



## Welcome

Hello world! Thank you for taking the 2018 Stack Overflow Developer Survey, the largest and most comprehensive survey of software developers (and anyone else who codes!) on Earth.

As in previous years, anonymized results of the survey will be made publicly available under the Open Database License. We encourage you to download and analyze the dataset yourself when it becomes available.

On that note, throughout the survey, certain answers you and your peers give will be treated as personally identifiable information, and therefore kept out of the anonymized results file. We'll call out each of those in the survey with a note saying "This information will be kept private."

There are five sections in this survey - the second through fourth sections will appear in random order.

1. Basic Information
2. Your Work, Education, and Career
3. Technology and Tech Culture
4. Stack Overflow Usage + Community Questions
5. Demographic Information

The survey should take about 30 minutes to complete. We encourage you to complete it in one sitting.

To start the survey, please click on the "next" button below.

Thanks again!

## Browser Meta Info

*This question will not be displayed to the recipient.*

Browser: **Firefox**

Version: **57.0**

Operating System: **Macintosh**

Screen Resolution: **3440x1440**

Flash Version: **28.0.0**

Java Support: **0**

User Agent: **Mozilla/5.0 (Macintosh; Intel Mac OS X 10.12; rv:57.0) Gecko/20100101 Firefox/57.0**

## Qualification

**This first section will focus on some basic information about who you are.**

Which of the following options best describes you today? Here, by "developer" we mean "someone who writes code."

- ☐ I am a developer by profession
- ☐ I am not primarily a developer, but I write code sometimes as part of my work
- ☐ I used to be a developer by profession, but no longer am
- ☐ I am a student who is learning to code
- ☐ None of these

Do you code as a hobby?

- ☐ Yes
- ☐ No

Do you contribute to open source projects?

- ☐ Yes
- ☐ No

## Location

In which country do you currently reside?

In which state or territory of the USA do you live? *This information will be kept private.*

In which part of the United Kingdom do you live?

In which federal state do you live? *This information will be kept private.*

In which state of Brazil do you live? *This information will be kept private.*

In which province or territory do you live? *This information will be kept private.*

In which department of France do you live? *This information will be kept private.*

In which state or union territory of India do you live? *This information will be kept private.*

In which state do you live? *This information will be kept private.*

In which province of Poland do you live? *This information will be kept private.*

In which city or town do you live? *This information will be kept private.*

### Education & Employment

Are you currently enrolled in a formal, degree-granting college or university program?

- ☐ Yes, full-time
- ☐ Yes, part-time
- ☐ No
- ☐ I prefer not to say

Which of the following best describes your current employment status?

- ☐ Employed full-time
- ☐ Employed part-time
- ☐ Independent contractor, freelancer, or self-employed
- ☐ Not employed, but looking for work
- ☐ Not employed, and not looking for work
- ☐ Retired
- ☐ I prefer not to say

Which of the following best describes the highest level of formal education that you've completed?

- ☐ I never completed any formal education
- ☐ Primary/elementary school
- ☐ Secondary school (e.g. American high school, German Realschule or Gymnasium, etc.)
- ☐ Some college/university study without earning a degree
- ☐ Associate degree
- ☐ Bachelor's degree (BA, BS, B.Eng., etc.)
- ☐ Master's degree (MA, MS, M.Eng., MBA, etc.)
- ☐ Professional degree (JD, MD, etc.)
- ☐ Other doctoral degree (Ph.D, Ed.D., etc.)
- ☐ Something else:

## Education & Employment 2

#{e://Field/GradLevelAppend}

- ☐ Computer science, computer engineering, or software engineering
- ☐ Web development or web design
- ☐ Information systems, information technology, or system administration
- ☐ Mathematics or statistics
- ☐ Another engineering discipline (ex. civil, electrical, mechanical)
- ☐ A business discipline (ex. accounting, finance, marketing)
- ☐ A health science (ex. nursing, pharmacy, radiology)
- ☐ A humanities discipline (ex. literature, history, philosophy)
- ☐ A natural science (ex. biology, chemistry, physics)
- ☐ A social science (ex. anthropology, psychology, political science)
- ☐ Fine arts or performing arts (ex. graphic design, music, studio art)
- ☐ I never declared a major
- ☐ Something else:

Which of the following best describes the industry you work in? If you or your employer are involved in several industries, please choose the one most relevant to the products or services you work on. *This information will be kept private.*

- ☐ Cloud-based solutions or services
- ☐ Consulting
- ☐ Data and analytics
- ☐ Financial technology or services
- ☐ Healthcare technology or services
- ☐ Information technology
- ☐ Media, advertising, publishing, or entertainment
- ☐ Retail or eCommerce
- ☐ Software as a service (SaaS) development
- ☐ Web development or design
- ☐ Other software development
- ☐ Other industry not listed here



Approximately how many people are employed by the company or organization you work for?

- ☐ Fewer than 10 employees
- ☐ 10 to 19 employees
- ☐ 20 to 99 employees
- ☐ 100 to 499 employees
- ☐ 500 to 999 employees
- ☐ 1,000 to 4,999 employees
- ☐ 5,000 to 9,999 employees
- ☐ 10,000 or more employees
- ☐ I don't know

Which of the following describe you? Please select all that apply.

- ☐ Back-end developer
- ☐ C-suite executive (CEO, CTO, etc.)
- ☐ Data or business analyst
- ☐ Data scientist or machine learning specialist
- ☐ Database administrator
- ☐ Designer
- ☐ Desktop or enterprise applications developer
- ☐ DevOps specialist
- ☐ Educator or academic researcher
- ☐ Embedded applications or devices developer
- ☐ Engineering manager
- ☐ Front-end developer
- ☐ Full-stack developer
- ☐ Game or graphics developer
- ☐ Marketing or sales professional
- ☐ Mobile developer
- ☐ Product manager
- ☐ QA or test developer
- ☐ Student
- ☐ System administrator
- ☐ None of the above

Including any education, for how many years have you been coding?

- ☐ 0-2 years
- ☐ 3-5 years
- ☐ 6-8 years
- ☐ 9-11 years
- ☐ 12-14 years
- ☐ 15-17 years
- ☐ 18-20 years
- ☐ 21-23 years
- ☐ 24-26 years
- ☐ 27-29 years
- ☐ 30 or more years

## Career1

**This section will focus on your work, your education, and your career.**

For how many years have you coded professionally (as a part of your work)?

- ☐ 0-2 years
- ☐ 3-5 years
- ☐ 6-8 years
- ☐ 9-11 years
- ☐ 12-14 years
- ☐ 15-17 years
- ☐ 18-20 years
- ☐ 21-23 years
- ☐ 24-26 years
- ☐ 27-29 years
- ☐ 30 or more years

## Career2

How satisfied are you with your current job? If you work more than one job, please answer regarding the one you spend the most hours on.

- ☐ Extremely dissatisfied
- ☐ Moderately dissatisfied
- ☐ Slightly dissatisfied
- ☐ Neither satisfied nor dissatisfied
- ☐ Slightly satisfied
- ☐ Moderately satisfied
- ☐ Extremely satisfied

Overall, how satisfied are you with your career thus far?

- ☐ Extremely dissatisfied
- ☐ Moderately dissatisfied
- ☐ Slightly dissatisfied
- ☐ Neither satisfied nor dissatisfied
- ☐ Slightly satisfied
- ☐ Moderately satisfied
- ☐ Extremely satisfied

Which of the following best describes what you hope to be doing in five years?

- ☐ Doing the same work
- ☐ Working as a founder or co-founder of my own company
- ☐ Working in a different or more specialized technical role than the one I'm in now
- ☐ Working in a career completely unrelated to software development
- ☐ Working as an engineering manager or other functional manager
- ☐ Working as a product manager or project manager
- ☐ Retirement

**Career3**

Which of the following best describes your current job-seeking status?

- ☐ I am actively looking for a job
- ☐ I'm not actively looking, but I am open to new opportunities
- ☐ I am not interested in new job opportunities

When was the last time that you took a job with a new employer?

- ☐ Less than a year ago
- ☐ Between 1 and 2 years ago
- ☐ Between 2 and 4 years ago
- ☐ More than 4 years ago
- ☐ I've never had a job

#### Career4

Imagine that you are assessing a potential job opportunity. Please rank the following aspects of the job opportunity in order of importance (by dragging the choices up and down), where 1 is the most important and 10 is the least important.

The diversity of the company or organization

The office environment or company culture

The languages, frameworks, and other technologies I'd be working with

The industry that I'd be working in

The specific department or team I'd be working on

The financial performance or funding status of the company or organization

How widely used or impactful the product or service I'd be working on is

Opportunities for professional development

The opportunity to work from home/remotely

The compensation and benefits offered

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Now, imagine you are assessing a job's benefits package. Please rank the following aspects of a job's benefits package from most to least important to you (by dragging the choices up and down), where 1 is most important and 11 is least important.

Salary and/or bonuses

Stock options or shares

Conference or education budget

Transportation benefit (ex. company-provided transportation, public transit allowance)

Childcare benefit

Health insurance

Fitness or wellness benefit (ex. gym membership, nutritionist)

Company-provided meals or snacks

Retirement or pension savings matching

Parental leave

Computer/office equipment allowance

Is there any other benefit that you find important when assessing a job's benefits package that you would like to see included in future surveys?

## Career5

Imagine that a company wanted to contact you about a job that is a good fit for you. Please rank your preference in how you are contacted (by dragging the choices up and down), where 1 is the most preferred and 5 is the least preferred.



Email to my private address

Message on a social media site

Email to my work address

Message on a job site

Telephone call

Imagine that same company decided to contact you through email. Please rank the following items by how important it is to include them in the message (by dragging the choices up and down), where 1 is the most important and 7 is the least important.

Details on the company's product development process

Details on the company I'd be working for

Specifics of why they think I'd be a good fit for the role (ex. my prior work history, projects on GitHub)

Details on the specific department I'd be working for or product I'd be working on

Information on the company's hiring process

An estimate of the compensation range

Details of which technologies I'd be working with

Think back to the last time you updated your resumé, CV, or an online profile on a job site. What is the main reason that you did so?

- ☐ My job status or other personal status changed
- ☐ A recruiter contacted me
- ☐ I received bad news about the future of my company or department
- ☐ I had a negative experience or interaction at work
- ☐ I received negative feedback on my job performance
- ☐ A friend told me about a job opportunity
- ☐ I saw an employer's advertisement
- ☐ I did not receive an expected change in compensation

### NegativeJobSearch

In your opinion, what is the most **annoying** part of searching for a new job?

In your opinion, what is the most **exhausting** part of searching for a new job?

### PositiveJobSearch

In your opinion, what is the most **interesting** part of searching for a new

job?

In your opinion, what is the most **exciting** part of searching for a new job?

**Salary**

Which currency do you use day-to-day? If your answer is complicated, please pick the one you're most comfortable estimating in.

- ☐ U.S. dollars (\$)
- ☐ Euros (€)
- ☐ British pounds sterling (£)
- ☐ Japanese yen (¥)
- ☐ Chinese yuan renminbi (¥)
- ☐ Brazilian reais (R\$)
- ☐ Indian rupees (₹)
- ☐ Mexican pesos (MXN\$)
- ☐ South African rands (R)
- ☐ Swedish kroner (SEK)
- ☐ Australian dollars (A\$)
- ☐ Canadian dollars (C\$)
- ☐ Singapore dollars (S\$)
- ☐ Russian rubles (₽)
- ☐ Swiss francs
- ☐ Polish złoty (zł)
- ☐ Norwegian krone (kr)
- ☐ Danish krone (kr)
- ☐ Bitcoin (btc)
- ☐ Some other currency:

What is your current gross salary (before taxes and deductions), in  $\text{\$}$ {q://QID50/ChoiceGroup/SelectedChoicesTextEntry}? Please enter a whole number in the box below, without any punctuation. If you are paid hourly, please estimate an equivalent weekly, monthly, or yearly salary. If you prefer not to answer, please leave the box empty.

Is that salary weekly, monthly, or yearly?

- ☐ Weekly
- ☐ Monthly
- ☐ Yearly

### CurrentCompanyDetails

Which of the following tools do you use to communicate, coordinate, or share knowledge with your coworkers? Please select all that apply.

- ☐ Confluence
- ☐ Facebook
- ☐ Google Hangouts/Chat
- ☐ HipChat
- ☐ Jira
- ☐ Office / productivity suite (Microsoft Office, Google Suite, etc.)
- ☐ Slack
- ☐ Stack Overflow Enterprise
- ☐ Trello
- ☐ Other chat system (IRC, proprietary software, etc.)
- ☐ Other wiki tool (Github, Google Sites, proprietary software, etc.)
- ☐ Something else:

Suppose a new developer with four years of experience, including direct experience working with your company's main technical stack, joined your team tomorrow. All other things being equal, how long would you expect it to take before they were fully productive and contributing at a typical level to your main code base?

- ☐ Less than a month
- ☐ One to three months
- ☐ Three to six months
- ☐ Six to nine months
- ☐ Nine months to a year
- ☐ More than a year
- ☐ Don't know/not sure

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## Education

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Which of the following types of non-degree education have you used or participated in? Please select all that apply.

- ☐ Participated in a hackathon
- ☐ Participated in a full-time developer training program or bootcamp
- ☐ Taught yourself a new language, framework, or tool without taking a formal course
- ☐ Received on-the-job training in software development
- ☐ Taken an online course in programming or software development (e.g. a MOOC)
- ☐ Taken a part-time in-person course in programming or software development
- ☐ Completed an industry certification program (e.g. MCPD)
- ☐ Participated in online coding competitions (e.g. HackerRank, CodeChef, TopCoder)
- ☐ Contributed to open source software
- ☐ None of these

You indicated that you had taught yourself a programming technology without taking a course. What resources did you use to do that? If you've done it more than once, please think about the most recent time you've done so. Please select all that apply.

- ☐ The official documentation and/or standards for the technology
- ☐ Questions & answers on Stack Overflow
- ☐ Pre-scheduled tutoring or mentoring sessions with a friend or colleague
- ☐ The technology's online help system
- ☐ A book or e-book from O'Reilly, Apress, or a similar publisher
- ☐ Tapping your network of friends, family, and peers versed in the technology
- ☐ Online developer communities other than Stack Overflow (ex. forums, listservs, IRC channels, etc.)
- ☐ Internal Wikis, chat rooms, or documentation set up by my company for employees
- ☐ A college/university computer science or software engineering book
- ☐ Something else:



You indicated previously that you went through a developer training program or bootcamp. How long did it take you to get a full-time job as a developer after graduating?

- ☐ I already had a full-time job as a developer when I began the program
- ☐ Immediately after graduating
- ☐ Less than a month
- ☐ One to three months
- ☐ Four to six months
- ☐ Six months to a year
- ☐ Longer than a year
- ☐ I haven't gotten a developer job

You indicated previously that you had participated in an online coding competition or hackathon. Which of the following best describe your reasons for doing so?

- ☐ To improve my knowledge of a specific programming language, framework, or other technology
- ☐ To improve my general technical skills or programming ability
- ☐ To help me find new job opportunities
- ☐ To build my professional network
- ☐ Because I find it enjoyable
- ☐ To improve my ability to work on a team with other programmers
- ☐ To win prizes or cash awards
- ☐ Some other reason:

**MetaMatrix**

To what extent do you agree or disagree with each of the following statements?

	Strongly disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly agree
I think of myself as competing with my peers	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I'm not as good at programming as most of my peers	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I feel a sense of kinship or connection to other developers	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

TechandTechCulture1

This section will focus on technology and tech culture.

Which of the following programming, scripting, and markup languages have you done extensive development work in over the past year, and which do you want to work in over the next year? (If you both worked with the language and want to continue to do so, please check both boxes in that row.)

	Worked with in past year	Want to work with next year
Assembly	<input type="checkbox"/>	<input type="checkbox"/>
C	<input type="checkbox"/>	<input type="checkbox"/>
C++	<input type="checkbox"/>	<input type="checkbox"/>
C#	<input type="checkbox"/>	<input type="checkbox"/>
CoffeeScript	<input type="checkbox"/>	<input type="checkbox"/>
Clojure	<input type="checkbox"/>	<input type="checkbox"/>
Erlang	<input type="checkbox"/>	<input type="checkbox"/>
F#	<input type="checkbox"/>	<input type="checkbox"/>
Go	<input type="checkbox"/>	<input type="checkbox"/>
Groovy	<input type="checkbox"/>	<input type="checkbox"/>
Hack	<input type="checkbox"/>	<input type="checkbox"/>
Haskell	<input type="checkbox"/>	<input type="checkbox"/>
Java	<input type="checkbox"/>	<input type="checkbox"/>
JavaScript	<input type="checkbox"/>	<input type="checkbox"/>
Julia	<input type="checkbox"/>	<input type="checkbox"/>
Lua	<input type="checkbox"/>	<input type="checkbox"/>
Matlab	<input type="checkbox"/>	<input type="checkbox"/>
Objective-C	<input type="checkbox"/>	<input type="checkbox"/>

Are there any languages you either used extensively, or want to use next year, that we should add to this list next year?

**TechandTechCulture2**

Which of the following database environments have you done extensive development work in over the past year, and which do you want to work in over the next year? (If you both worked with the database and want to continue to do so, please check both boxes in that row.)

	Worked with in past year	Want to work with next year
Cassandra	<input type="checkbox"/>	<input type="checkbox"/>
MongoDB	<input type="checkbox"/>	<input type="checkbox"/>
Redis	<input type="checkbox"/>	<input type="checkbox"/>
SQL Server	<input type="checkbox"/>	<input type="checkbox"/>
MySQL	<input type="checkbox"/>	<input type="checkbox"/>
PostgreSQL	<input type="checkbox"/>	<input type="checkbox"/>
SQLite	<input type="checkbox"/>	<input type="checkbox"/>
Oracle	<input type="checkbox"/>	<input type="checkbox"/>
MariaDB	<input type="checkbox"/>	<input type="checkbox"/>
IBM Db2	<input type="checkbox"/>	<input type="checkbox"/>
Amazon DynamoDB	<input type="checkbox"/>	<input type="checkbox"/>
Apache HBase	<input type="checkbox"/>	<input type="checkbox"/>
Apache Hive	<input type="checkbox"/>	<input type="checkbox"/>
Memcached	<input type="checkbox"/>	<input type="checkbox"/>
Amazon Redshift	<input type="checkbox"/>	<input type="checkbox"/>
Amazon RDS/Aurora	<input type="checkbox"/>	<input type="checkbox"/>
Google BigQuery	<input type="checkbox"/>	<input type="checkbox"/>
Microsoft Azure	<input type="checkbox"/>	<input type="checkbox"/>

Are there any database environments you either used extensively, or want to use next year, that we should add to this list next year?

**TechandTechCulture3**

Which of the following platforms have you done extensive development work for over the past year? (If you both developed for the platform and want to continue to do so, please check both boxes in that row.)

	Worked with in past year	Want to work with next year
Amazon Echo (i.e. Alexa)	<input type="checkbox"/>	<input type="checkbox"/>
Android	<input type="checkbox"/>	<input type="checkbox"/>
Apple Watch or Apple TV	<input type="checkbox"/>	<input type="checkbox"/>
Arduino	<input type="checkbox"/>	<input type="checkbox"/>
AWS	<input type="checkbox"/>	<input type="checkbox"/>
Azure	<input type="checkbox"/>	<input type="checkbox"/>
Drupal	<input type="checkbox"/>	<input type="checkbox"/>
ESP8266	<input type="checkbox"/>	<input type="checkbox"/>
Firebase	<input type="checkbox"/>	<input type="checkbox"/>
Gaming console (Playstation, XBox, Nintendo, etc.)	<input type="checkbox"/>	<input type="checkbox"/>
Google Cloud Platform/App Engine	<input type="checkbox"/>	<input type="checkbox"/>
Google Home	<input type="checkbox"/>	<input type="checkbox"/>
Heroku	<input type="checkbox"/>	<input type="checkbox"/>
IBM Cloud or Watson	<input type="checkbox"/>	<input type="checkbox"/>
iOS	<input type="checkbox"/>	<input type="checkbox"/>
Linux	<input type="checkbox"/>	<input type="checkbox"/>

Are there any platforms you either developed for extensively, or want to develop for next year, that we should add to this list next year?

**TechandTechCulture4**



Which of the following libraries, frameworks, and tools have you done extensive development work in over the past year, and which do you want to work in over the next year?

	Worked with in past year	Want to work with next year
Angular	<input type="checkbox"/>	<input type="checkbox"/>
.NET Core	<input type="checkbox"/>	<input type="checkbox"/>
Django	<input type="checkbox"/>	<input type="checkbox"/>
Hadoop	<input type="checkbox"/>	<input type="checkbox"/>
Node.js	<input type="checkbox"/>	<input type="checkbox"/>
React	<input type="checkbox"/>	<input type="checkbox"/>
Spark	<input type="checkbox"/>	<input type="checkbox"/>
Cordova	<input type="checkbox"/>	<input type="checkbox"/>
Xamarin	<input type="checkbox"/>	<input type="checkbox"/>
Firebase	<input type="checkbox"/>	<input type="checkbox"/>
Spring	<input type="checkbox"/>	<input type="checkbox"/>
TensorFlow	<input type="checkbox"/>	<input type="checkbox"/>
Torch (or PyTorch)	<input type="checkbox"/>	<input type="checkbox"/>

Are there any libraries, frameworks, or other tools you either used extensively, or want to use next year, that we should add to this list next year?

## TechandTechCulture5

Which development environment(s) do you use regularly? Please check all that apply.

- ☐ Android Studio
- ☐ Atom
- ☐ Coda
- ☐ Eclipse
- ☐ Emacs
- ☐ IntelliJ
- ☐ IPython / Jupyter
- ☐ Komodo
- ☐ Light Table
- ☐ NetBeans
- ☐ Notepad++
- ☐ PHPStorm
- ☐ PyCharm
- ☐ RStudio
- ☐ RubyMine
- ☐ Sublime Text
- ☐ TextMate
- ☐ Vim
- ☐ Visual Studio
- ☐ Visual Studio Code
- ☐ XCode
- ☐ Zend
- ☐ Other:

## TechandTechCulture6

Please describe the main coding workstation you use for your day-to-day work.

What is the primary operating system in which you work?

- ☐ Linux-based
- ☐ Windows
- ☐ MacOS
- ☐ BSD/Unix
- ☐ Other:

How many monitors are set up at your workstation?

- ☐ 1
- ☐ 2
- ☐ 3
- ☐ 4
- ☐ More than 4

## TechandTechCulture7

Which of the following methodologies do you have experience working in?

- ☐ Agile
- ☐ Evidence-based software engineering
- ☐ Extreme programming (XP)
- ☐ Formal standard such as ISO 9001 or IEEE 12207 (aka "waterfall" methodologies)
- ☐ Kanban
- ☐ Mob programming
- ☐ Lean
- ☐ Pair programming
- ☐ PRINCE2
- ☐ Scrum
- ☐ None of these

What version control systems do you use regularly? Please select all that apply.

- ☐ Zip file back-ups
- ☐ Git
- ☐ Mercurial
- ☐ Copying and pasting files to network shares
- ☐ Team Foundation Version Control
- ☐ Subversion
- ☐ I don't use version control
- ☐ Something else:

**FrequencyCodeCommitted**

Over the last year, how often have you checked-in or committed code?

- ☐ Multiple times per day
- ☐ Once a day
- ☐ A few times per week
- ☐ Weekly or a few times per month
- ☐ Less than once per month
- ☐ Never

### Ads1

Do you have ad-blocking software installed on any computers you use regularly?

- ☐ Yes
- ☐ No
- ☐ I'm not sure/I don't know

In the past month, have you disabled your ad blocker for any reason, even temporarily or for a specific website?

- ☐ Yes
- ☐ No
- ☐ I'm not sure/I can't remember

What are the reasons that you have disabled your ad blocker in the past month? Please select all that apply.

- ☐ I wanted to support the website I was visiting by viewing their ads
- ☐ The website I was visiting asked me to disable it
- ☐ The ad-blocking software was causing display issues on a website
- ☐ I wanted to view a specific advertisement
- ☐ The website I was visiting has interesting ads
- ☐ The website I was visiting forced me to disable it to access their content
- ☐ Another reason:

## Ads2

To what extent do you agree or disagree with the following statements:

	Strongly agree	Somewhat agree	Neither agree nor disagree	Somewhat disagree	Strongly disagree
I enjoy seeing online updates from companies that I like	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I fundamentally dislike the concept of advertising	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Online advertising can be valuable when it is relevant to me	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

### Ads3

Which of the following actions have you taken in the past month? Please select all that apply.

- ☐ Clicked on an online advertisement
- ☐ Saw an online advertisement and then researched it (without clicking on the ad)
- ☐ Stopped going to a website because of their advertising
- ☐ Paid to access a website advertisement-free

Please rank the following advertising qualities in order of their importance to you (by dragging the choices up and down), where 1 is the most important, and 7 is the least important.

The advertisement provides useful information

The advertisement offers something of value, like a free trial

The advertisement avoids fluffy or vague language

The advertisement is honest about its goals

The advertisement is from a company that I like

The advertisement seems trustworthy

The advertisement is relevant to me

### AI1

What do you think is the most dangerous aspect of increasingly advanced AI technology?

- ☐ Artificial intelligence surpassing human intelligence ("the singularity")
- ☐ Algorithms making important decisions
- ☐ Increasing automation of jobs
- ☐ Evolving definitions of "fairness" in algorithmic versus human decisions
- ☐ Something else:

What do you think is the most exciting aspect of increasingly advanced AI technology?

- ☐ Evolving definitions of "fairness" in algorithmic versus human decisions
- ☐ Algorithms making important decisions
- ☐ Increasing automation of jobs
- ☐ Artificial intelligence surpassing human intelligence ("the singularity")
- ☐ Something else:

**AI2**



Whose responsibility is it, primarily, to consider the ramifications of increasingly advanced AI technology?

- ☐ A governmental or other regulatory body
- ☐ Prominent industry leaders
- ☐ The developers or the people creating the AI
- ☐ Nobody
- ☐ Someone else:

Overall, what's your take on the future of artificial intelligence?

- ☐ I'm worried about the dangers more than I'm excited about the possibilities.
- ☐ I'm excited about the possibilities more than worried about the dangers.
- ☐ I don't care about it, or I haven't thought about it.

## Ethics1

Imagine that you were asked to write code for a purpose or product that you consider extremely unethical. Do you write the code anyway?

- ☐ Yes
- ☐ No
- ☐ Depends on what it is

Do you report or otherwise call out the unethical code in question?

- ☐ Yes, and publicly
- ☐ Yes, but only within the company
- ☐ No
- ☐ Depends on what it is

## Ethics2

Who do you believe is ultimately most responsible for code that accomplishes something unethical?

- ☐ Upper management at the company/organization
- ☐ The developer who wrote it
- ☐ The person who came up with the idea
- ☐ Someone else:

Do you believe that you have an obligation to consider the ethical implications of the code that you write?

- ☐ Yes
- ☐ No
- ☐ Unsure / I don't know

Feel free to expand on your answer:

## Stack1

**This section will focus on Stack Overflow usage and community questions.**

How likely is it that you would recommend Stack Overflow overall to a friend or colleague? Where 0 is not likely at all and 10 is very likely.

0 (Not Likely)	1	2	3	4	5	6	7	8	9	10 (Very Likely)
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

How frequently would you say you visit Stack Overflow?

- ☐ I have never visited Stack Overflow (before today)
- ☐ Less than once per month or monthly
- ☐ A few times per month or weekly
- ☐ A few times per week
- ☐ Daily or almost daily
- ☐ Multiple times per day

## Stack2

Do you have a Stack Overflow account?

- ☐ Yes
- ☐ No
- ☐ I'm not sure / I can't remember

### Stack3

How frequently would you say you participate in Q&A on Stack Overflow?  
By participate we mean ask, answer, vote for, or comment on questions.

- ☐ I have never participated in Q&A on Stack Overflow
- ☐ Less than once per month or monthly
- ☐ A few times per month or weekly
- ☐ A few times per week
- ☐ Daily or almost daily
- ☐ Multiple times per day

Have you ever used or visited Stack Overflow Jobs?

- ☐ No, I didn't know that Stack Overflow had a jobs board
- ☐ No, I knew that Stack Overflow had a jobs board but have never used or visited it
- ☐ Yes

Do you have an up-to-date Developer Story on Stack Overflow?

- ☐ No, and I don't know what that is
- ☐ No, I know what it is but I don't have one
- ☐ No, I have one but it's out of date
- ☐ Yes

#### Stack4

How likely is it that you would recommend Stack Overflow Jobs to a friend or colleague? Where 0 is not likely at all and 10 is very likely.

0 (Not Likely)	1	2	3	4	5	6	7	8	9	10 (Very Likely)
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

#### Stack5

Do you consider yourself a member of the Stack Overflow community?

- ☐ Yes
- ☐ No
- ☐ I'm not sure

#### SOCCommunityDescribe

How would you describe the Stack Overflow community, as a whole?

### **SONegativeDescribe**

In your opinion, what is the most annoying thing about Stack Overflow?

In your opinion, what is the worst thing about Stack Overflow?

### **SOPositiveDescribe**

In your opinion, what is the best thing about Stack Overflow?

In your opinion, what is the most exciting thing about Stack Overflow?

### **SOChange1ThingDescribe**

If you could change anything about Stack Overflow, what would it be?

### MetaQuestions

**The following 7 questions were voted on by the Stack Overflow community as being the most interesting additional questions for us to ask.**

Please rate your interest in participating in each of the following hypothetical tools on Stack Overflow, where 1 is not at all interested and 5 is extremely interested.

	Not at all interested	A little bit interested	Somewhat interested	Very interested	Extremely interested
A peer mentoring system	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
A private area for people new to programming	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
A programming-oriented blog platform	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
An employer or job review system	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
An area for Q&A related to career growth	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>



On days when you work, what time do you typically wake up?

- ☐ Before 5:00 AM
- ☐ Between 5:00 - 6:00 AM
- ☐ Between 6:01 - 7:00 AM
- ☐ Between 7:01 - 8:00 AM
- ☐ Between 8:01 - 9:00 AM
- ☐ Between 9:01 - 10:00 AM
- ☐ Between 10:01 - 11:00 AM
- ☐ Between 11:01 AM - 12:00 PM
- ☐ After 12:01 PM
- ☐ I do not have a set schedule
- ☐ I work night shifts

On a typical day, how much time do you spend on a desktop or laptop computer?

- ☐ Less than 1 hour
- ☐ 1 - 4 hours
- ☐ 5 - 8 hours
- ☐ 9 - 12 hours
- ☐ Over 12 hours

On a typical day, how much time do you spend outside?

- ☐ Less than 30 minutes
- ☐ 30 - 59 minutes
- ☐ 1 - 2 hours
- ☐ 3 - 4 hours
- ☐ Over 4 hours

In a typical week, how many times do you skip a meal in order to be more productive?

- ☐ Never
- ☐ 1 - 2 times per week
- ☐ 3 - 4 times per week
- ☐ Daily or almost every day

What ergonomic furniture or devices do you use on a regular basis? Please select all that apply.

- ☐ Standing desk
- ☐ Fatigue-relieving floor mat
- ☐ Ergonomic keyboard or mouse
- ☐ Wrist/hand supports or braces
- ☐ Something else:

In a typical week, how many times do you exercise?

- ☐ I don't typically exercise
- ☐ 1 - 2 times per week
- ☐ 3 - 4 times per week
- ☐ Daily or almost every day

## Personal1

**We're almost done! The next set of questions will ask about you as a person. All questions in this section are optional. As a reminder, all reporting of the survey responses will be anonymized.**

Which of the following do you currently identify as? Please select all that apply. If you prefer not to answer, you may leave this question blank.

- ☐ Female
- ☐ Male
- ☐ Transgender
- ☐ Non-binary, genderqueer, or gender non-conforming
- ☐ Or, in your own words:

Which of the following do you currently identify as? Please select all that apply. If you prefer not to answer, you may leave this question blank.

☐ Straight or heterosexual

☐ Asexual

☐ Gay or Lesbian

☐ Bisexual or Queer

☐ Or, in your own words:

What is the highest level of education received by either of your parents? If you prefer not to answer, you may leave this question blank.

☐ They never completed any formal education

☐ Primary/elementary school

☐ Secondary school (e.g. American high school, German Realschule or Gymnasium, etc.)

☐ Some college/university study without earning a degree

☐ Associate degree

☐ Bachelor's degree (BA, BS, B.Eng., etc.)

☐ Master's degree (MA, MS, M.Eng., MBA, etc.)

☐ Professional degree (JD, MD, etc.)

☐ Other doctoral degree (Ph.D, Ed.D., etc.)

☐ Something else

Which of the following describe you, if any? This information will be kept private. If you prefer not to answer, you may leave this question blank.

- ☐ I am blind / have difficulty seeing
- ☐ I am deaf / have difficulty hearing
- ☐ I am unable to / find it difficult to type
- ☐ I am unable to / find it difficult to walk and/or stand without assistance
- ☐ I prefer not to answer
- ☐ None of the above
- ☐ Or, in your own words:

Which of the following describe you, if any? This information will be kept private. If you prefer not to answer, you may leave this question blank.

- ☐ I have a concentration and/or memory disorder
- ☐ I have a mood or emotional disorder (ex. depression, bipolar disorder)
- ☐ I have an anxiety disorder
- ☐ I identify as autistic / a person with autism
- ☐ I prefer not to answer
- ☐ None of the above
- ☐ Or, in your own words:

Which of the following do you identify as? Please check all that apply. If you prefer not to answer, you may leave this question blank.

- ☐ Black or of African descent
- ☐ East Asian
- ☐ Hispanic or Latino/Latina
- ☐ Middle Eastern
- ☐ Native American, Pacific Islander, or Indigenous Australian
- ☐ South Asian
- ☐ White or of European descent
- ☐ I don't know
- ☐ I prefer not to answer
- ☐ Or, in your own words:

What is your age? If you prefer not to answer, you may leave this question blank.

- ☐ Under 18 years old
- ☐ 18 - 24 years old
- ☐ 25 - 34 years old
- ☐ 35 - 44 years old
- ☐ 45 - 54 years old
- ☐ 55 - 64 years old
- ☐ 65 years or older
- ☐ I prefer not to answer

Do you have any children or other dependents that you care for? If you prefer not to answer, you may leave this question blank.

- ☐ Yes
- ☐ No
- ☐ I prefer not to answer

What do you do for childcare or dependent care while you are working? If you prefer not to answer, you may leave this question blank.

Are you currently serving or have you ever served in the U.S. Military?

- ☐ Yes
- ☐ No
- ☐ I prefer not to answer

## Survey1

**Thank you! We just have a few more questions about the survey itself so that we can improve it in future years.**

How do you feel about the length of the survey that you just completed?

- ☐ The survey was too short
- ☐ The survey was an appropriate length
- ☐ The survey was too long

How easy or difficult was this survey to complete?

- ☐ Very easy
- ☐ Somewhat easy
- ☐ Neither easy nor difficult
- ☐ Somewhat difficult
- ☐ Very difficult

At Stack Overflow, we occasionally like to speak directly with developers like you to learn more about your opinions. Are you interested in being contacted by Stack Overflow to participate in further research?

- ☐ Yes
- ☐ No

### SurveyEmailCollect

Please share the best email address at which to contact you for further research. *This information will be kept private.*



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