

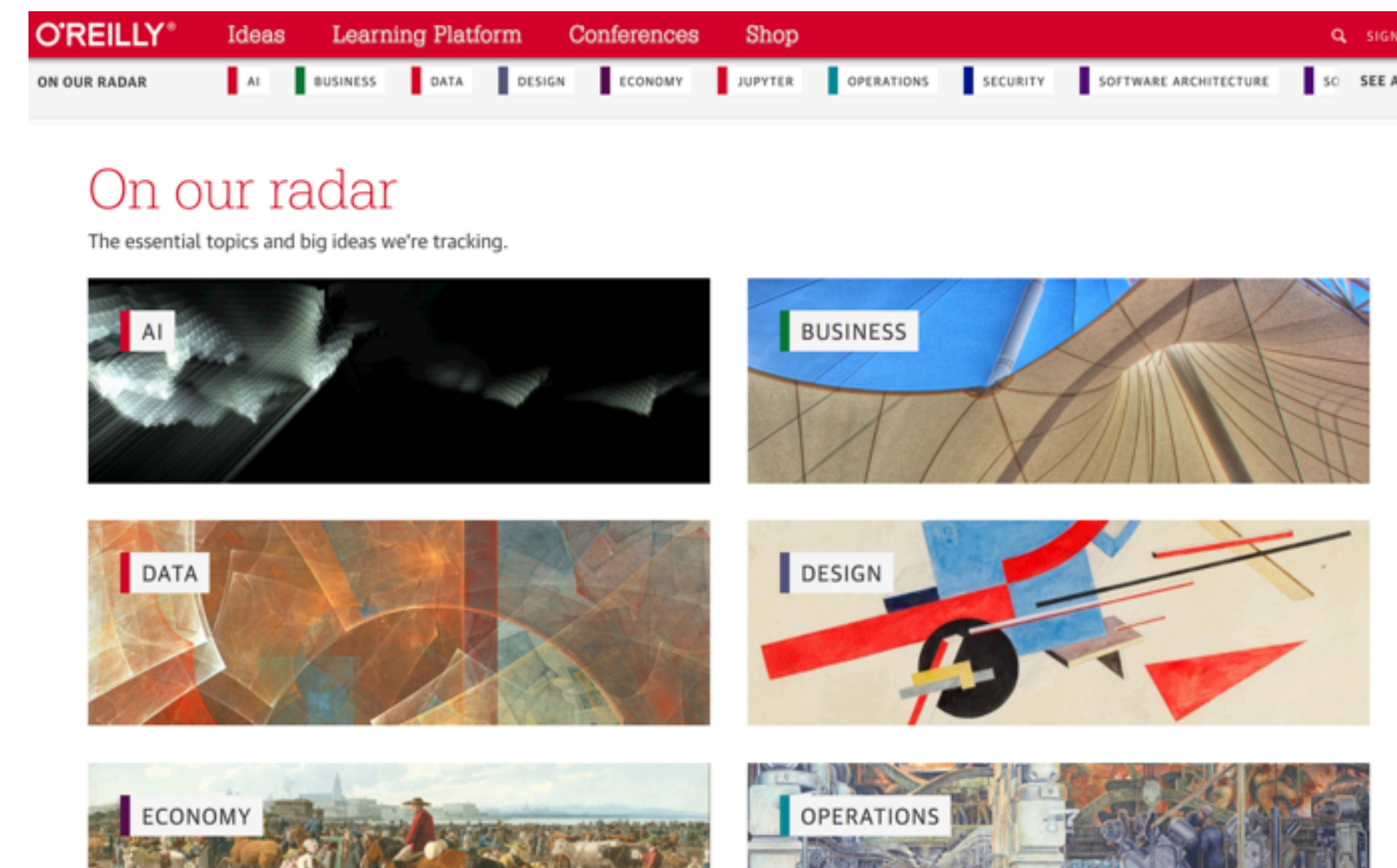
O'Reilly Radar: Open Source Tool Trends - What Our Users Tell Us

Roger Magoulas

July 19, 2018

O'Reilly Radar

- Assessing world of technology & the technology impact on the world
 - Open Source, Web 2.0, Big Data, DevOps, Next:Economy (WTF)
- Trend Analysis
 - Qualitative and Quantitative
 - External and Internal Data Sources



Open Source Tool Trends

- Trends
- Emerging Topics
- O'Reilly Learning Platform (Safari)
 - Search
 - Content Usage

The screenshot displays the O'Reilly Learning Platform (Safari) interface. At the top, the O'Reilly logo is on the left, and a search bar with the text "Find a solution" is on the right. Below the logo is a vertical sidebar menu with options: Browse, Recommended, Playlists, History, Topics, Tutorials, Conferences, Newsletters, Highlights, Settings, and Support. The main content area features a section titled "Live Online Training" with the subtitle "Get hands-on training from experts and industry leaders with our live video courses." and a "See More >" link. Below this, there are five course cards, each with a speaker's photo, a "LIVE ONLINE TRAINING" icon, a date, a title, a presenter, and a status. The first card is for "Blockchain Applications and S..." presented by Jim Steele, dated July 19, 2018, with a "WAIT LIST STARTED" status. The second card is for "Scaling Python With Generators" presented by Aaron Maxwell, dated July 19, 2018, with a "30 SPOTS REMAINING" status. The third card is for "Cybersecurity Offensive and Defe..." presented by Omar Santos, dated July 20, 2018, with a "WAIT LIST STARTED" status. The fourth card is for "Pythonic object-oriented pro..." presented by Aaron Maxwell, dated July 20, 2018, with a "4 SPOTS REMAINING" status. The fifth card is partially visible, titled "Real-tir founda" presented by someone, dated July 23, 2018, with a "WAIT LIST S" status. Below the course cards, there is a "Learning Paths" section with the subtitle "Learn at your own pace with our expert-curated learning paths." and a "See More >" link.

O'REILLY®

Find a solution

Filter by: All

Search

Live Online Training

Get hands-on training from experts and industry leaders with our live video courses.

[See More >](#)

LIVE ONLINE TRAINING

JULY 19, 2018

Blockchain Applications and S...

Presented by Jim Steele

WAIT LIST STARTED

LIVE ONLINE TRAINING

JULY 19, 2018

Scaling Python With Generators

Presented by Aaron Maxwell

30 SPOTS REMAINING

LIVE ONLINE TRAINING

JULY 20, 2018

Cybersecurity Offensive and Defe...

Presented by Omar Santos

WAIT LIST STARTED

LIVE ONLINE TRAINING

JULY 20, 2018

Pythonic object-oriented pro...

Presented by Aaron Maxwell

4 SPOTS REMAINING

LIVE ONLINE TRAINING

JULY 23, 2018

Real-tir founda

Presented by

WAIT LIST S

Learning Paths

Learn at your own pace with our expert-curated learning paths.

[See More >](#)

O'Reilly Learning Platform

- Safari
 - Online Learning Resource
 - safaribooksonline.com
- 50,000+ Titles
 - Text, Video, Audio, Interactive, (Jupyter) Notebooks, Live OnLine Training

O'Reilly Learning Platform

- Demographics
 - 2,500,000 Paid (Licensed) Users
 - 5,100 Group/Enterprise Customers
 - 30% of Fortune 1000
 - 60% of Customers w/ 10,000+ Employees
 - 68,000 Individual Subscribers
 - Linear + Non-Linear Learning - Search for Answers

Demographics - Top Industries

Industry	Account Share	Usage Share
Consulting & Professional Services	20%	30%
Finance & Banking	9%	18%
Software	7%	14%
Computers, Electronics & HW	4%	14%
Non-profit / Prof Association	2%	5%
Retail / E-Commerce	4%	3%
Manufacturing	3%	2%
Media / Entertainment	5%	2%
Higher Education	5%	2%

Bias + Notes

- Enterprise-Scale
 - Consulting / F&B / SW / HW
- Consider Maturity
 - Newer Tech Gets More Attention
- Tech Takes Time
- Pay Attention To Scale
- Search: Long Tail

Search

- Top Searches
- Programming Languages
- ML/AI

The screenshot displays the O'Reilly search interface. At the top, the O'Reilly logo is on the left, followed by a search bar containing the text "Find a solution". To the right of the search bar is a filter dropdown set to "All" and a red "Search" button. Below the search bar, a red banner displays the O'Reilly logo. A vertical sidebar on the left contains icons for home, search, list, clock, hexagon, network, book, quote, and settings. The main content area shows "1-10 OF 10956 SEARCH RESULTS FOR" followed by a search bar containing "Everything" and "site reliability". Below this, filters are shown: "Showing all media in all topics from all publishers sorted by Relevance". A section titled "Browsing? Try our topics pages." is followed by a search result for "The Site Reliability Workbook" by Stephen Thorne, Kent Kawahara, David K. Rensin, Niall Richard Murphy, and Betsy Beyer. The publisher is O'Reilly Media, Inc., and it was published in August 2018. The result includes a book cover, a 5-star rating, and "2 REVIEWS". A paragraph of text describes the book's focus on Site Reliability Engineering.

O'REILLY®

Find a solution

Filter by: All ▼

Search

O'REILLY®

1-10 OF 10956 SEARCH RESULTS FOR

Everything ▼ site reliability

Showing all media in all topics from all publishers sorted by Relevance

Browsing? Try our topics pages.

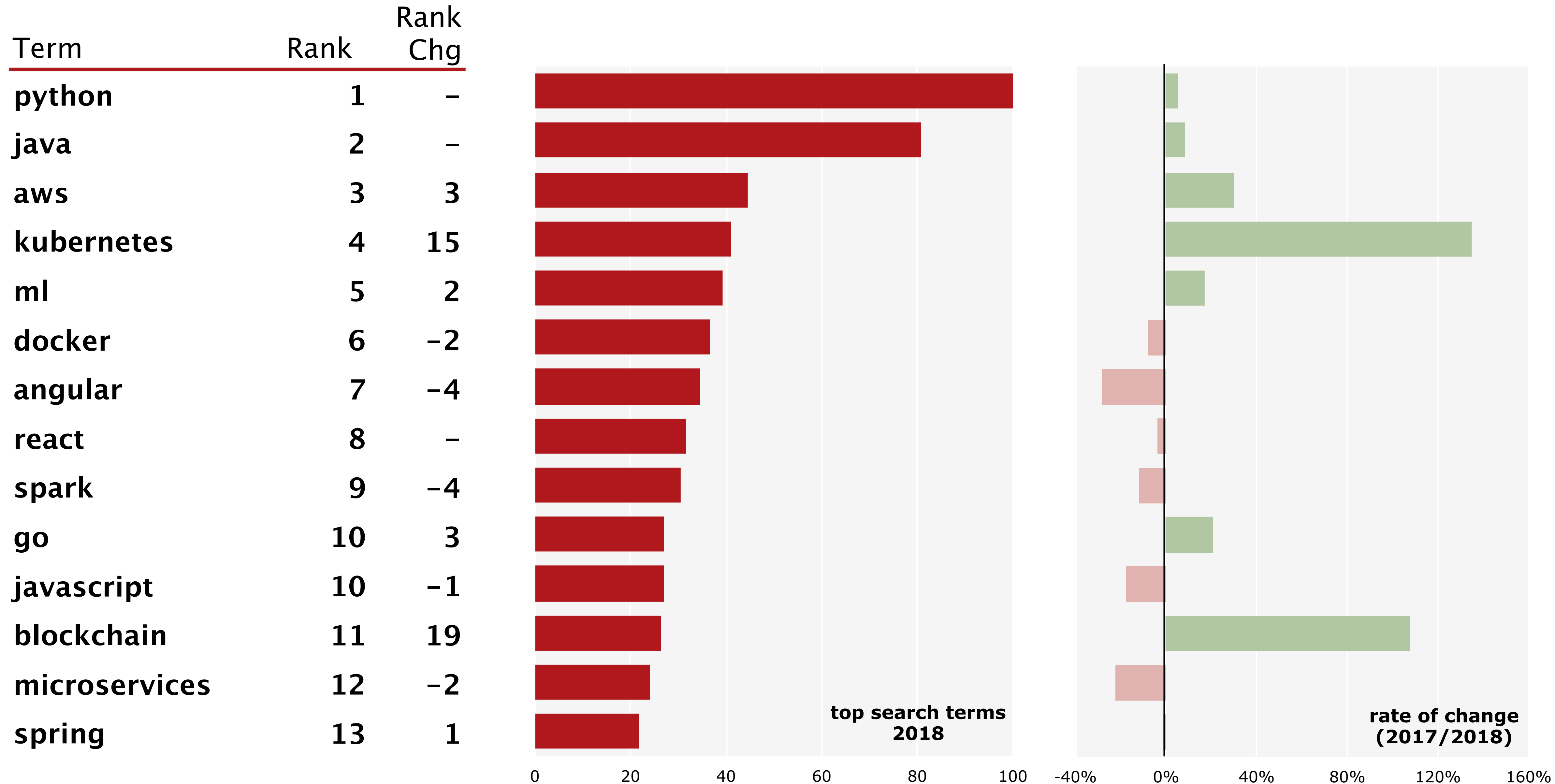
SEARCH HELP

The Site Reliability Workbook
by Stephen Thorne , Kent Kawahara , David K. Rensin , Niall Richard Murphy , Betsy Beyer
Publisher: O'Reilly Media, Inc.
Published: August 2018

★★★★★
2 REVIEWS

In 2016, Google's **Site Reliability Engineering** book ignited an industry discussion on what it means to run production services today—and why **reliability** considerations are fundamental to service design. Now, Google engineers who worked on that bestseller introduce The **Site Reliability Workbook**, a hands-on companion that uses concrete examples to show you how to put SRE principles and practices to work in your environment.

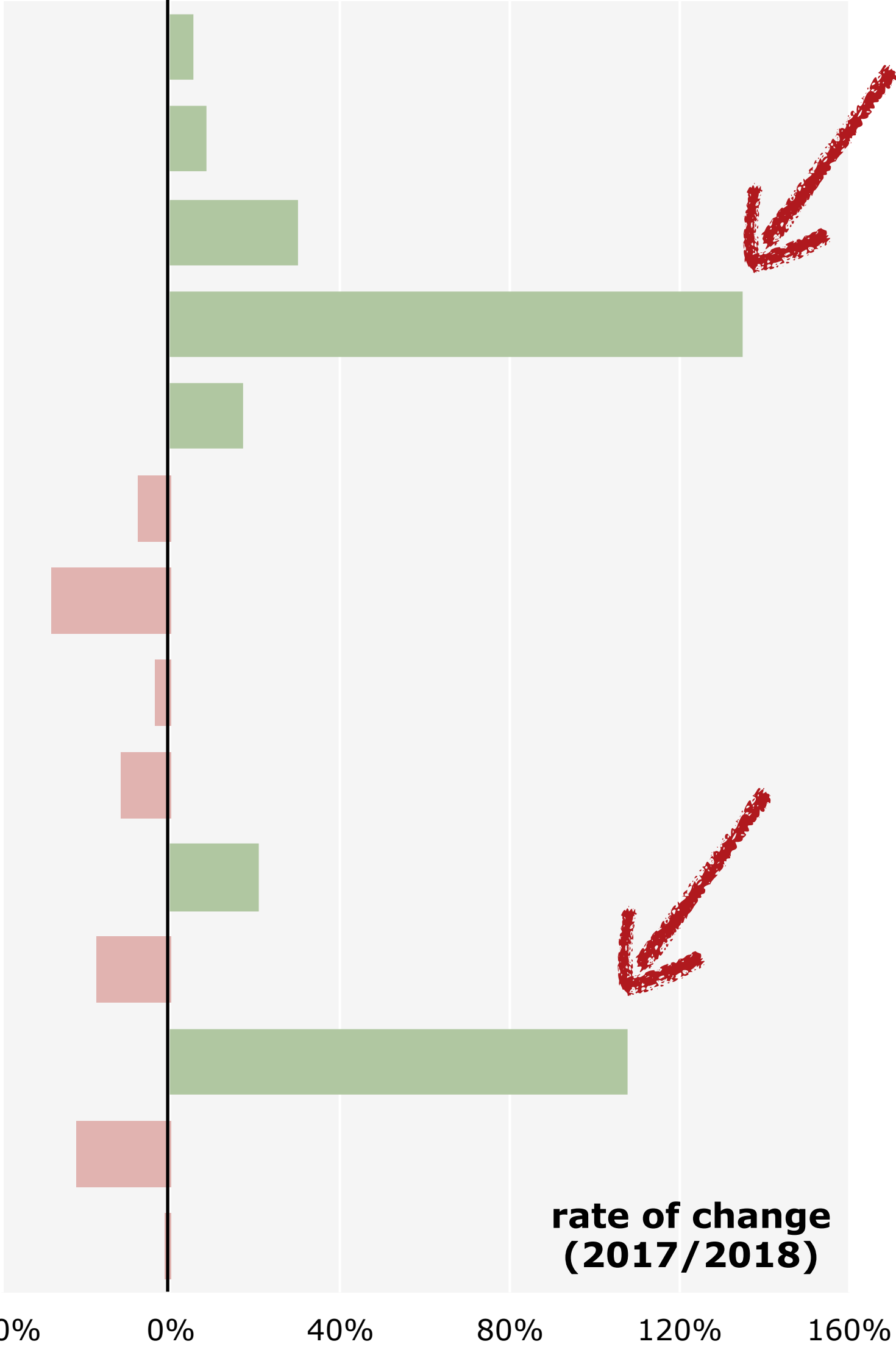
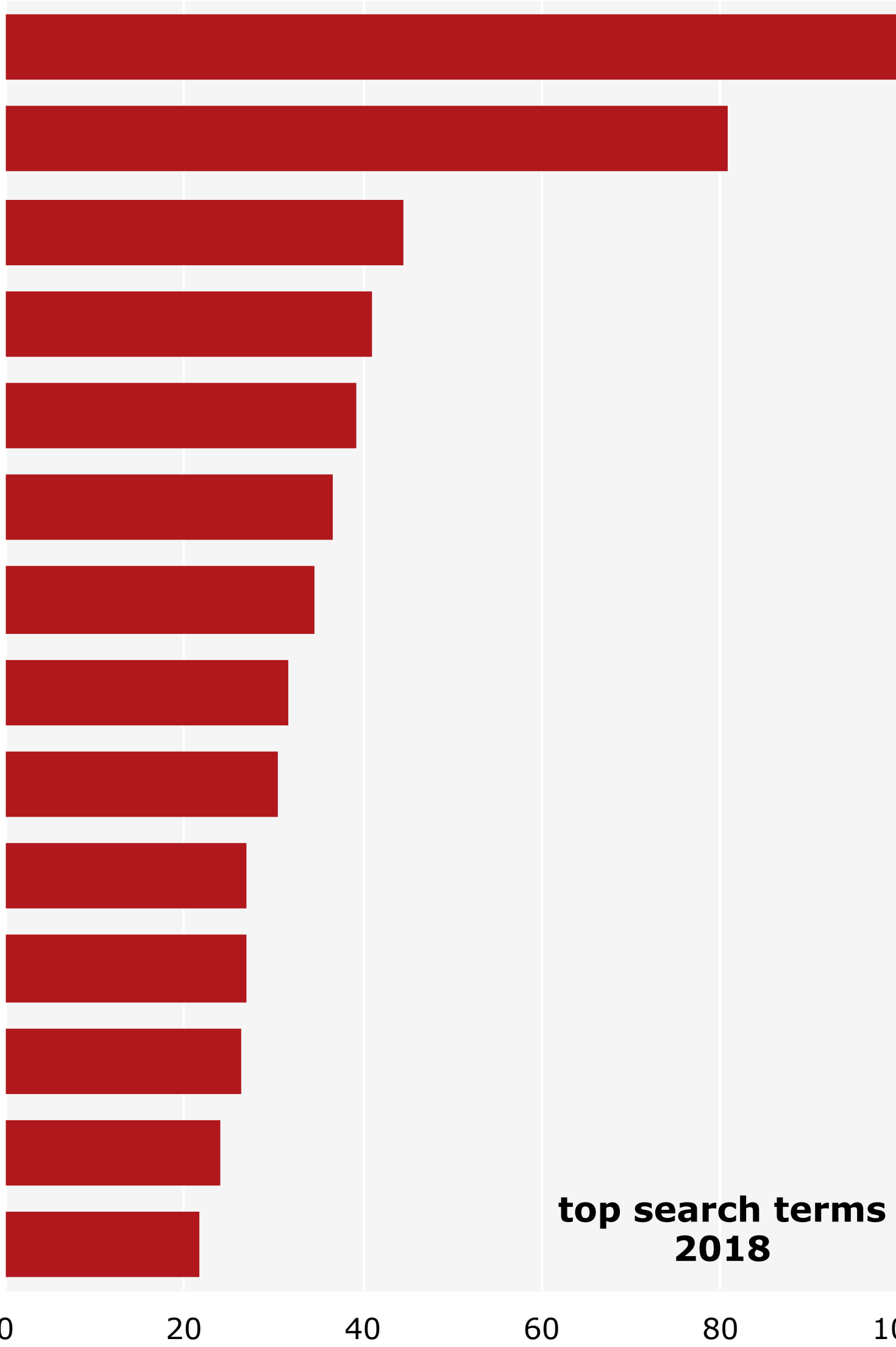
Top Searches - 2018



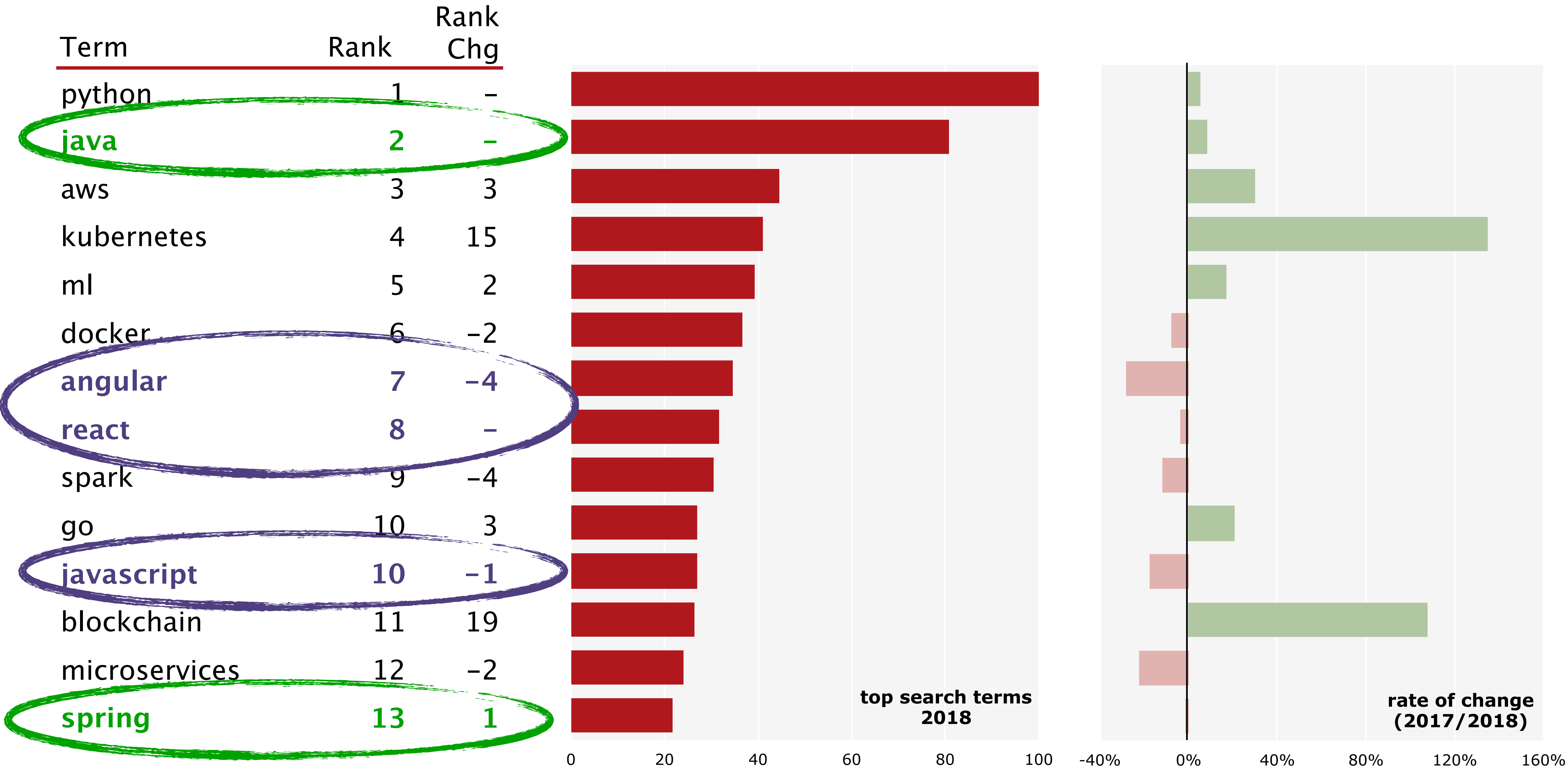
Top Searches - 2018

Term	Rank	Rank Chg
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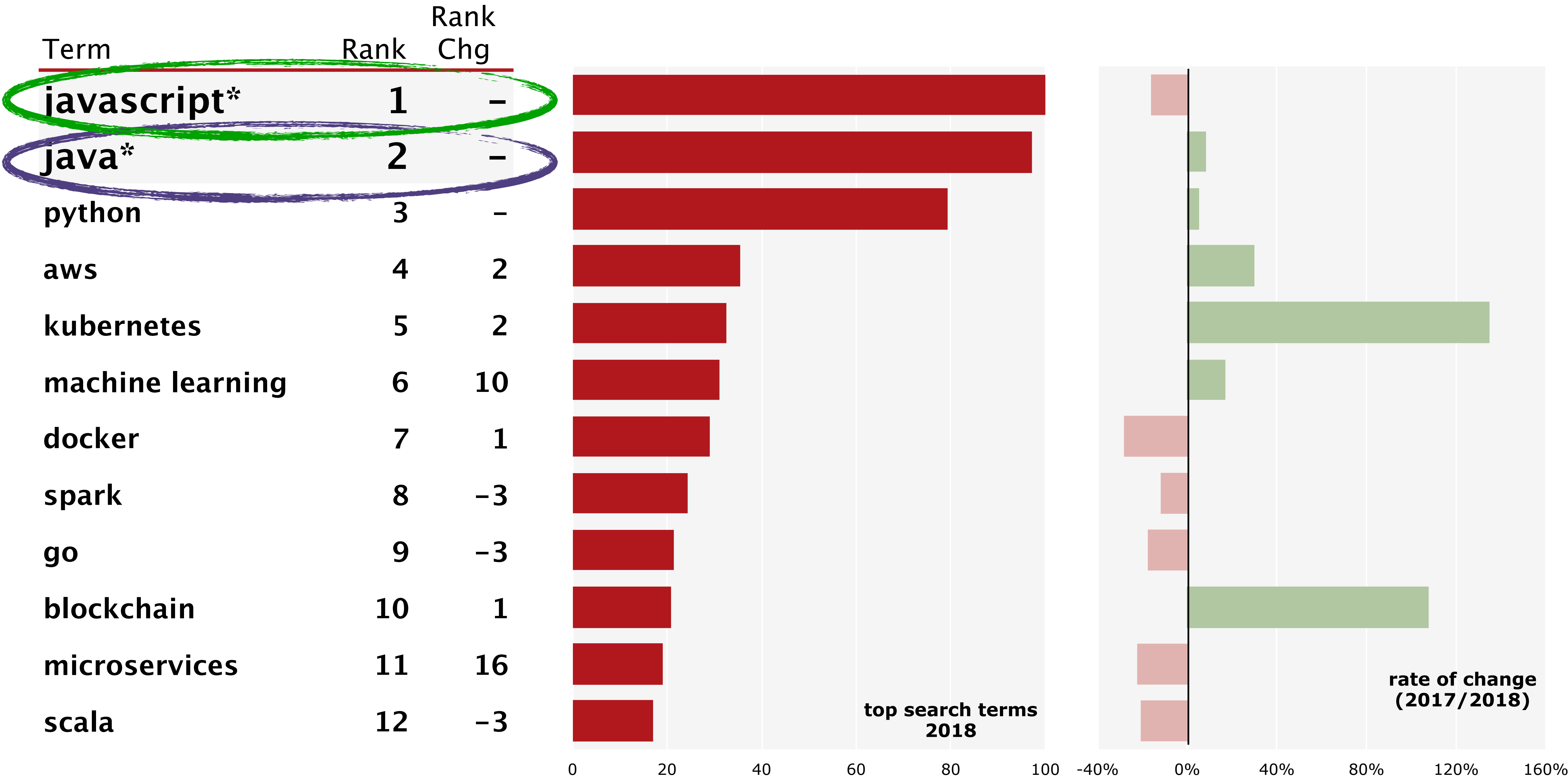
python	1	-
java	2	-
aws	3	3
kubernetes	4	15
ml	5	2
docker	6	-2
angular	7	-4
react	8	-
spark	9	-4
go	10	3
javascript	10	-1
blockchain	11	19
microservices	12	-2
spring	13	1



Top Searches - 2018

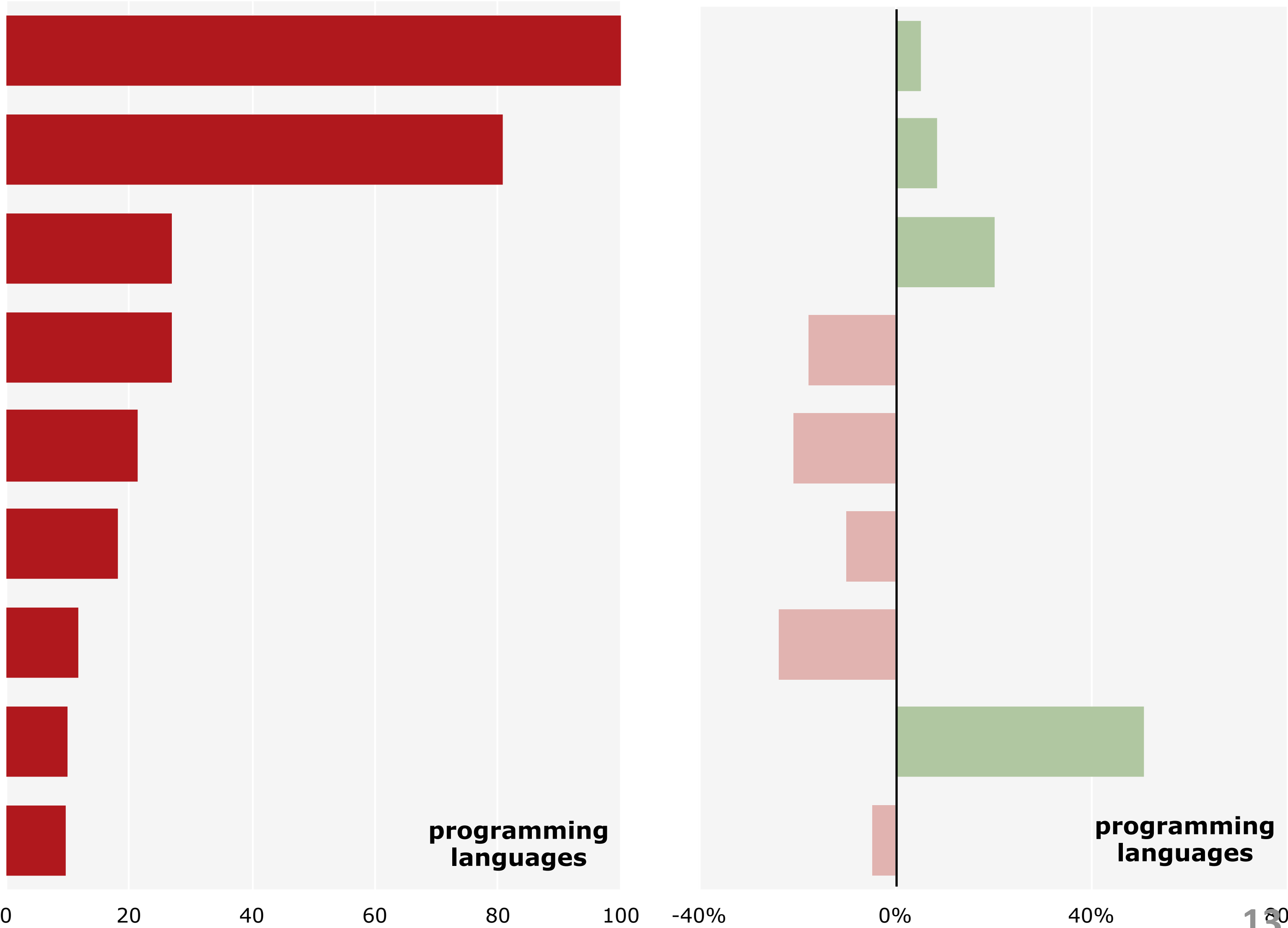


Top Searches - 2018

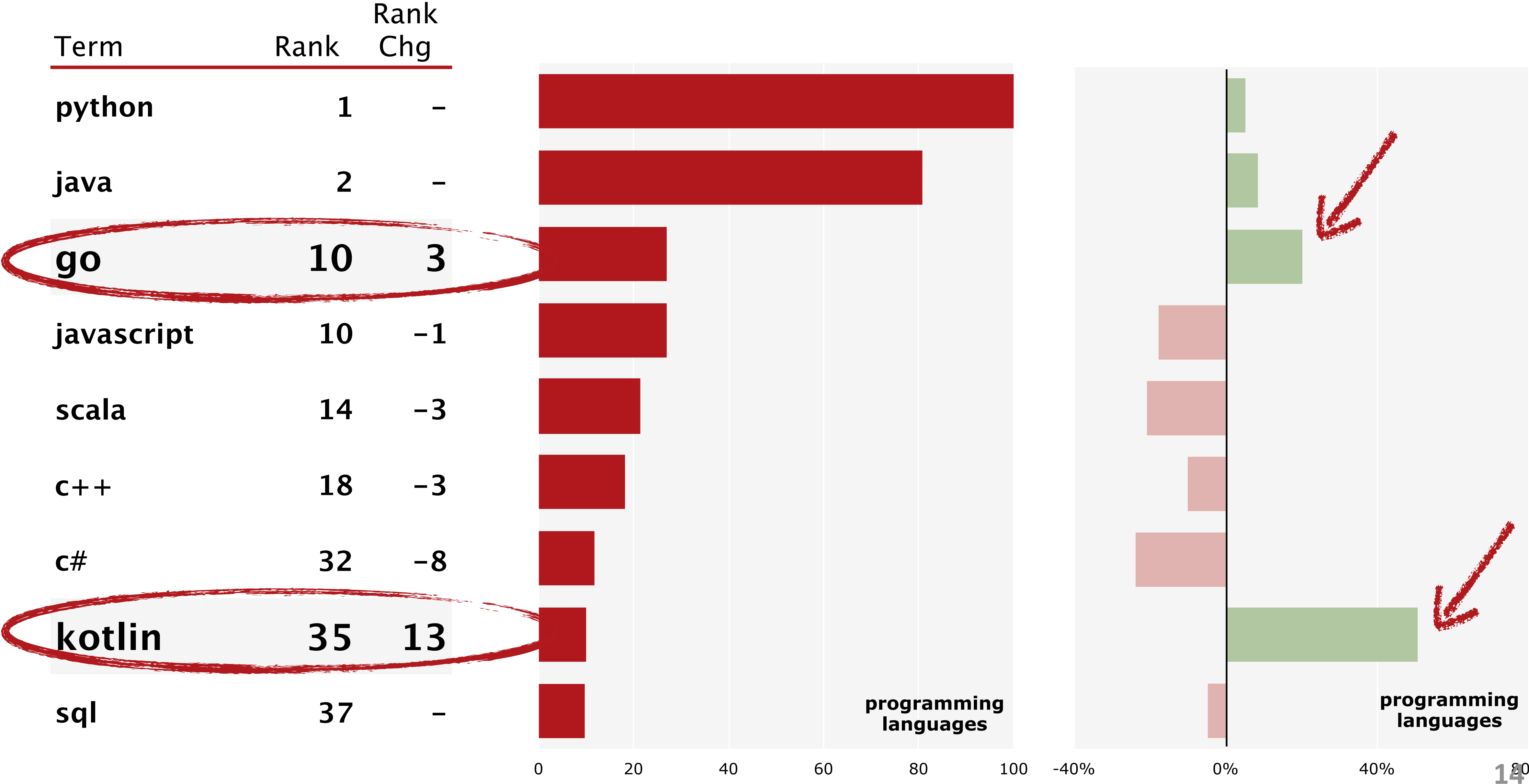


Programming Languages - Top

Term	Rank	Rank Chg
python	1	-
java	2	-
go	10	3
javascript	10	-1
scala	14	-3
c++	18	-3
c#	32	-8
kotlin	35	13
sql	37	-

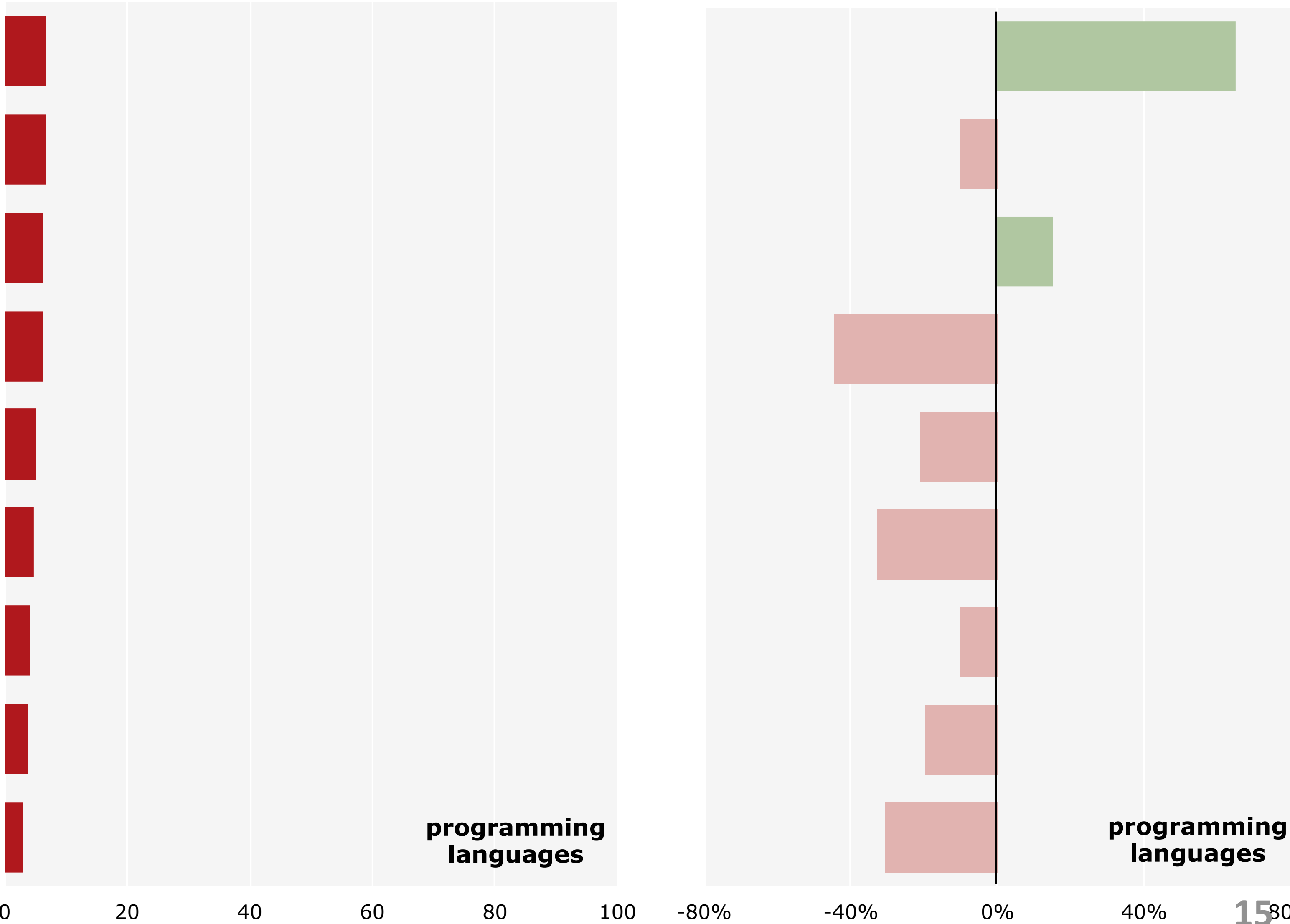


Programming Languages - Top

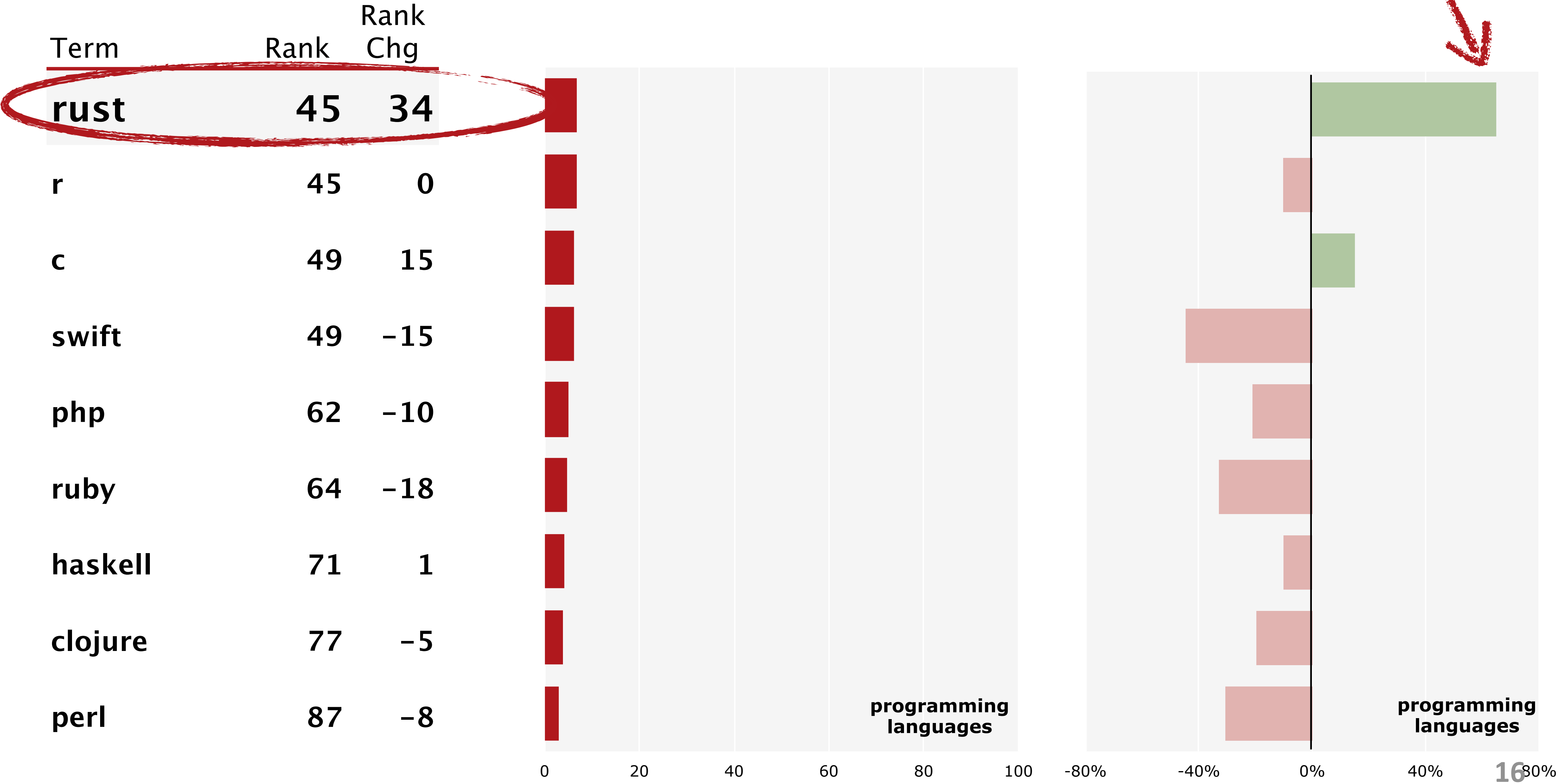


Programming Languages - Next

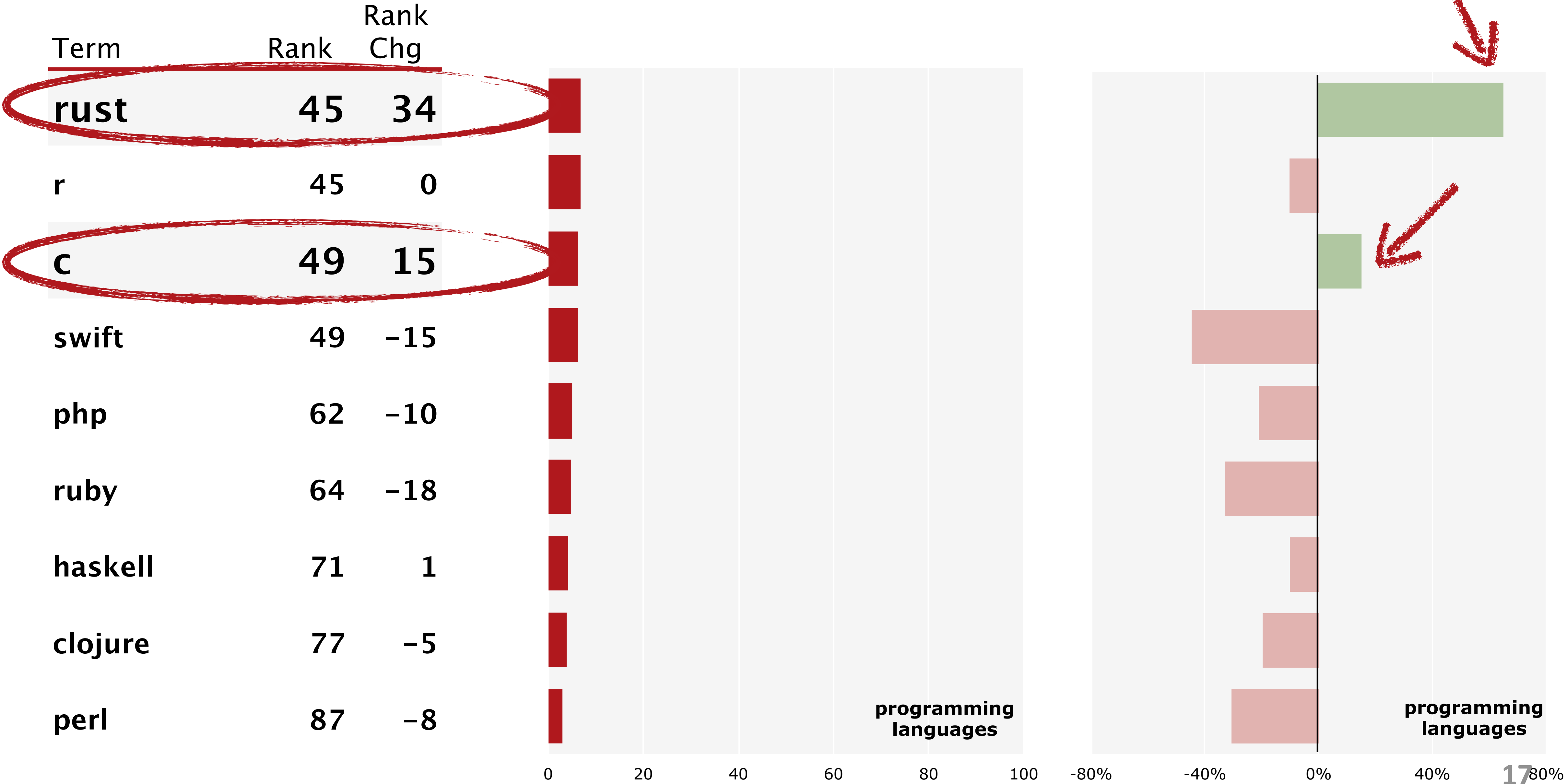
Term	Rank	Rank Chg
rust	45	34
r	45	0
c	49	15
swift	49	-15
php	62	-10
ruby	64	-18
haskell	71	1
clojure	77	-5
perl	87	-8



Programming Languages - Next

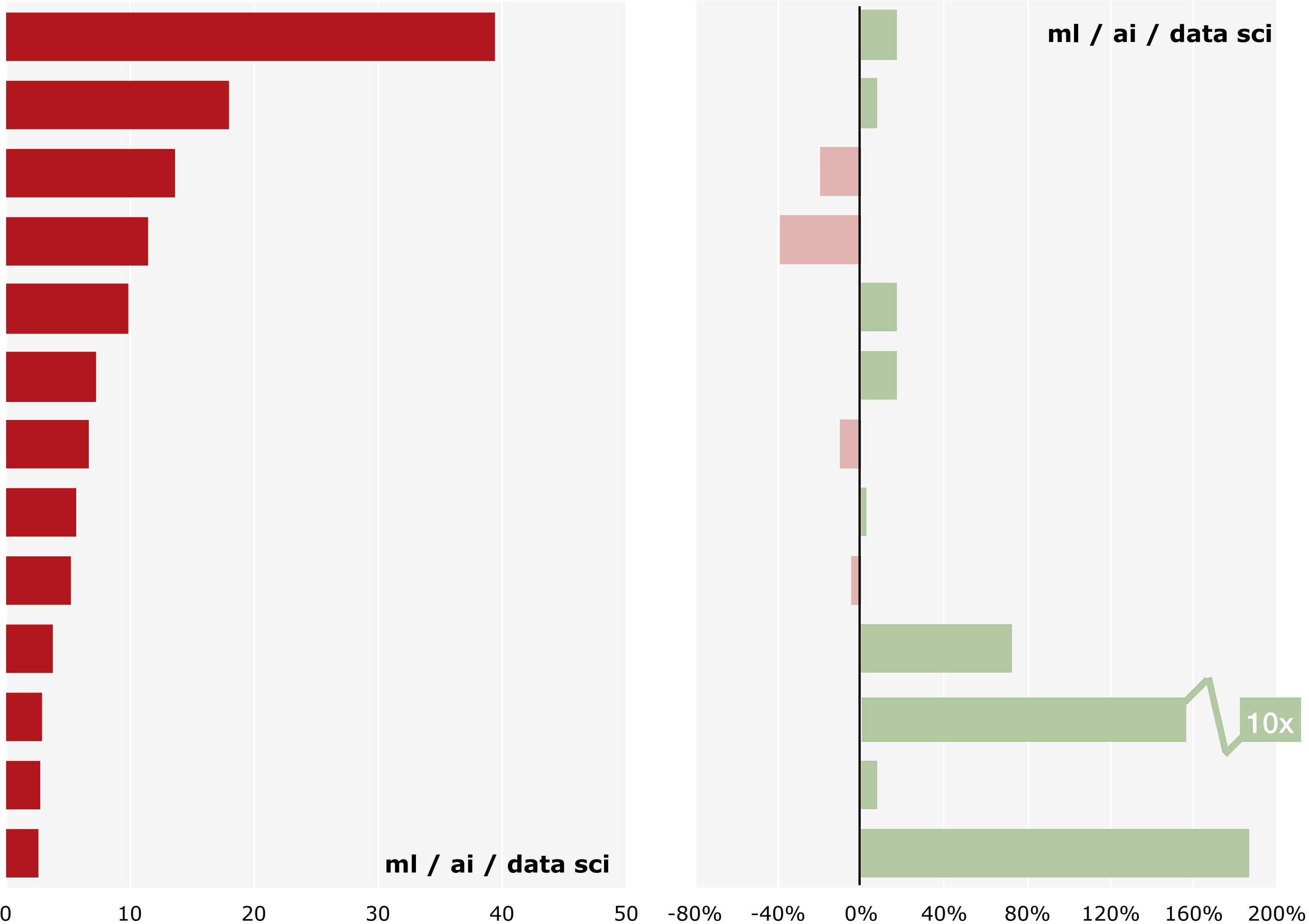


Programming Languages - Next

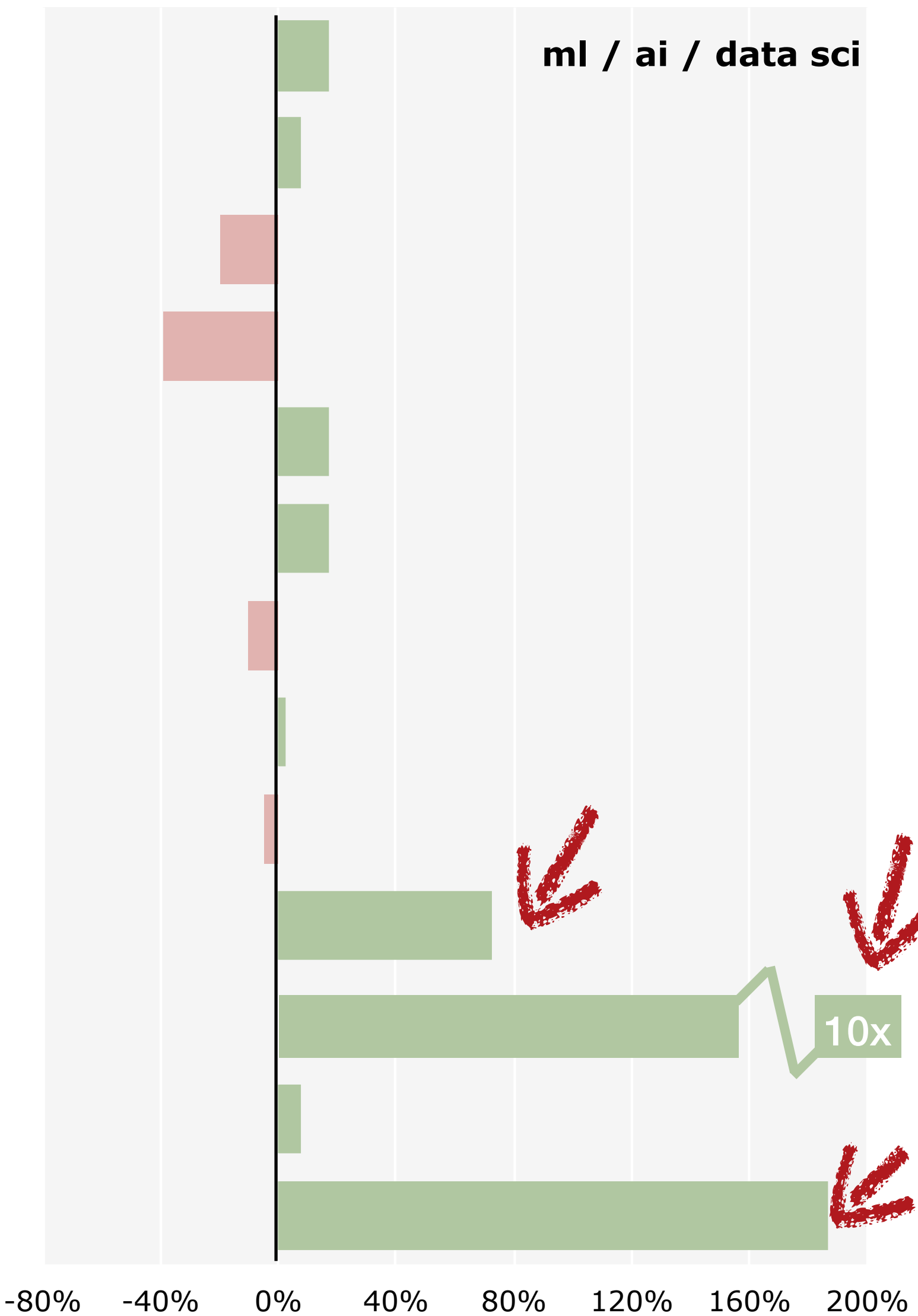
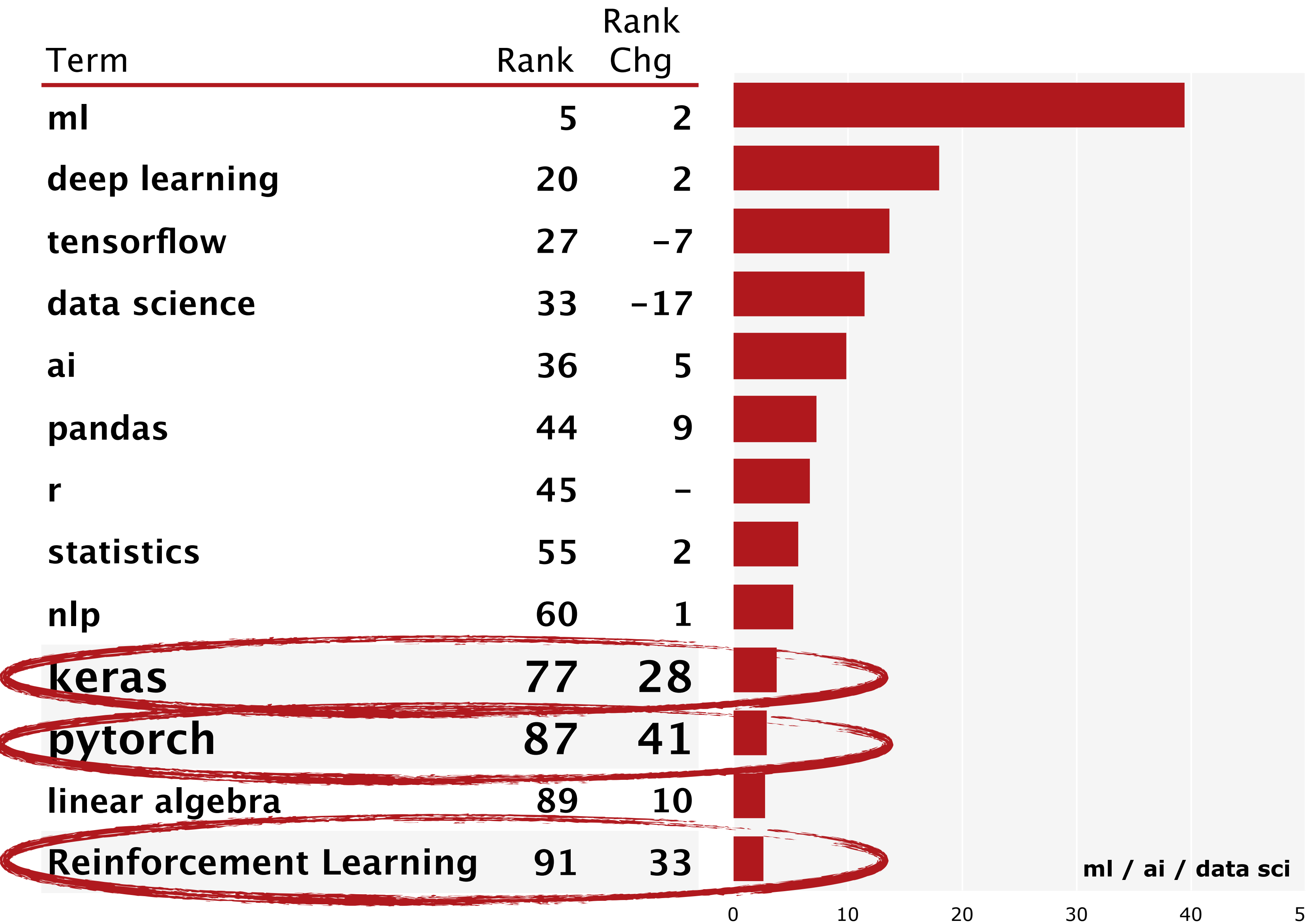


Machine Learning / AI / Data Sci

Term	Rank	Rank Chg
ml	5	2
deep learning	20	2
tensorflow	27	-7
data science	33	-17
ai	36	5
pandas	44	9
r	45	-
statistics	55	2
nlp	60	1
keras	77	28
pytorch	87	41
linear algebra	89	10
Reinforcement Learning	91	33



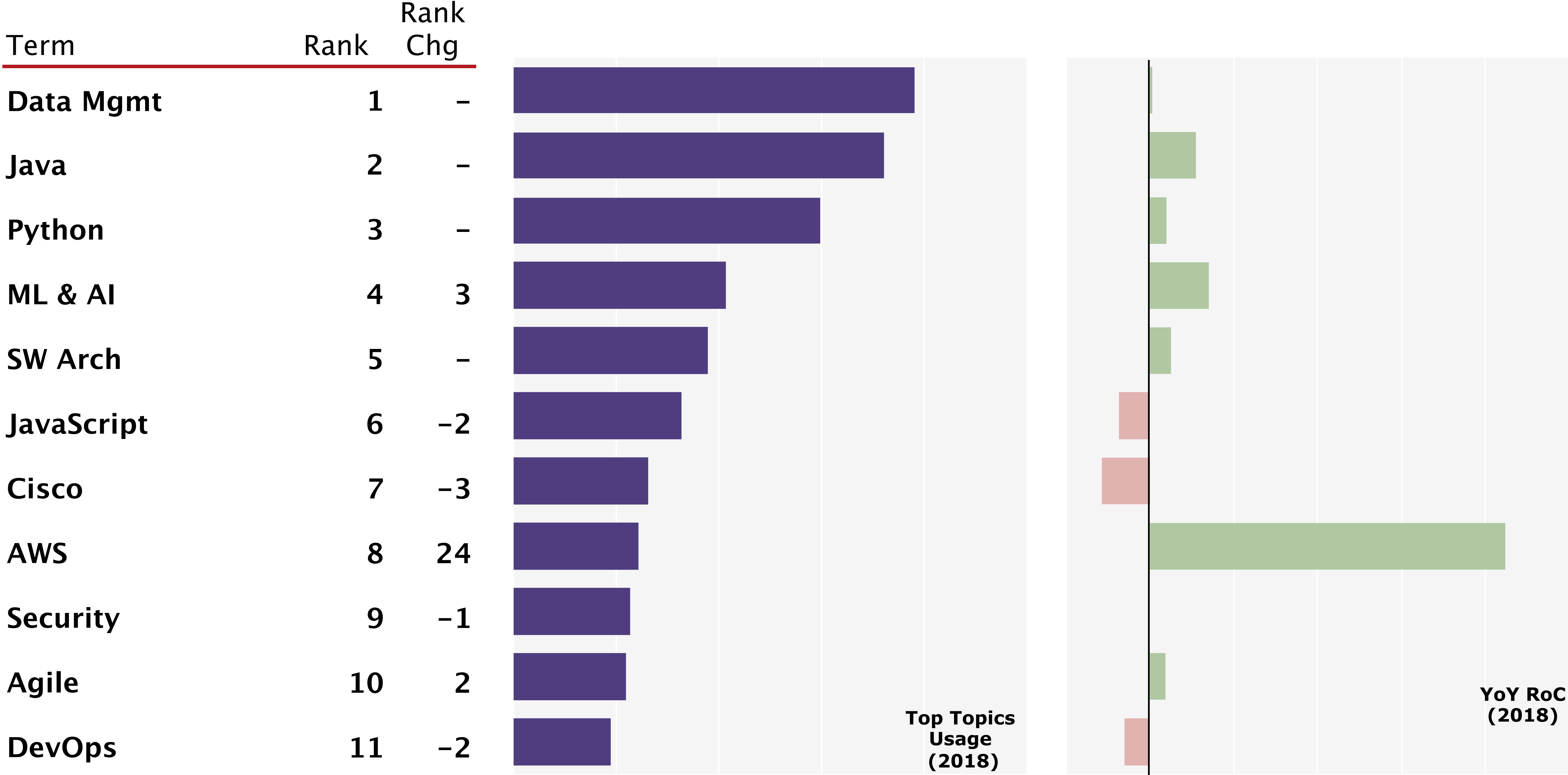
Machine Learning / AI / Data Sci



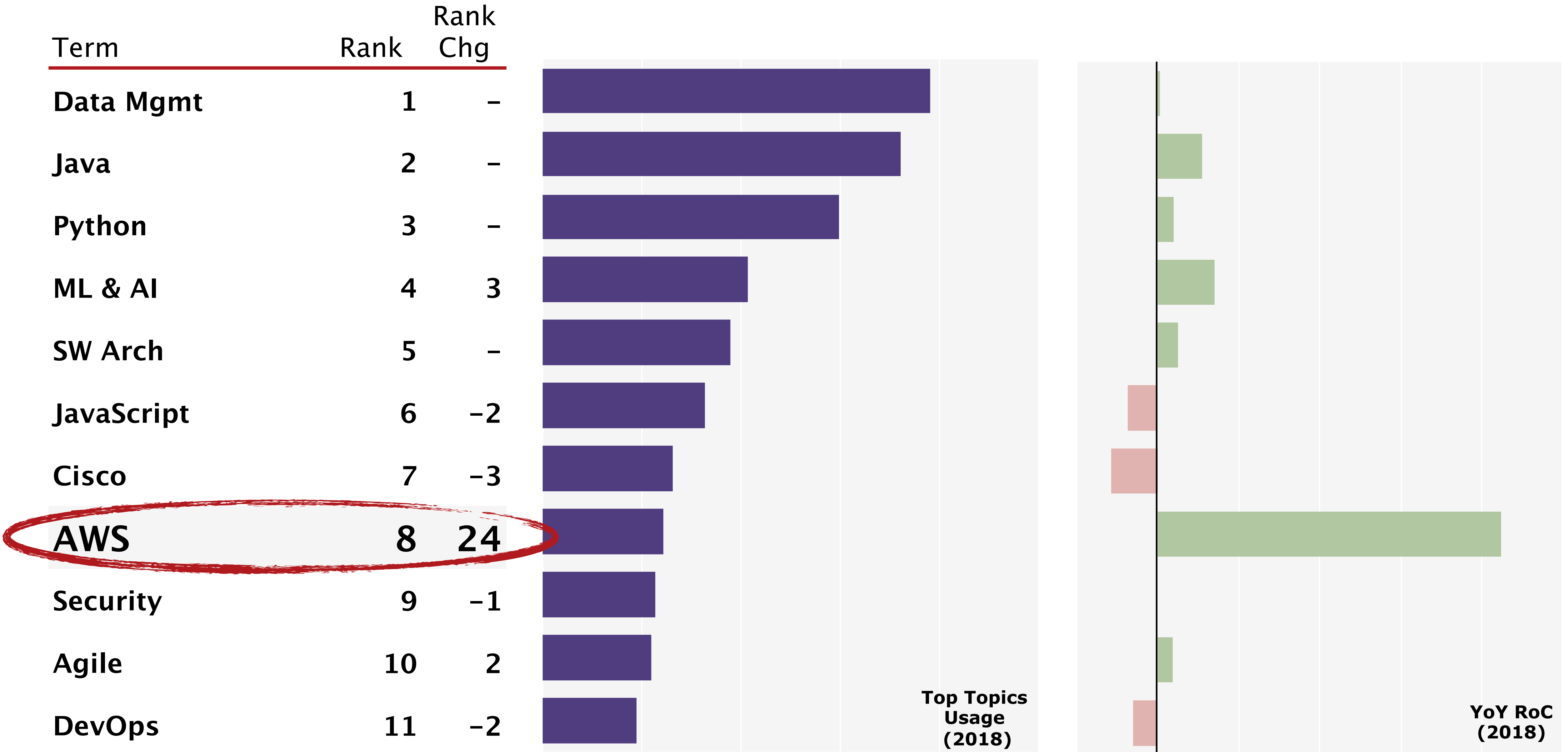
Usage

- Top Topics
- Languages
- Emerging Topics

Usage - Top Topics



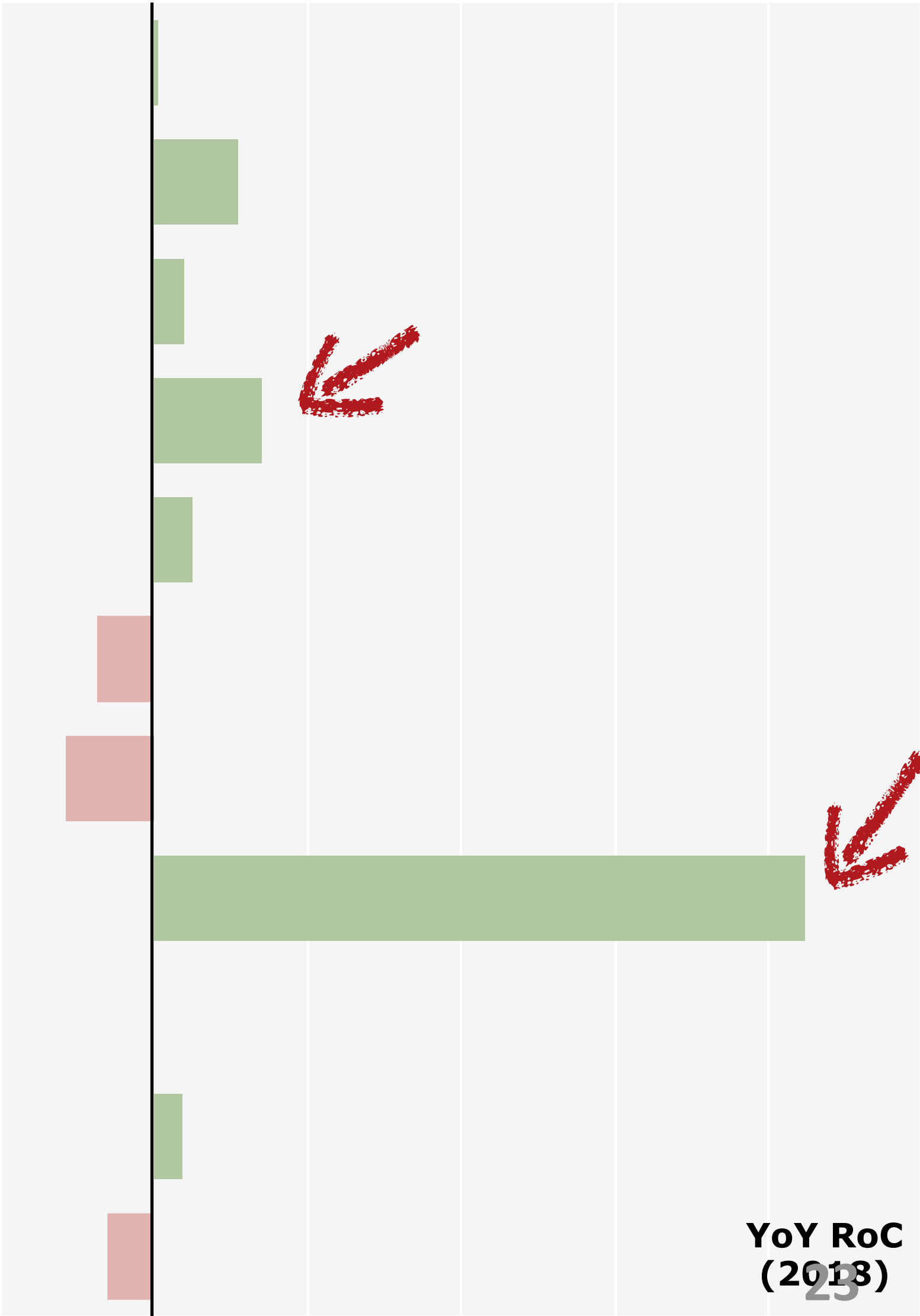
Usage - Top Topics



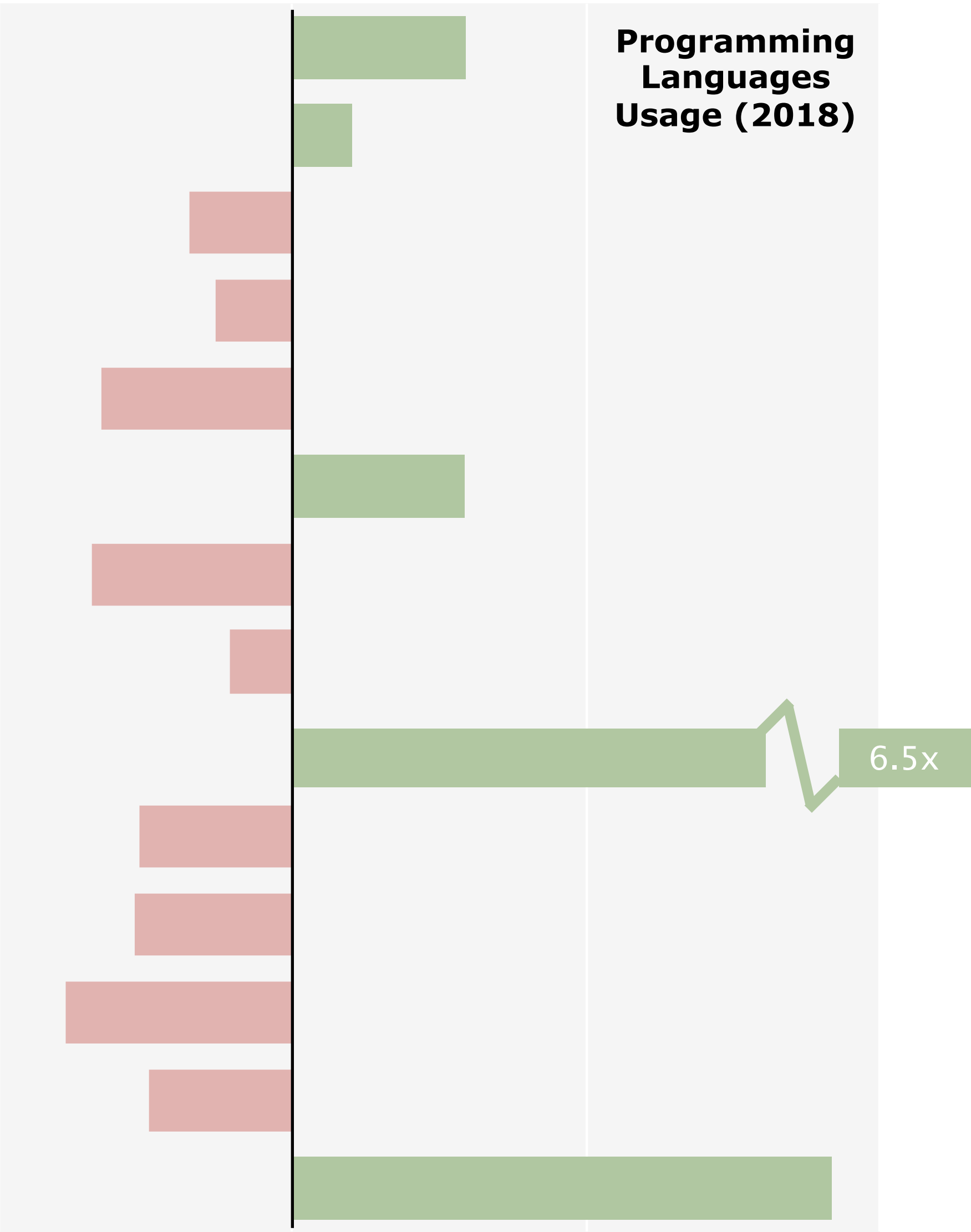
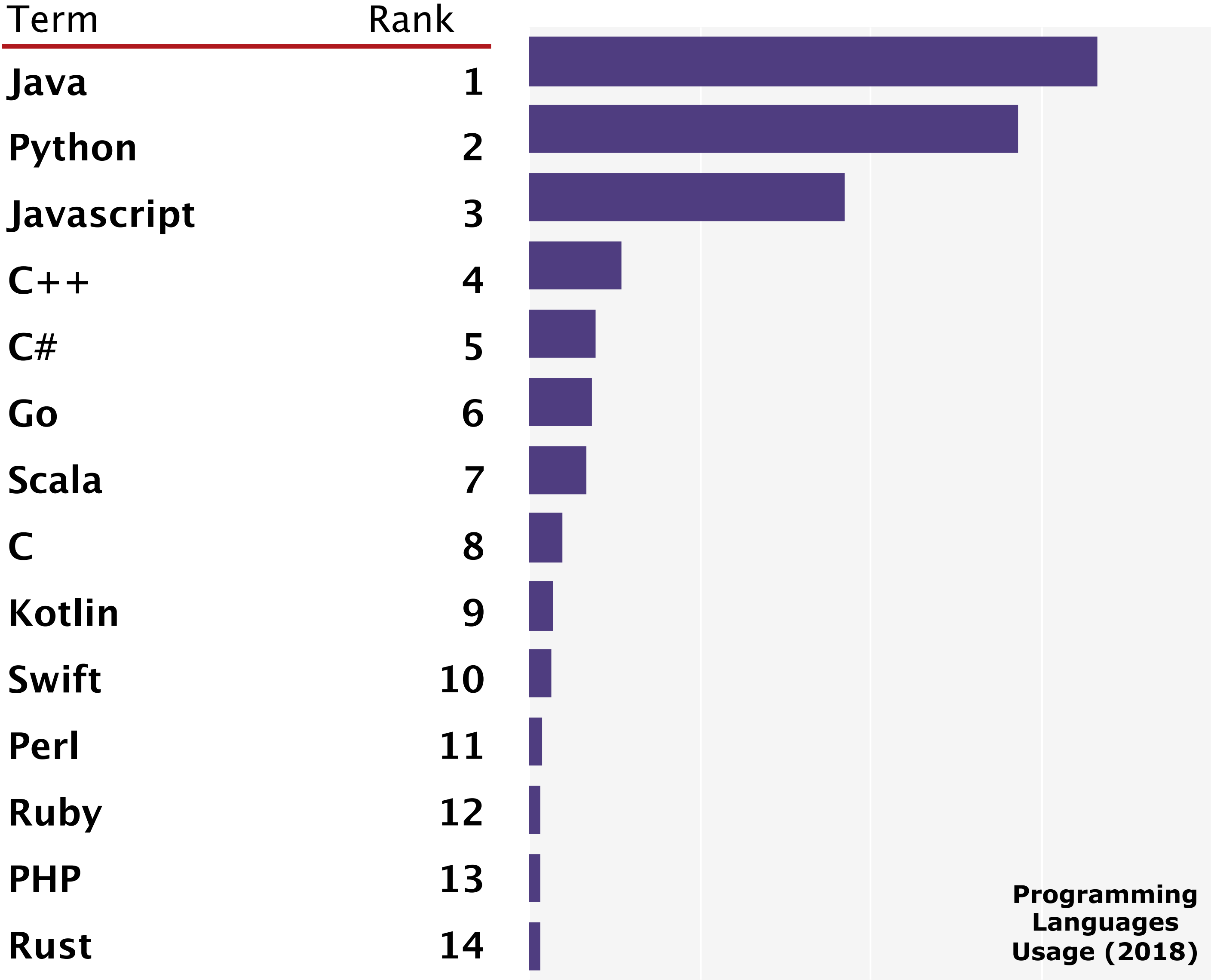
Usage - Top Topics

Term	Rank	Rank Chg	
Data Mgmt	1	-	
Java	2	-	
Python	3	-	
ML & AI	4	3	
SW Arch	5	-	
JavaScript	6	-2	
Cisco	7	-3	
AWS	8	24	
Security	9	-1	
Agile	10	2	
DevOps	11	-2	

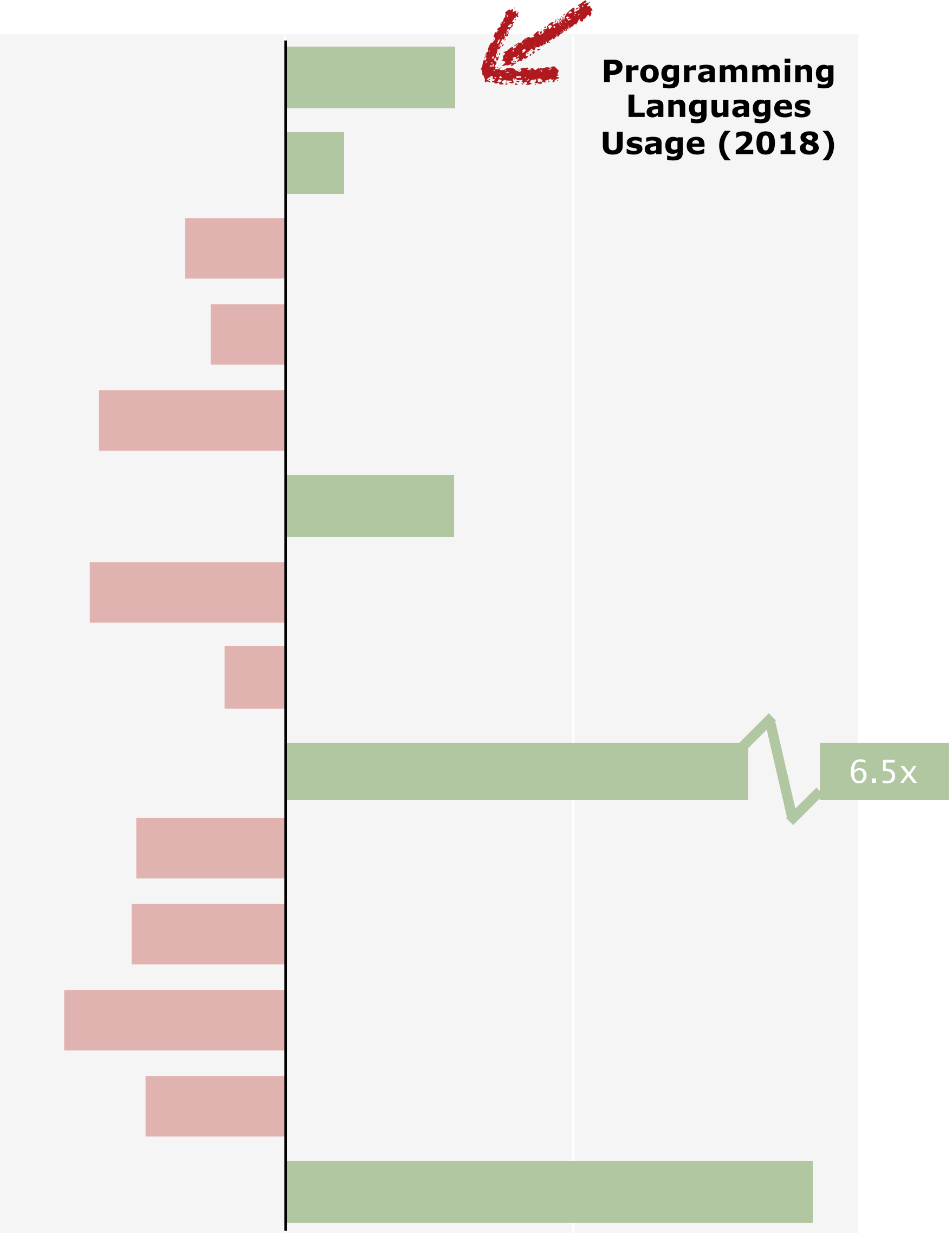
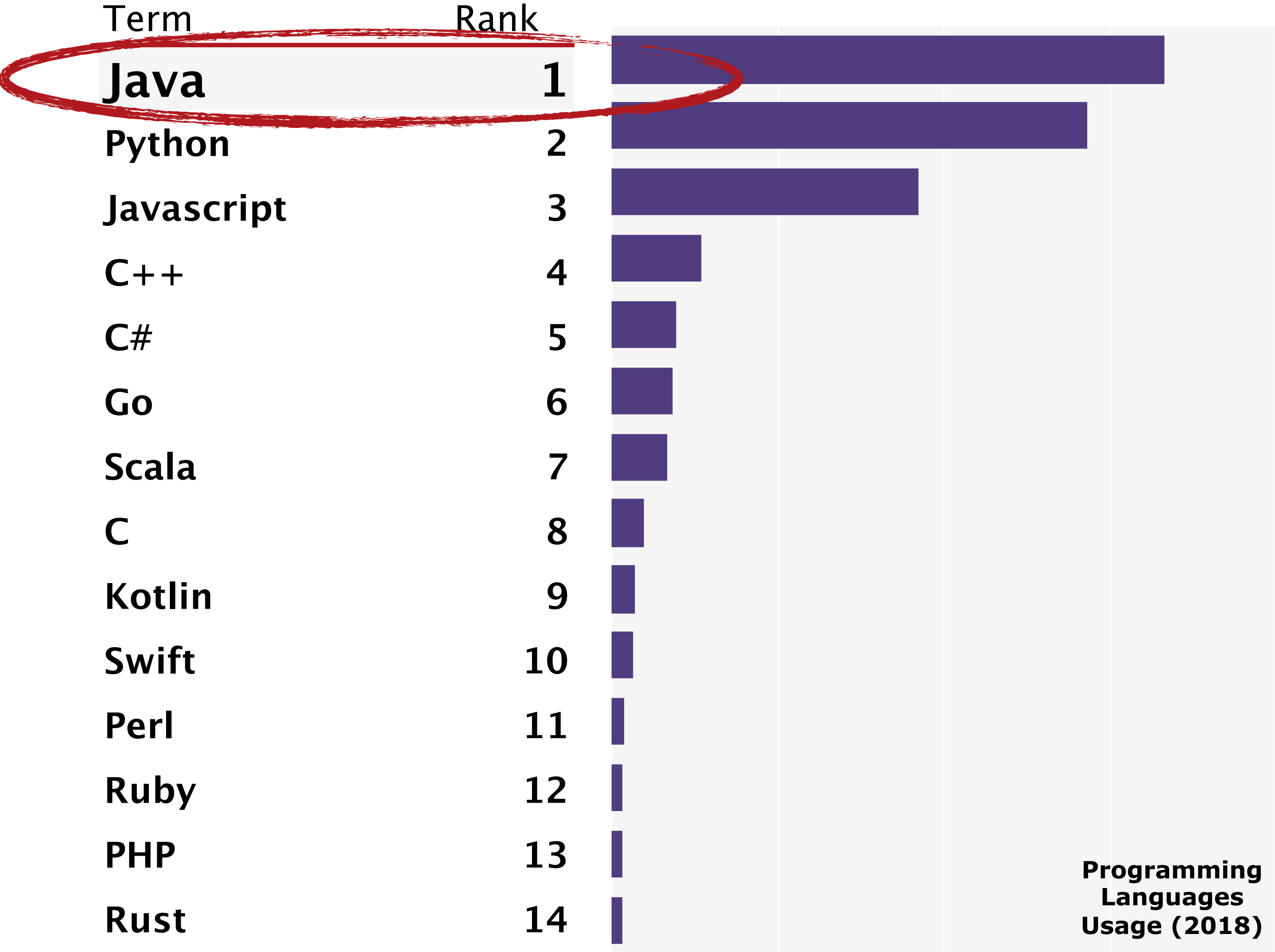
Top Topics Usage (2018)



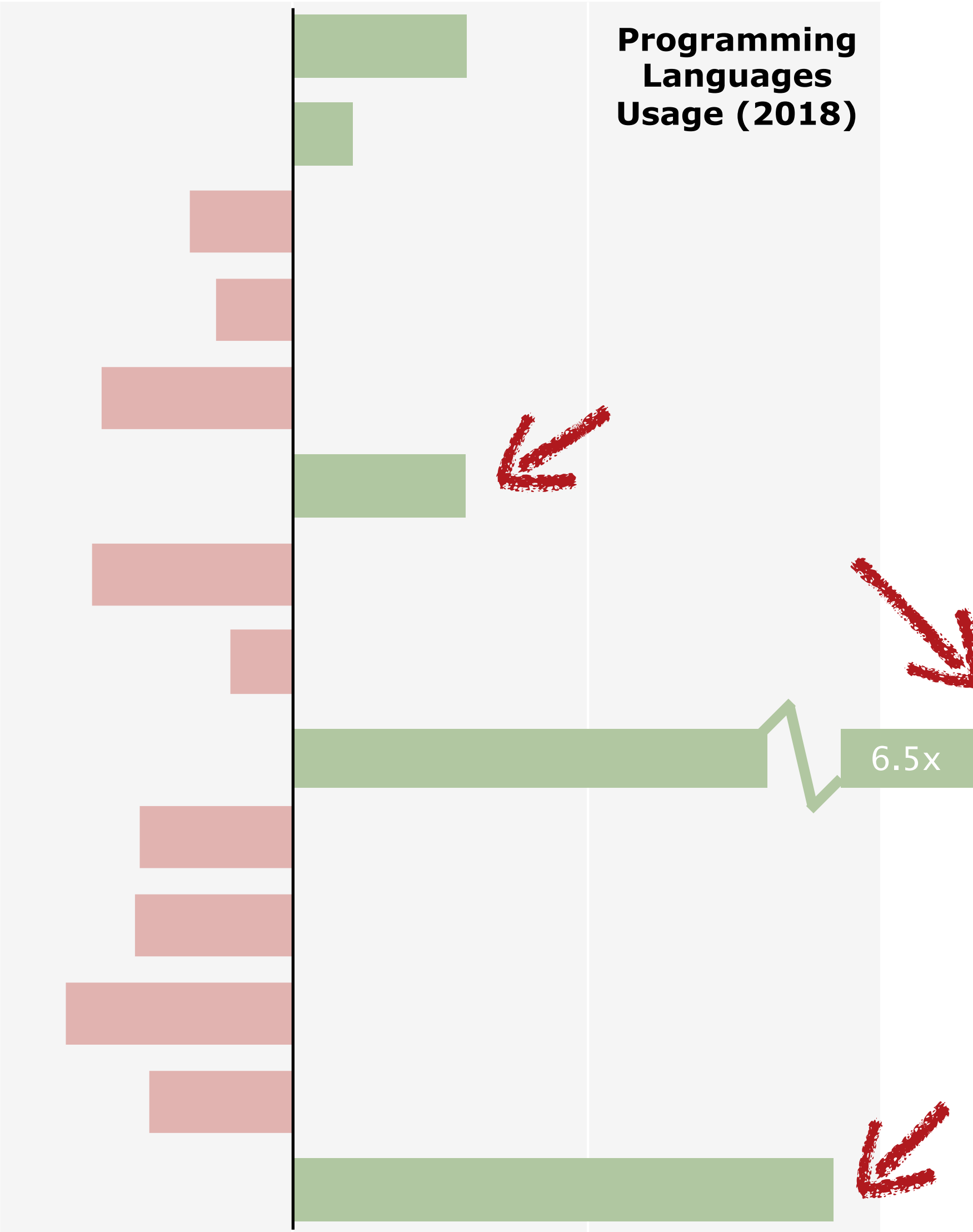
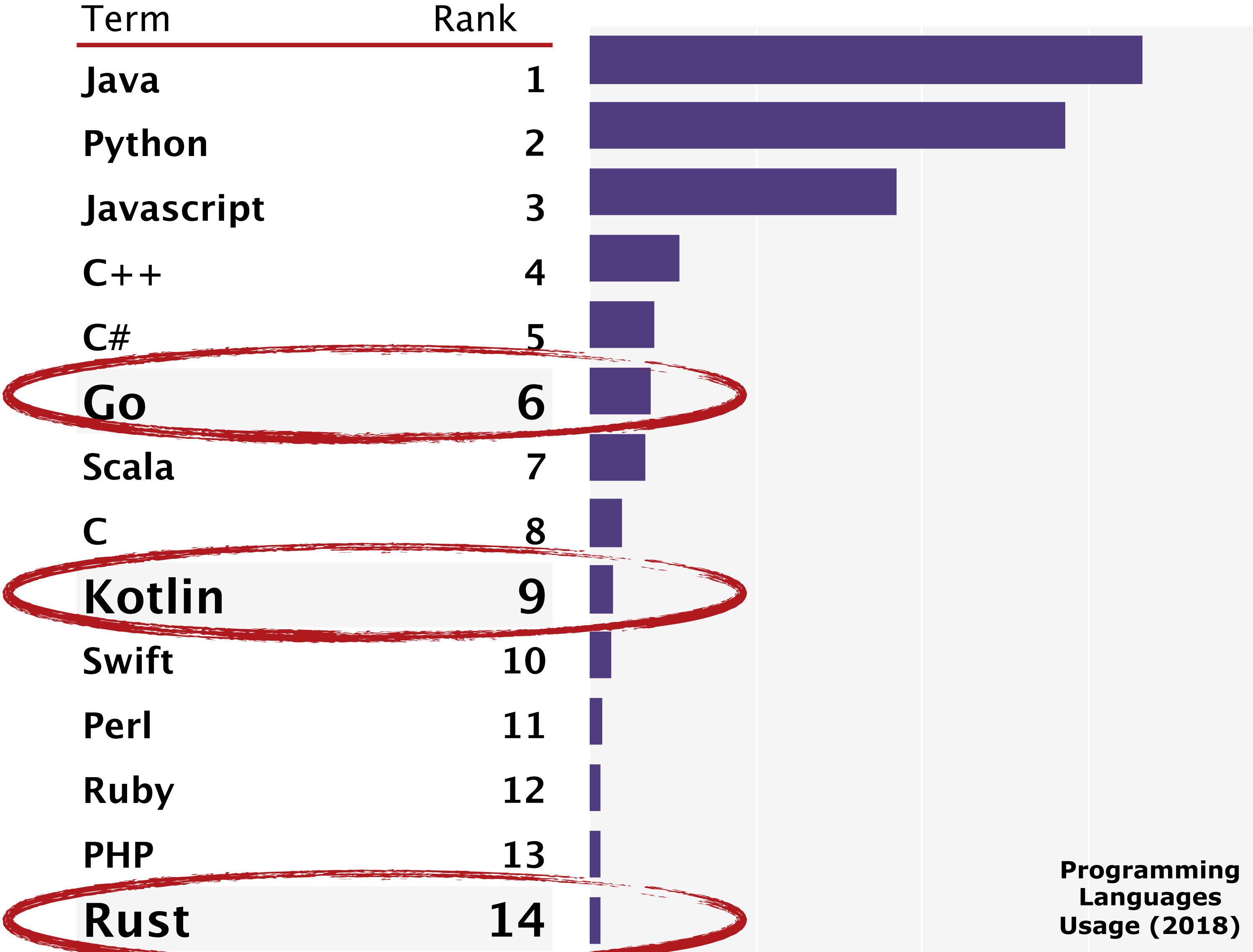
Usage - Programming Languages



Usage - Programming Languages



Usage - Programming Languages



Emerging

- Kubernetes
 - Up nearly 200%
- Blockchain
 - Up over 450%

Trends / Summary

- Open Source
- Languages
- ML/AI a major topic
- Cloud

- Kubernetes well up
 - Microservices / Next Architecture Hypothesis
- Blockchain

Questions? Comments?

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