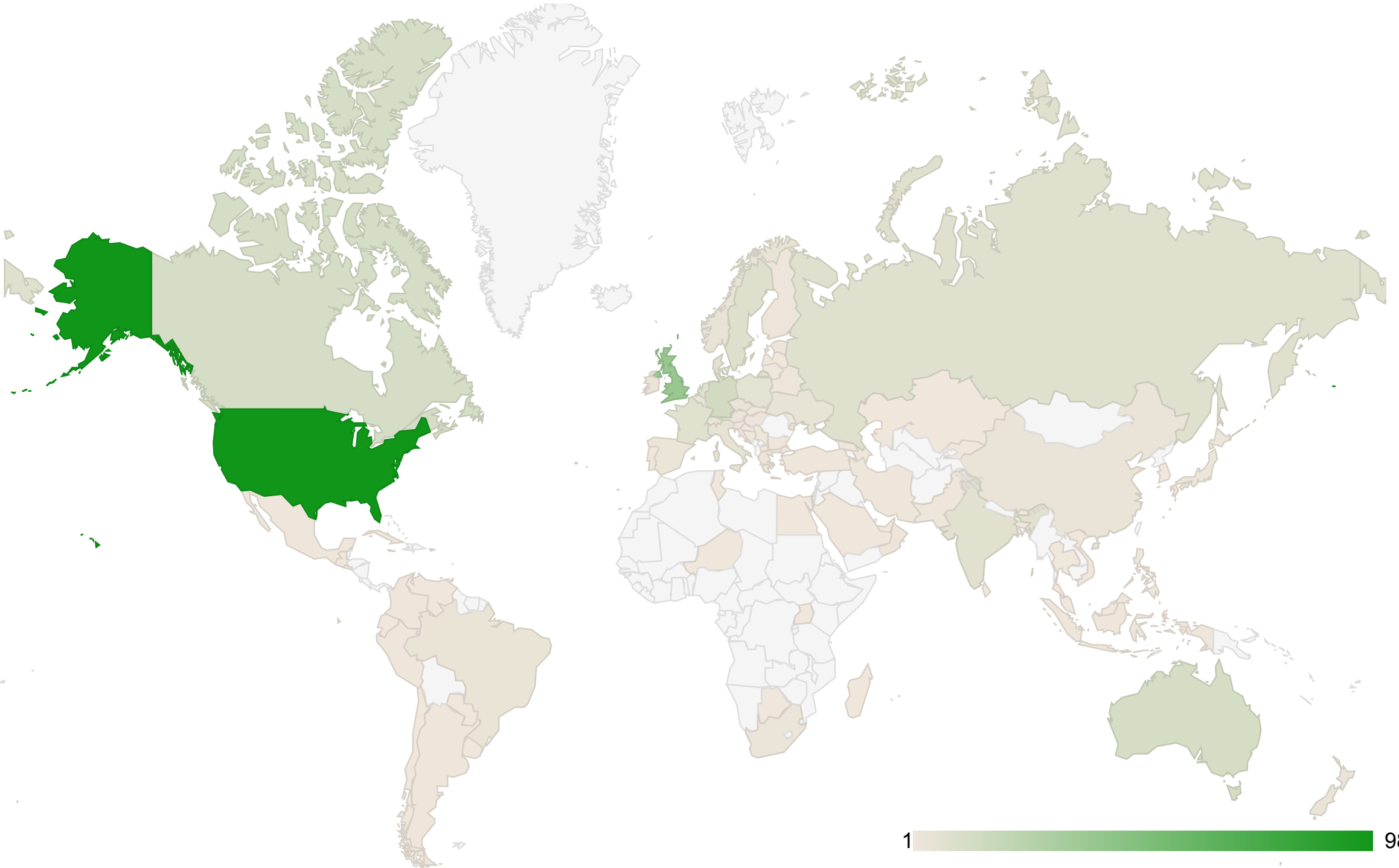
WHERE?

="1668244" LastEditDate="2014-07-10T21:03:46.907" LastActivityDate="2014-07-10T21:03:46.90
PostTypeId="2" ParentId="48" CreationDate="2008-08-01T13:10:16.473" Score="40" Body="<p
uot;submit" name="submitButton" value="Previous Page" />&#x
t;/code></pre>

<p>When the user presses enter and the <em>Re
-side code which contains a collection of form <code>name/value</code> pairs. F
gt;If Request.Form("submitButton") = "Previous Page" Then
    ' Cod
for Next Page
End If
</code></pre>

<p>Reference: <a
n</p>
" OwnerUserId="39" LastEditorUserId="2354564" LastEditDate="2014-
PostTypeId="2" ParentId="48" CreationDate="2008-08-01T13:14:30.303" Score="40" Body="<p
<pre><code><input type="button" name="prev" value=&
he default, plus you could also add the <code>default</code> attribute to it so
submit" name="next" value="Next Page" default />
</c
LastEditDate="2015-07-06T22:50:09.980" LastActivityDate="2015-07-06T22:50:09.980" CommentC
PostTypeId="1" AcceptedAnswerId="43110" CreationDate="2008-08-01T13:14:33.797" Score="49"

F#

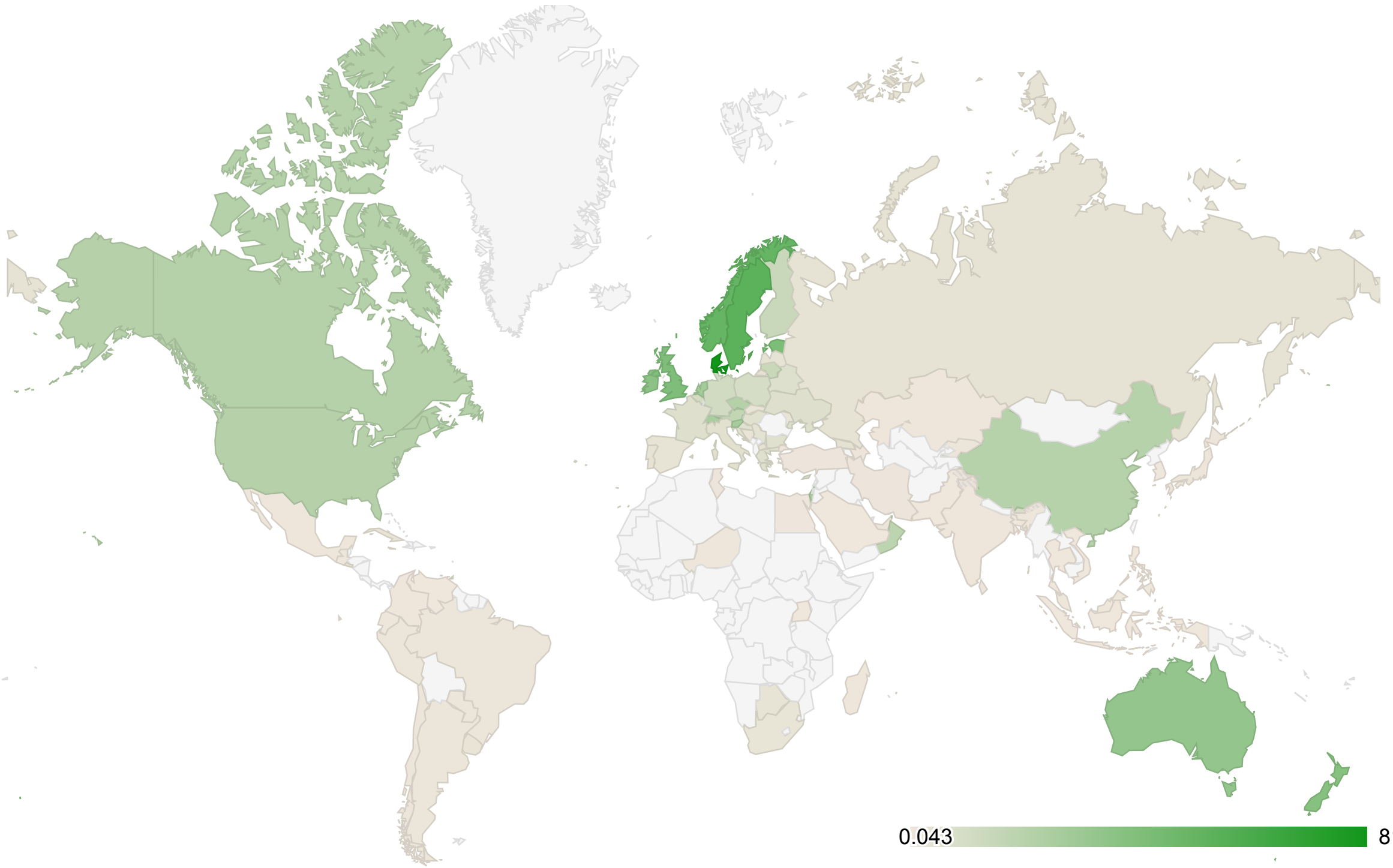


$$n \times \frac{1}{\text{population}} \times \frac{\text{registered}}{\text{located}} \times 1,000,000$$

ppm (Programmers-per-million)

WHERE REALLY?

F#





(SAMPLING BIAS)



TAGS + USERS

=

COMMUNITIES

TAGS

define

RELATIONS

	F#	C#	JS	R	Cobol
Evelina	1	0	1	1	0
Krzysztof	1	1	1	0	0

44 265 tags x 5 277 831 users

USERS WITH MORE THAN 1,000 POSTS

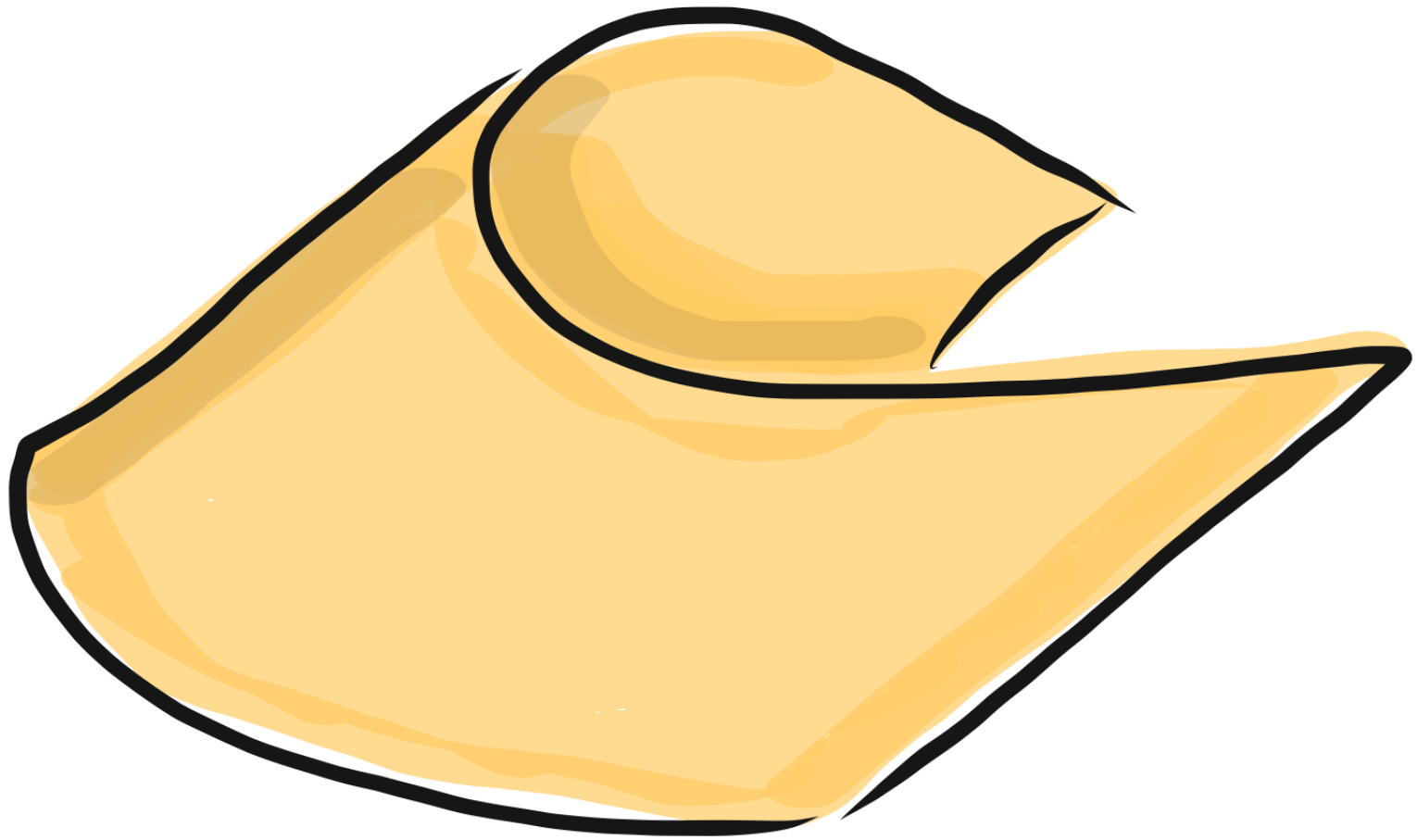
TAGS WITH MORE THAN 5,000 POSTS

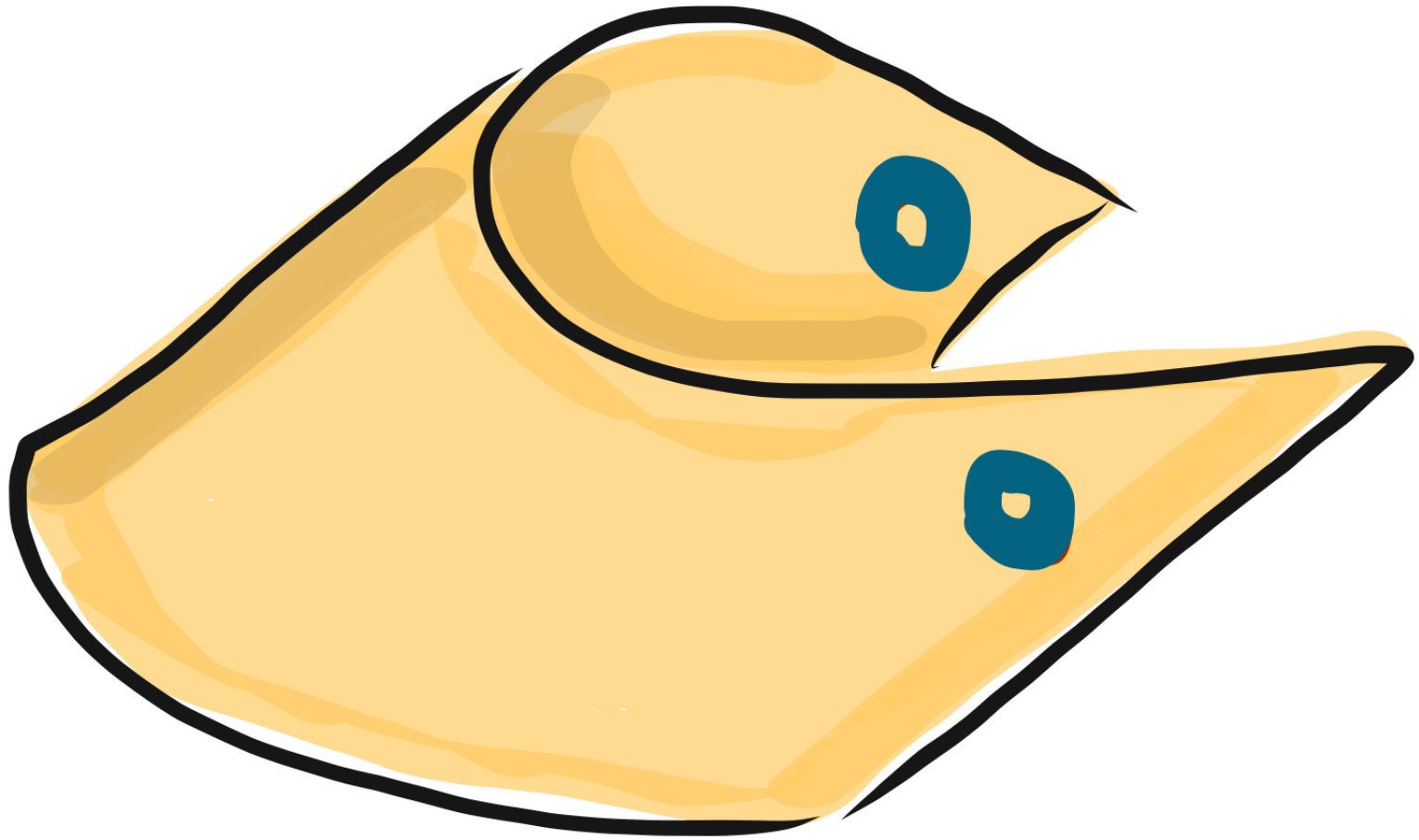
807 TAGS, 1633 POWER USERS

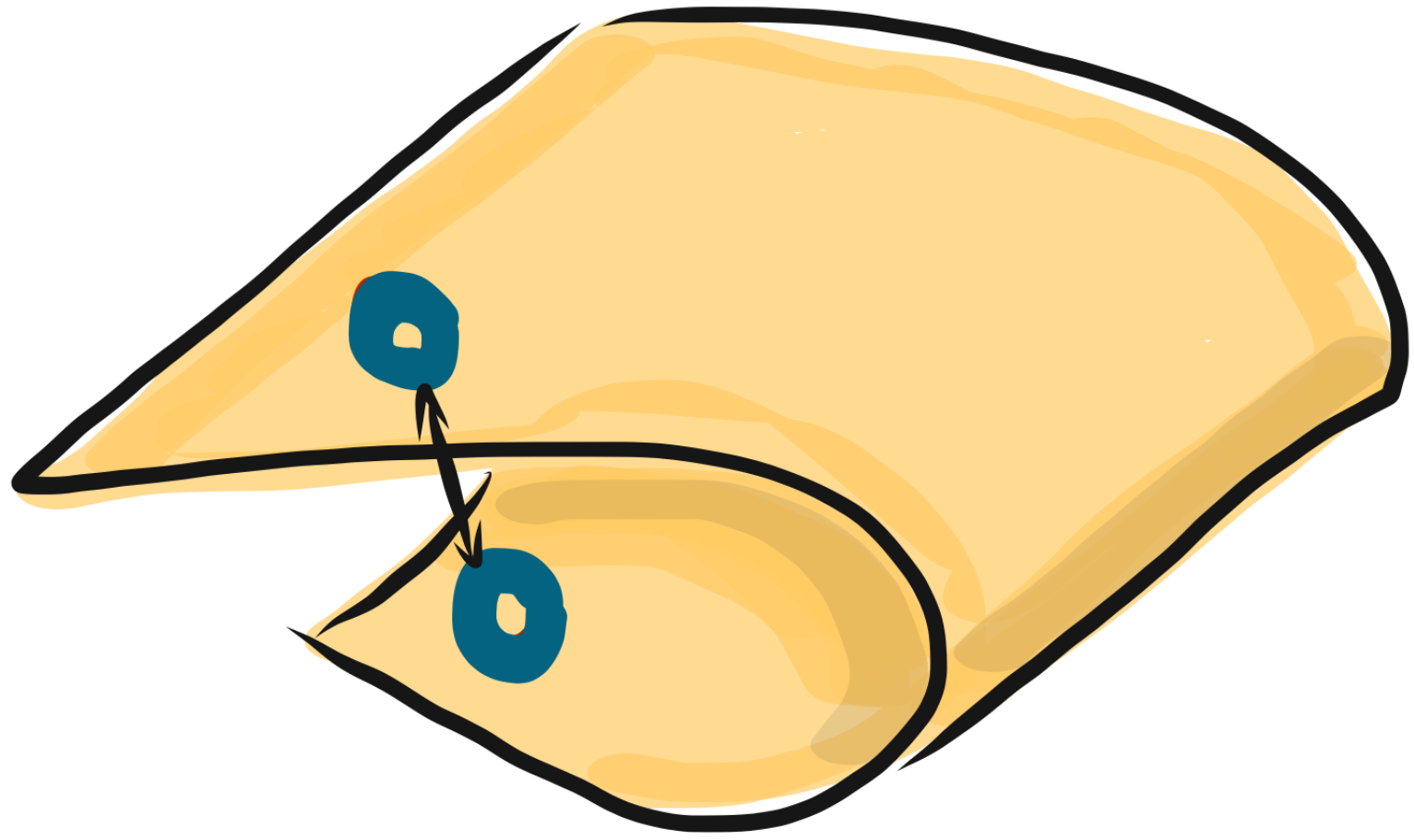
T-SNE

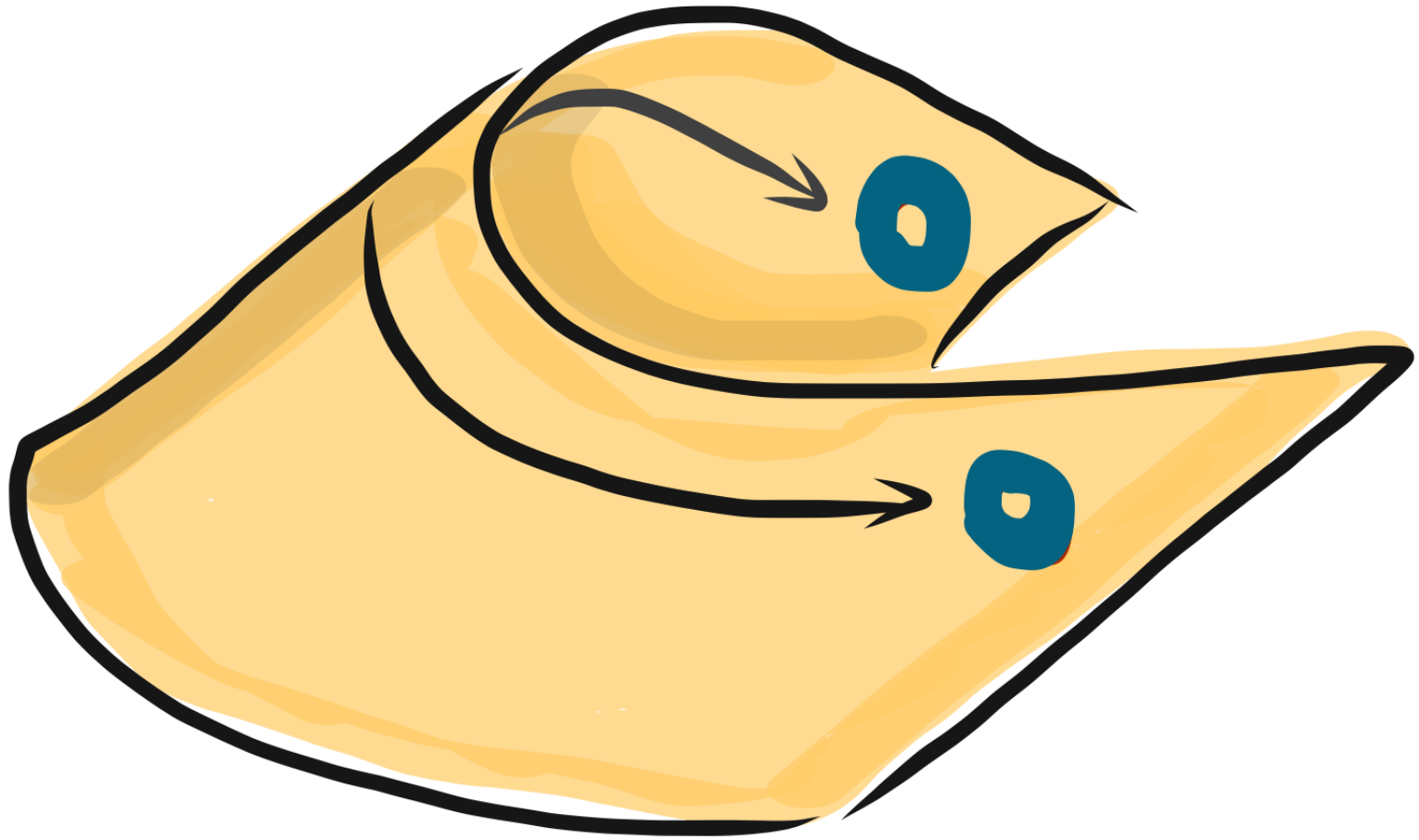
T-DISTRIBUTED STOCHASTIC NEIGHBOURHOOD EMBEDDING

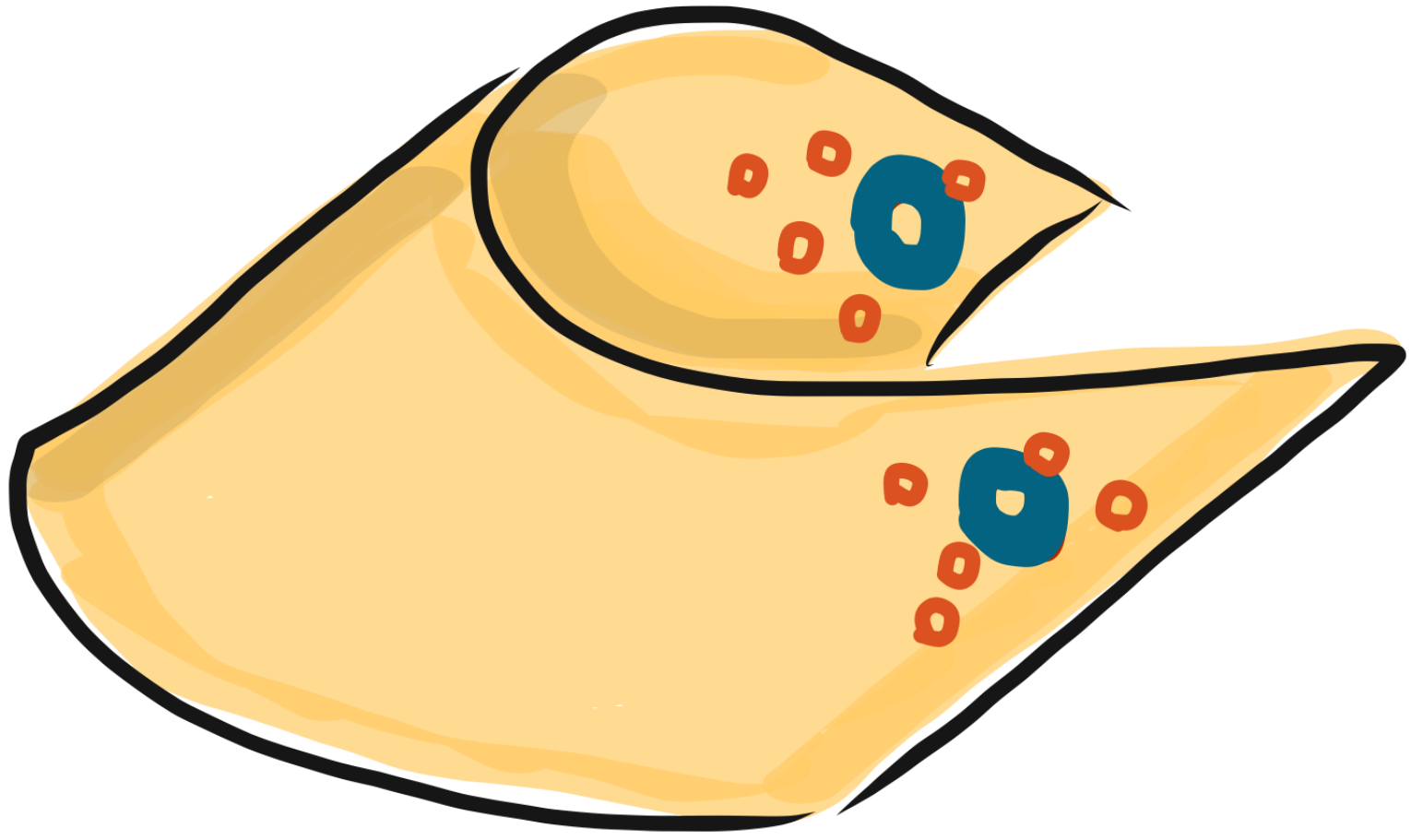
EMBEDDING

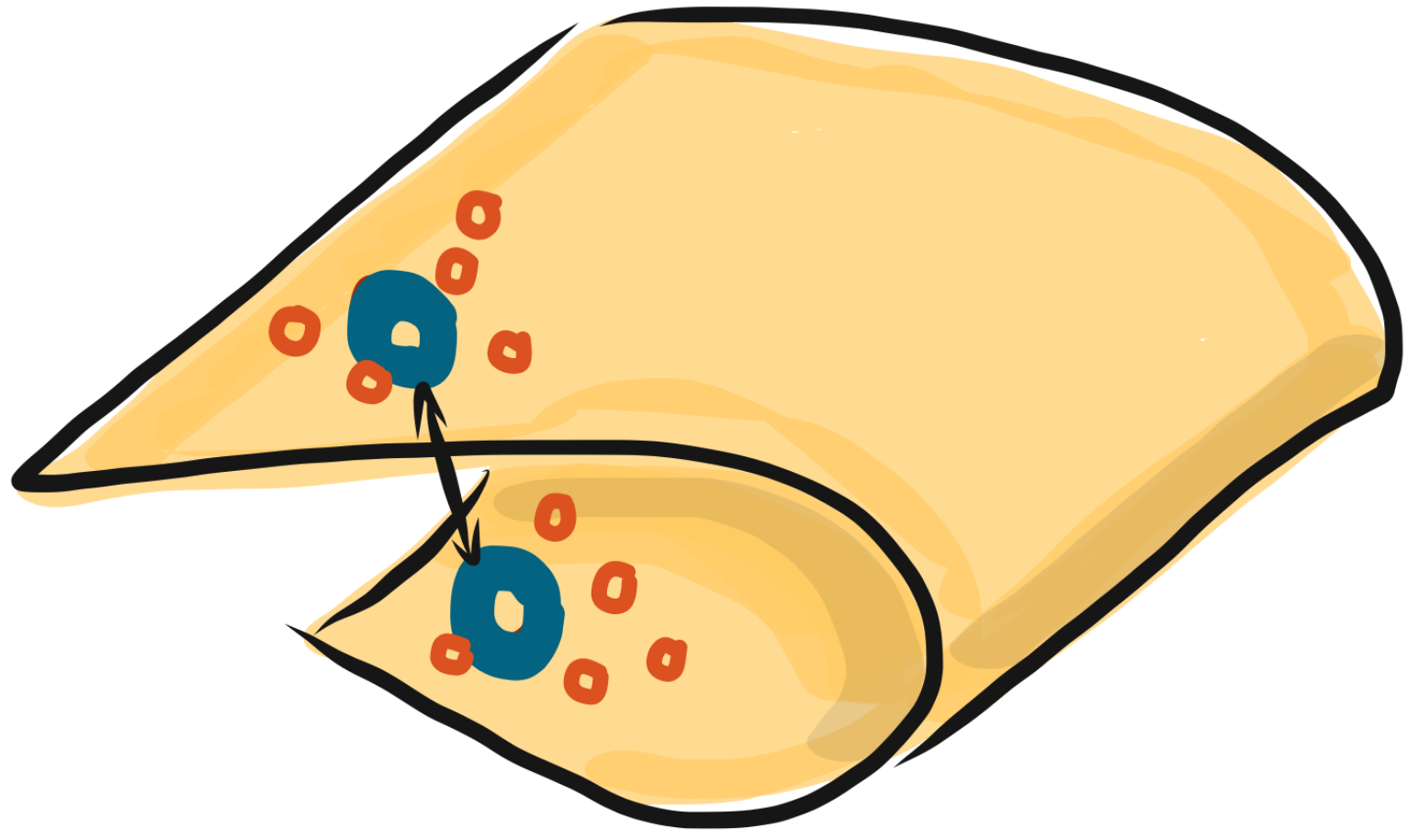










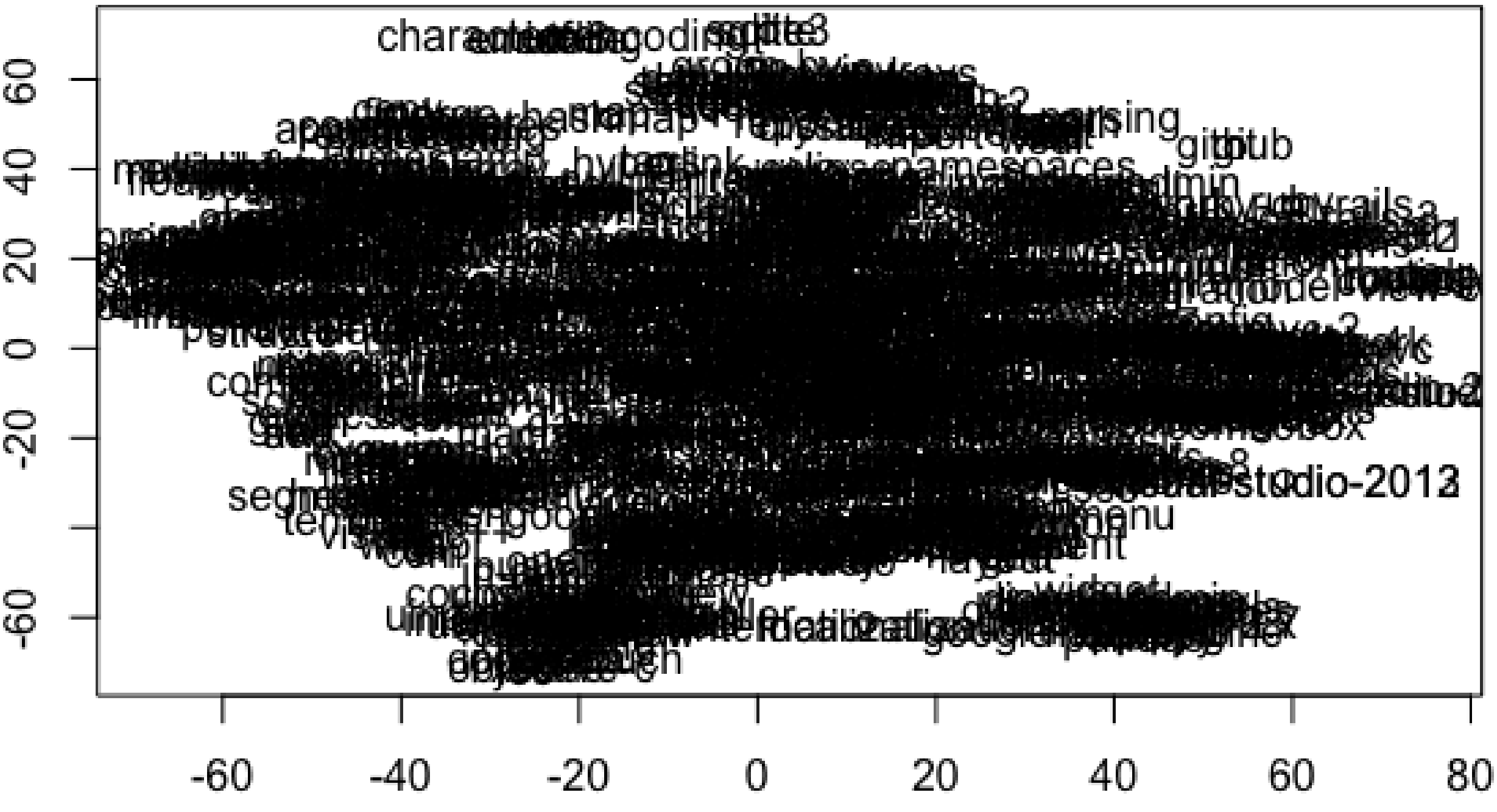


T-SNE IN R

```
1: library(tsne)
2:
3: ts <- tsne(m, perplexity=20)
4:
5: plot(ts)
```

T-SNE IN F#

```
1: open RProvider
2: open RProvider.tsne
3:
4: let ts = R.tsne(namedParams[ "X", box m; "perplexity", box 20])
5:
6: R.plot(ts)
```

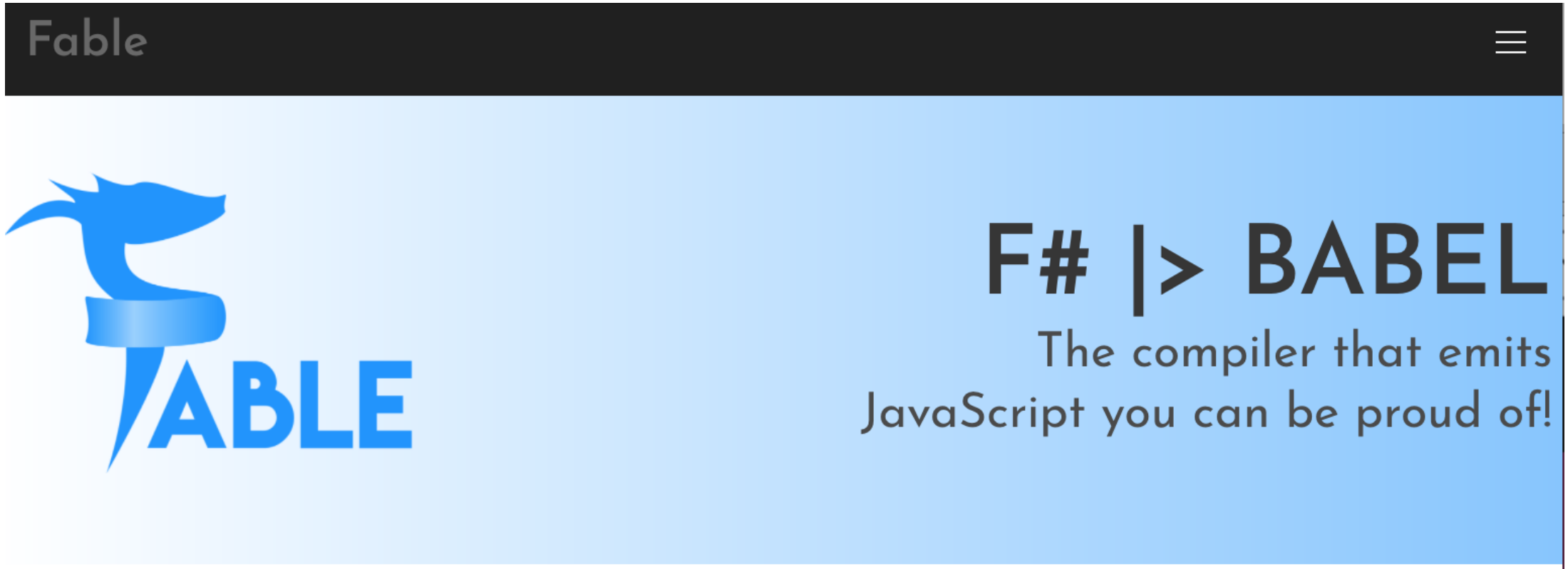

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ts01[, 1]

The best thing about R is that it was written by statisticians.

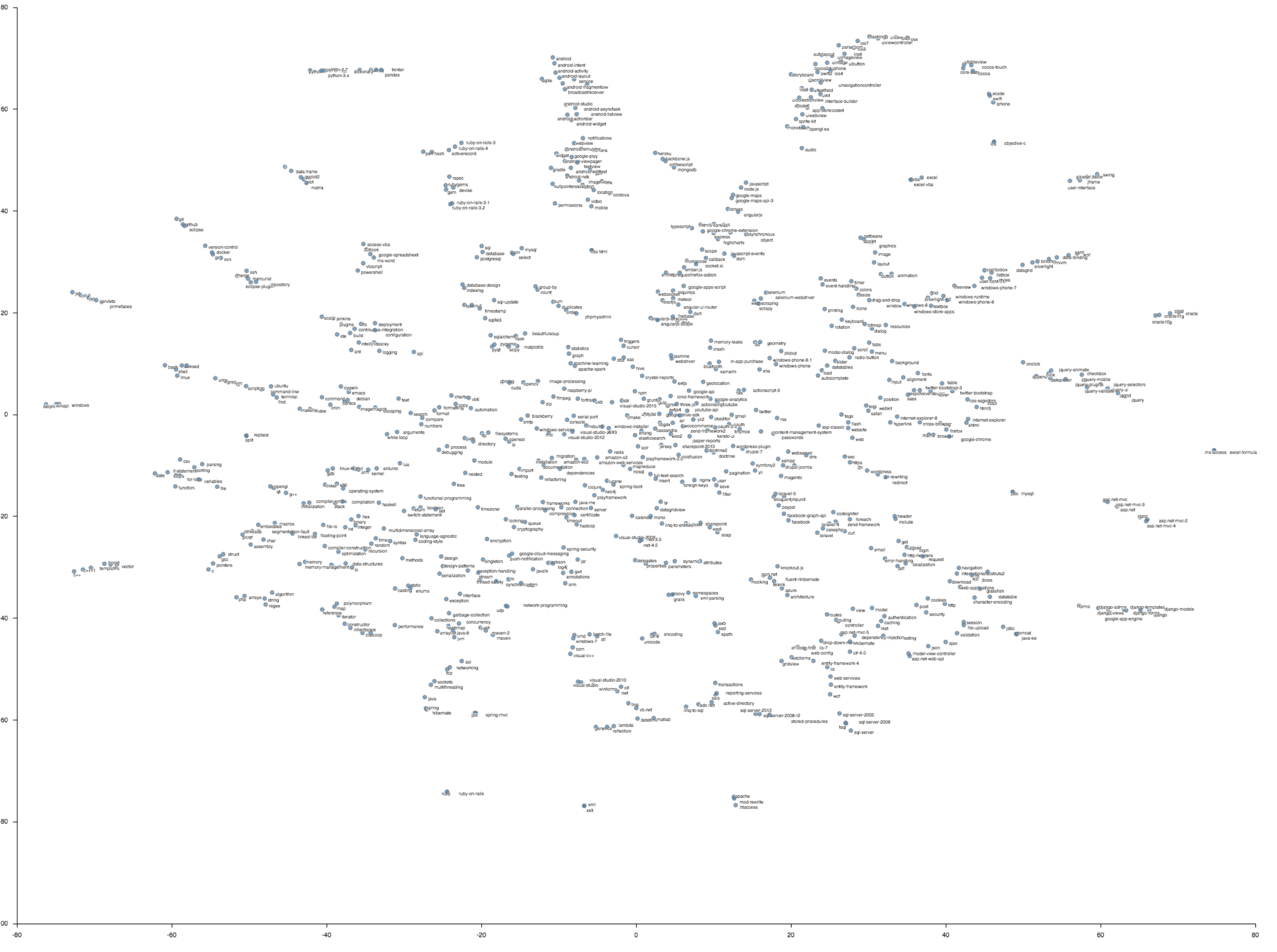
The worst thing about R is that it was written by statisticians.

Bow Cowgill, 2009

FABLE.IO

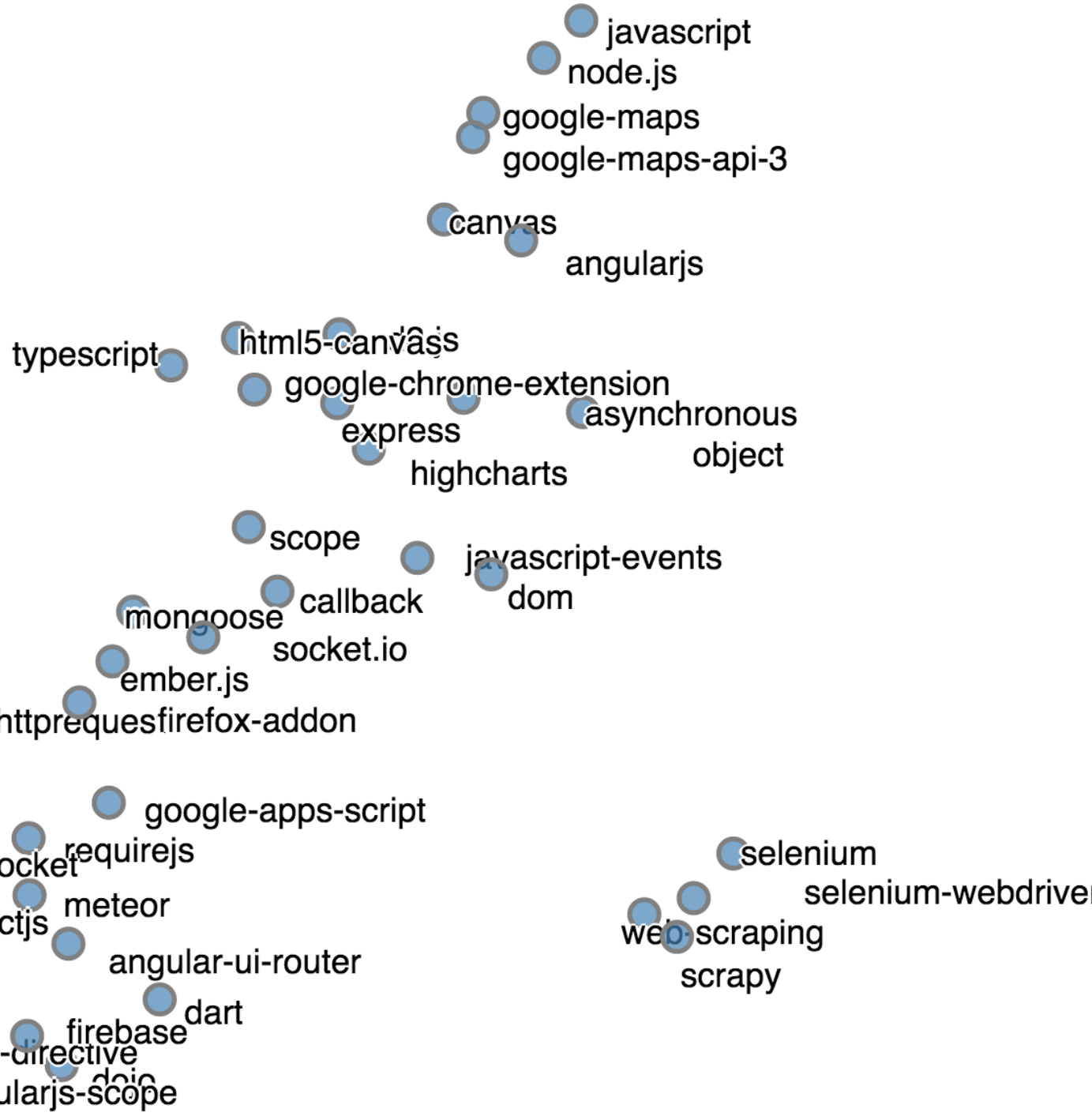


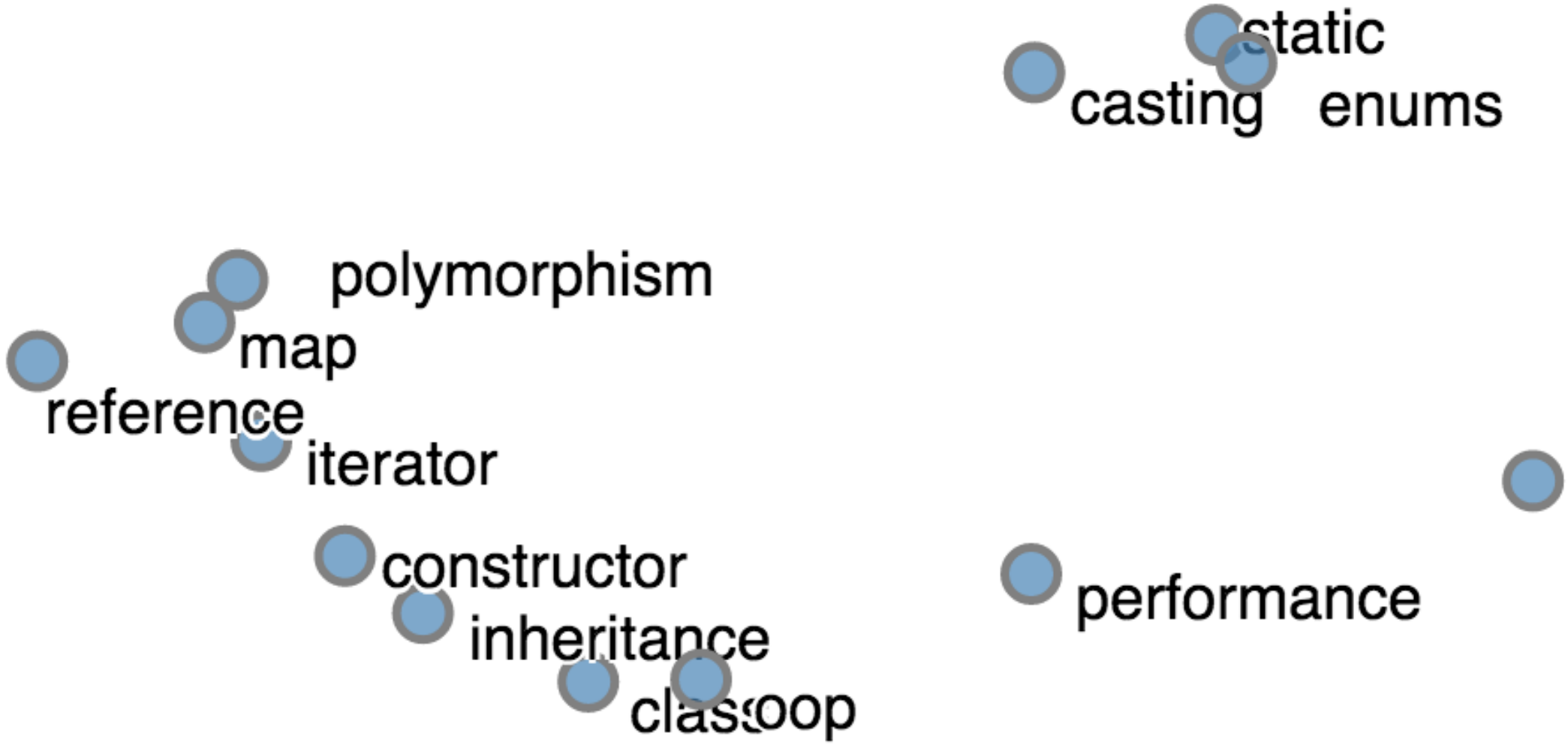
Fable is an F# to JavaScript compiler powered by Babel, designed to produce readable and standard code. Try it right now in your browser!



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python
python-2.7
python-3.x
dictionary
numpy
tkinter
pandas
android
android-intent
android-activity
android-layout
sqlite
service
android-fragments
broadcastreceiver
android-studio
android-asynctask
android-listview
android-actionbar
android-widget
notifications
webview
android-emulator
camera
widget
google-play
android-viewpager
textview
gradle
android-edittext
android-ndk
imageview
nullpointerexception
location
cordova
video
permissions
mobile
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ruby-on-rails-4
perl
hash
activerecord
rspec
rubygems
devise
gem
ruby-on-rails-3.1
ruby-on-rails-3.2
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ggplot2
plot
matrix
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github
eclipse
version-control
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svn
ssh
merge
mercurial
eclipse-plugin
repository
access-vba
outlook
google-spreadsheet
ms-word
vbscript
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postgresql
join
mysql
select
css
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jsf
jsf-2
jsp
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primefaces
scala
jenkins
plugins
tfs
deployment
continuous-integration
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ide
build
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proxy
ant
logging
api
database-design
indexing
group-by
count
sql-update
sum
duplicates
order
phpmyadmin
timestamp
sqlite3
sqlalchemy
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pyqt
scipy
matplotlib
statistics
graph
machine-learning
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triggers
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cygwin
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cron
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imagemagick
escaping
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winapi
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prolog
cuda
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gdb
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x86
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mongodb
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angularjs
typescript
html5-canvas
google-chrome-extension
express
highcharts
asynchronous
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scope
javascript-events
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callback
mongoose
socket.io
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xmlhttprequest
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reactjs
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dart
firebase
angularjs-directive
angularjs-scope
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web-scraping
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xcode4
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audio
uitableview
cocoa-touch
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asp.net-mvc-4
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upload
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request
email
error-handling
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pdf
navigation
internationalization
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ejb
jboss
download
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glassfish
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cookies
post
http
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routes
routing
controller
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caching
rest
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unit-testing
drop-down-menu
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iis-7
web-config
c#-4.0
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webforms
gridview
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iis
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entity-framework
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file-upload
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tomcat
java-ee
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django-templates
django-models
django-views
django-forms
django
google-app-engine


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android-studio
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webview
android-emulator
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android-ndk
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nullpointerexception
location
cordova
video
permissions
mobile


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callback
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ember.js
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websocket
meteor
reactjs
angular-ui-router
dart
firebase
angularjs-directive
angularjs-scope
selenium
selenium-webdriver
web-scraping
scrapy


static
casting
enums
polymorphism
map
reference
iterator
constructor
performance
inheritance
class
oop

✔ TAGS

✔ USERS

✔ TECHNOLOGIES

QUESTIONS AND ANSWERS

WORD2VEC

word embeddings

T-SNE

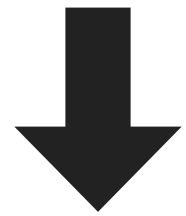
Point + local neighbourhood

↓

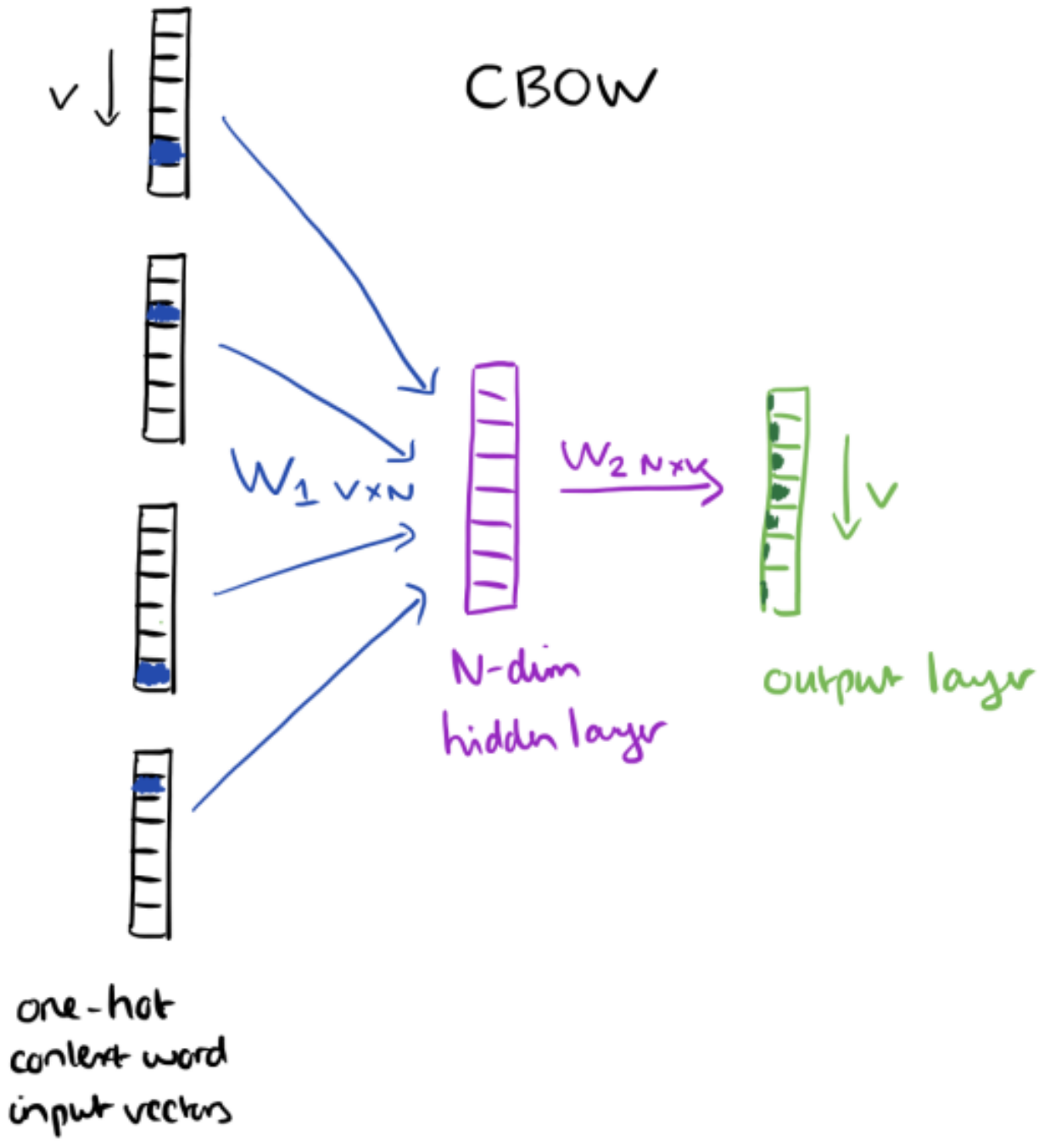
2D embedding

WORD2VEC

Word + local context

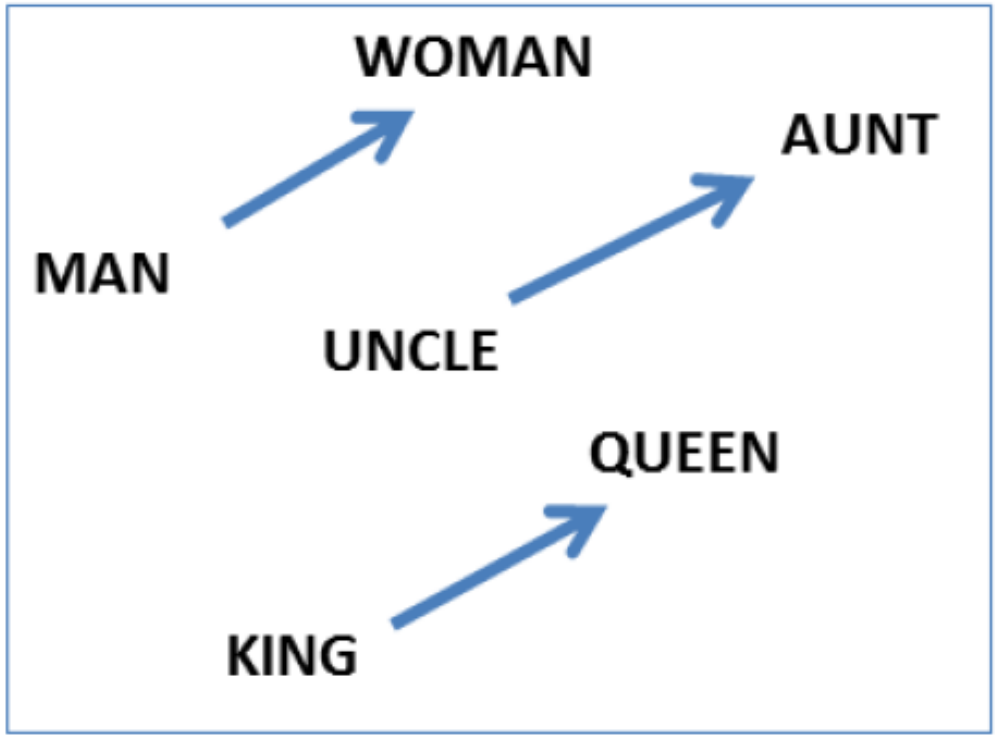


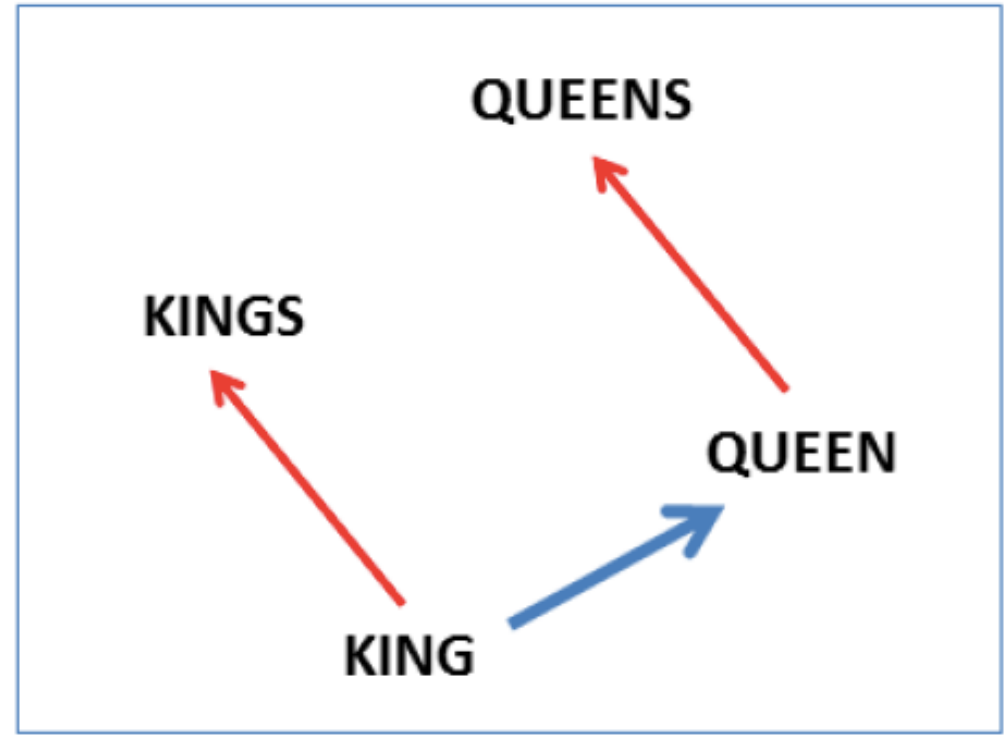
vector-space embedding



(image source: blog.acolyer.org/2016/04/21/the-amazing-power-of-word-vectors/)

VECTOR-SPACE EMBEDDING





WORD2VEC

F# is a functional language on the **.NET platform**.

Scala is a functional/object oriented language on the **JVM**.

SCALA - JVM + .NET

=

C#, F#

F# - .NET

=

SML, OCAML, GHCI, HASKELL, IDRIS

TECHNOLOGICAL SIDE OF THINGS

TOOL FOR THE JOB

DATA SCIENCE SIDE OF THINGS

QUESTIONS


EVELINA
GABASOVA
@EVELGAB
EVELINAG.COM