



The State of Jamstack 2022 Report.

In partnership with



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About Kontent.

Kontent by Kentico is the world's leading cloud-based headless CMS platform. Robust APIs, webhooks, and flexible content models give developers full control over the structure of their content and how it's delivered to their websites and applications. The APIs deliver clean, structured content that can be pulled into any experience and technology stack.

On top of this headless foundation, Kontent includes an intuitive authoring experience that lets marketers focus on content creation and business workflows without requiring developer involvement. This frees developers to focus on what they do best—building engaging online experiences that look great in every channel.

Companies across a wide range of industries have built their online experiences on top of Kontent, including Vogue, PPG, Oxford University, AC Milan, and Konica Minolta. Additionally, Kontent by Kentico is regularly included in key industry reports published by Gartner, Forrester Research, and G2.

About this report.

For the third year in a row, we put the current state of Jamstack's adoption and use under the microscope. We asked **746 developers in Europe, North America, Australia**, and Asia what they think about the Jamstack and compared their answers to those collected in previous years.

How has the popularity of the Jamstack changed over time? Are developers using the same tools now as before? Read on to discover that and other interesting facts, such as:

- 8 key reasons why developers are choosing the Jamstack
- What the top challenges in adopting the Jamstack architecture are
- What static site generators developers like in 2022
- What developers love and hate about today's Jamstack tooling

We hope you'll enjoy reading this report as much as we enjoyed putting it together. Tell us what you think of the survey results on [Twitter](#), [LinkedIn](#), [Facebook](#), or [Instagram](#)!



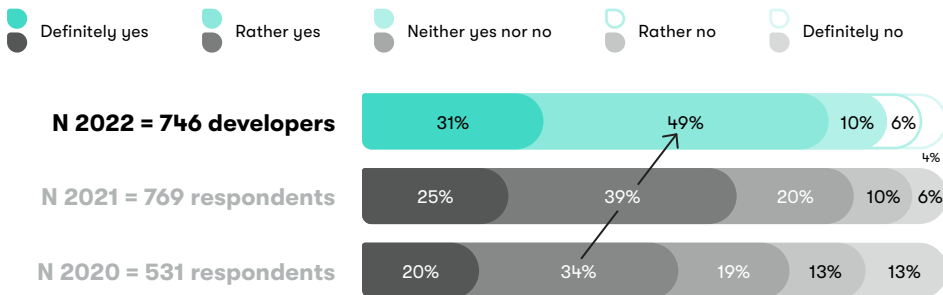
The Jamstack survey results.

1 Are you familiar with this definition of the Jamstack?



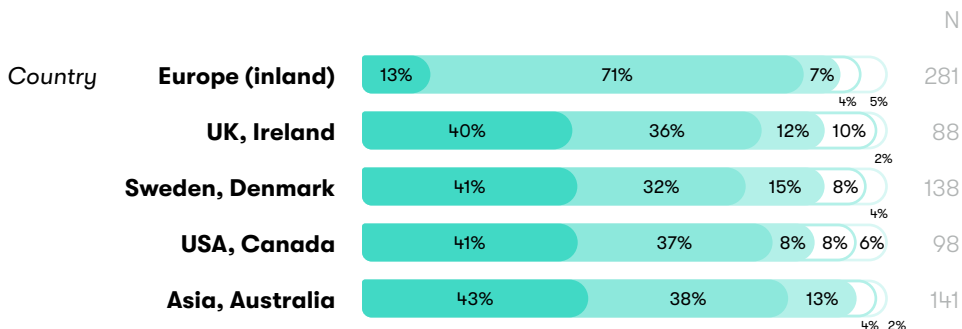
Jamstack is a modern web development architecture based on pre-generated HTML markup where dynamic and interactive functionalities are handled by JavaScript, and server-side operations are abstracted into reusable APIs.
“JAM” == “JavaScript, APIs, Markup”

Respondents could select only one answer.



This year-over-year comparison shows that **familiarity with the term has grown significantly**. In 2022, 80% of developers report being familiar with what Jamstack stands for, which is an increase of 16% since last year.

Developers from Europe (inland) are the most familiar with the definition, but this group also includes the lowest percentage of respondents who say they certainly know the definition. This might indicate that the Jamstack is a known concept in this region but isn't as clearly defined as in other areas.



N = 465 developers

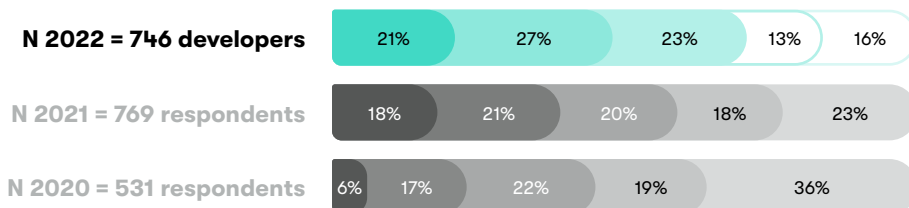


2 How long have you been working with the Jamstack?



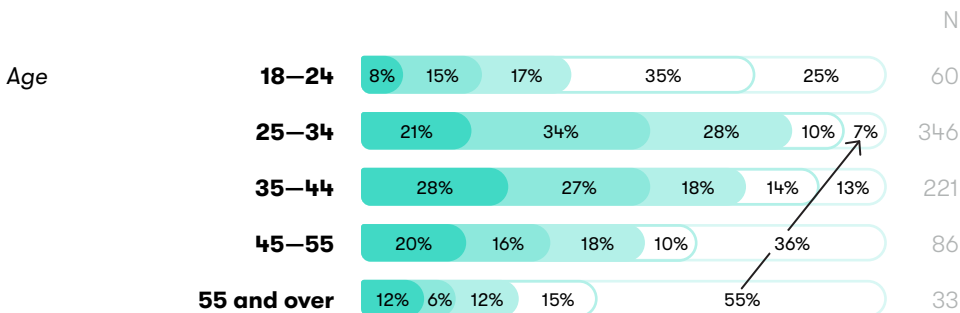
Respondents could select only one answer.

3 + years
2 years
1 year
Less than a yer
never



The amount of the respondents' experience and practice with the Jamstack has increased since last year, both overall and in specific groups.

As you can see in the chart, the younger the respondents are, the longer their experience with the Jamstack is.



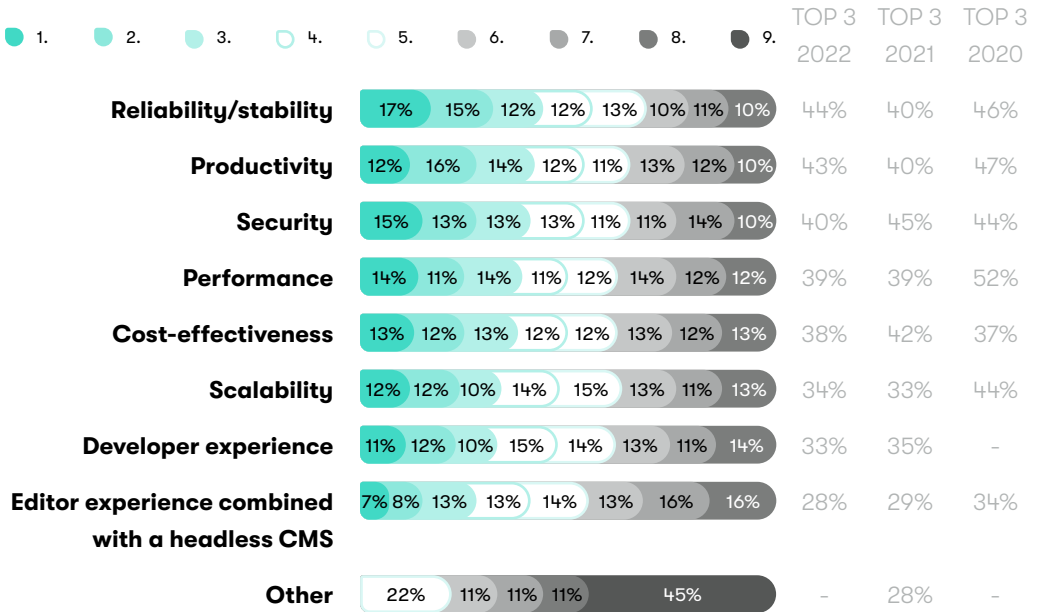
N = 746 developers



3 What are most likely the reasons for choosing the Jamstack to build an app with?



Respondents were asked to put the items in order (the most likely reasons at the top, the least likely reasons at the bottom of the list).



N = 628 developers working with the Jamstack

For developers who have already worked with Jamstack, **reliability/stability** is the top reason for choosing it (44%). **Productivity** was ranked second by 43% of respondents, and **security** third by 40%.



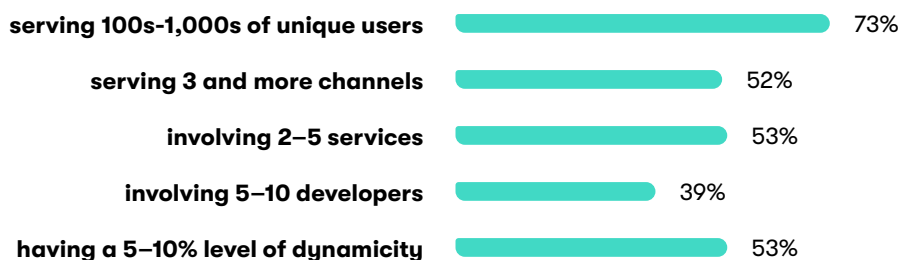
4 Think of the most complex project you've built with Jamstack. Try to describe its complexity (choose one item in each line):

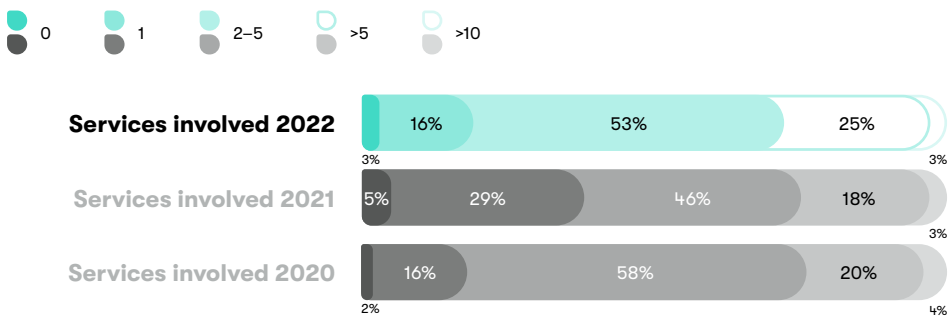
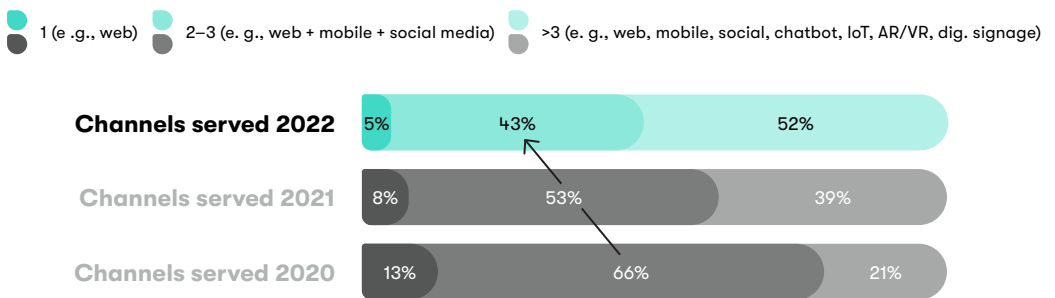
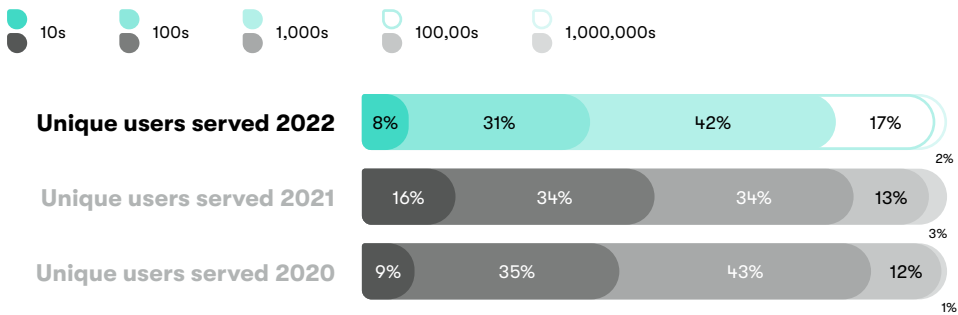


Respondents could select only one item in each line.

Unique users served	10s	100s	1,000s	100,000s	1,000,000s
Channels served	1 e.g., web	2–3 e.g., web + mobile + social media	> 3 e.g., web, mob, social, chatbot, IoT, AR/VR, digital signage		
Services involved (integrations/microservices/serverless functions)	0	1	2–5	> 5	> 10
Developers involved	1	1–4	5–10	> 10	> 20
Level of dynamicity	None e.g., a blog or a landing page	Up to 5% e.g., a microsite	Up to 10% e.g., a corporate website	Up to 25% e.g., an e-shop	More than 25% e.g., a personalized website/portal

The majority of developers working with the Jamstack **describe their most complex projects as:**

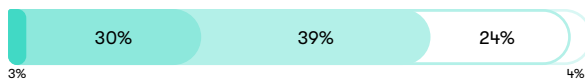




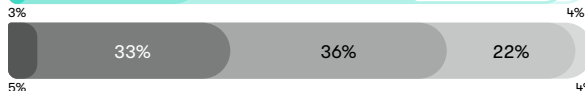
N (2022) = 628 developers working with the Jamstack
 N (2021) = 592 developers working with the Jamstack
 N (2020) = 339 developers working with the Jamstack



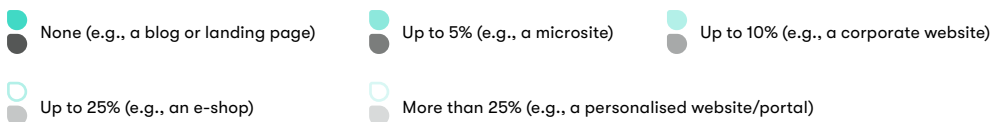
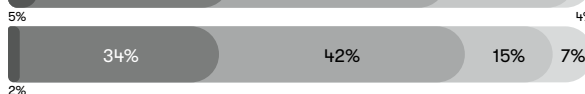
Developers involved 2022



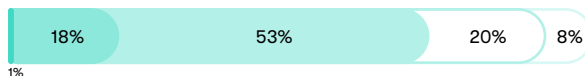
Developers involved 2021



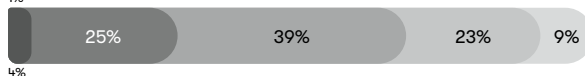
Developers involved 2020



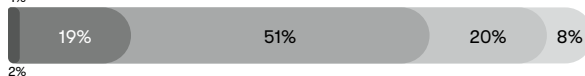
Level of dynamicity 2022



Level of dynamicity 2021



Level of dynamicity 2020



N (2022) = 628 developers working with the Jamstack

N (2021) = 592 developers working with the Jamstack

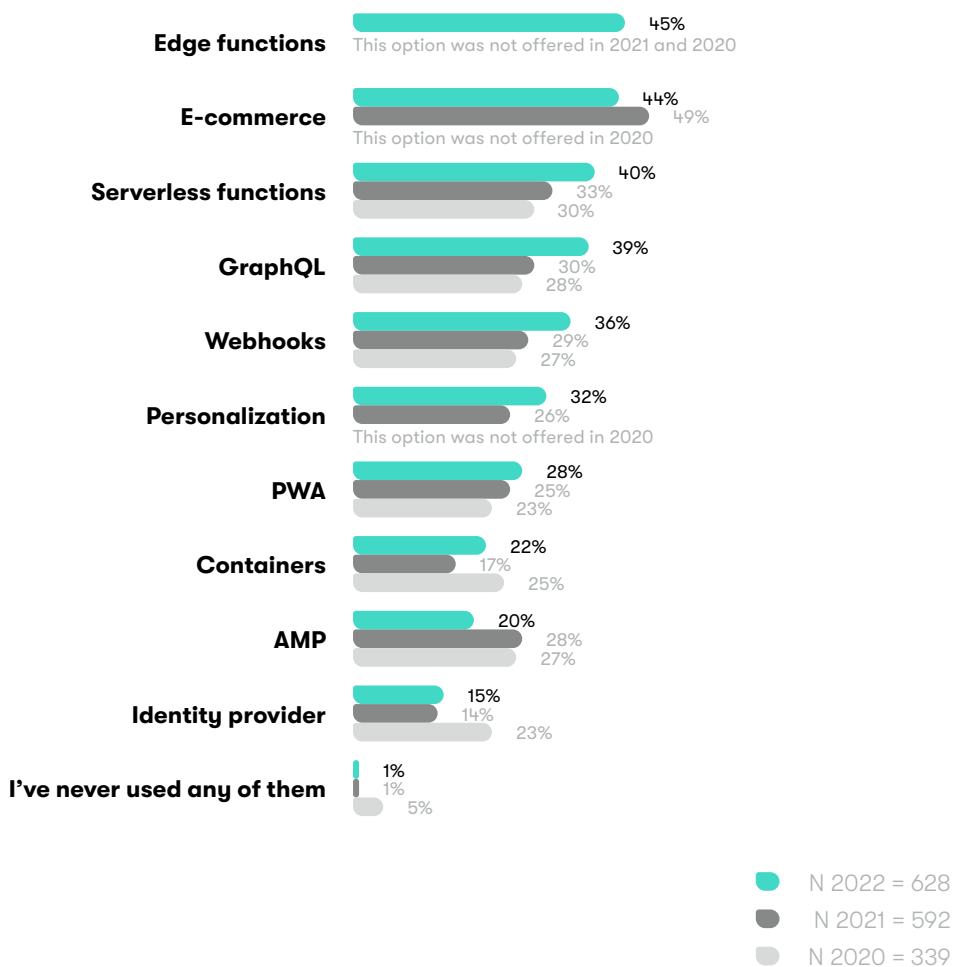
N (2020) = 339 developers working with the Jamstack



5 Please, select the technologies you've ever used in a Jamstack project.



Respondents could select more than one answer.



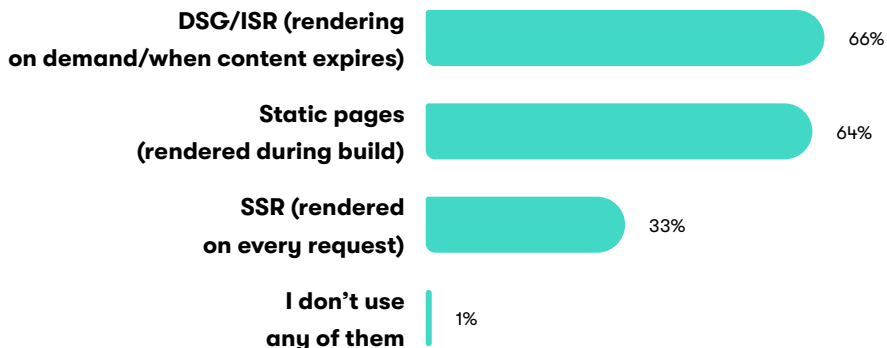
In their Jamstack projects, developers in 2022 most frequently use **edge functions** (45%), **e-commerce** (44%), and **serverless functions** (40%).



6 Which rendering modes of Jamstack sites do you use?



Respondents could select more than one answer.



DSG/ISR (66%) and **static pages** (64%) are the most frequently used rendering modes. While DSG/ISR is more frequently used by developers from inland Europe (72%), Asia/Australia (74%), and by developers who program in Java (70%), static pages are dominant among respondents in Sweden/Denmark, USA/Canada (70%), and respondents whose primary programming language is C# (72%).

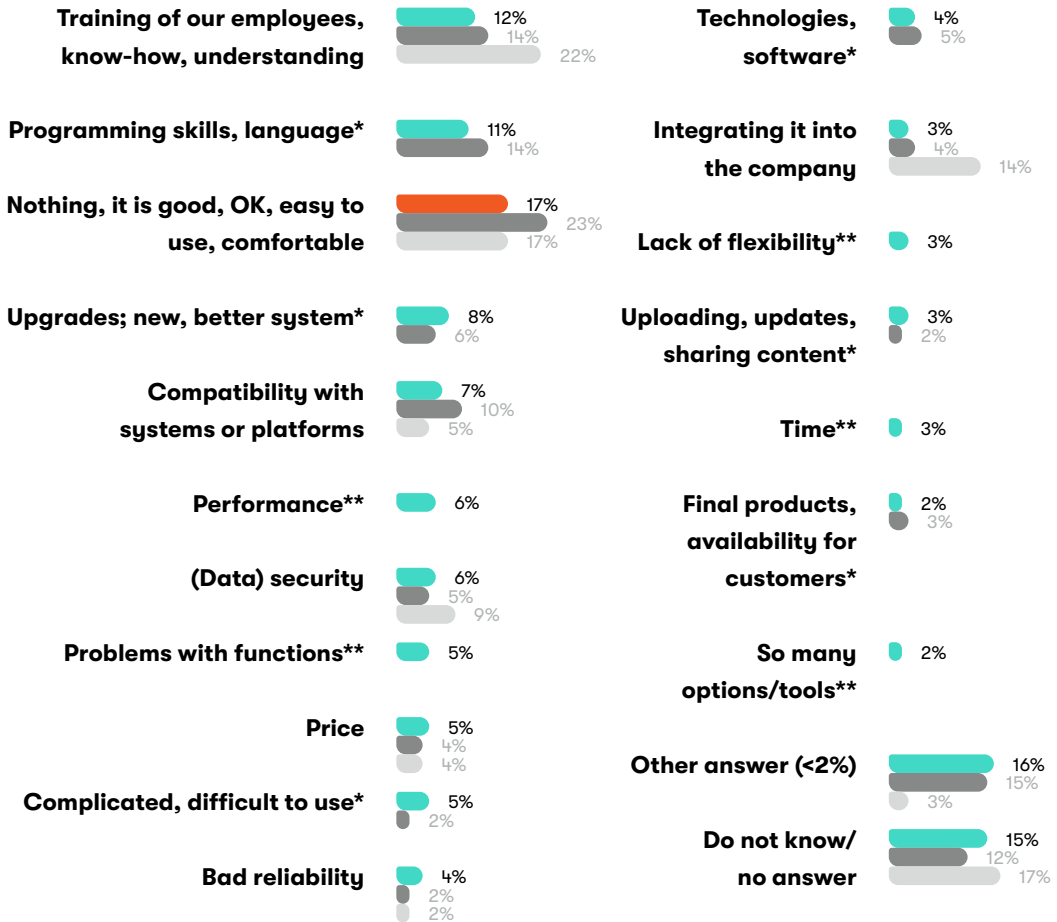
		DSG/ISR	Static pages	SSR	Doesn't use any of them	N
Country	Europe (inland)	72%	65%	25%	1%	248
	UK, Ireland	62%	56%	38%	3%	68
	Sweden, Denmark	50%	70%	27%	1%	112
	USA, Canada	65%	70%	45%	1%	82
	Asia, Australia	74%	58%	47%		118
Primary programming language	JavaScript	68%	57%	47%	1%	144
	Java	70%	67%	22%	2%	230
	Python	62%	52%	45%	2%	66
	C#	52%	72%	28%		90
	Other	69%	69%	36%		98



7 Considering your experience, where do the biggest challenges in adopting the Jamstack architecture lie? Try to think about all three aspects—JavaScript, APIs, Markup.



Respondents could provide more than one answer.



■ N 2022 = 628

■ N 2021 = 592

■ N 2020 = 339

**This option was not offered in 2021 and 2020

*This option was not offered in 2020

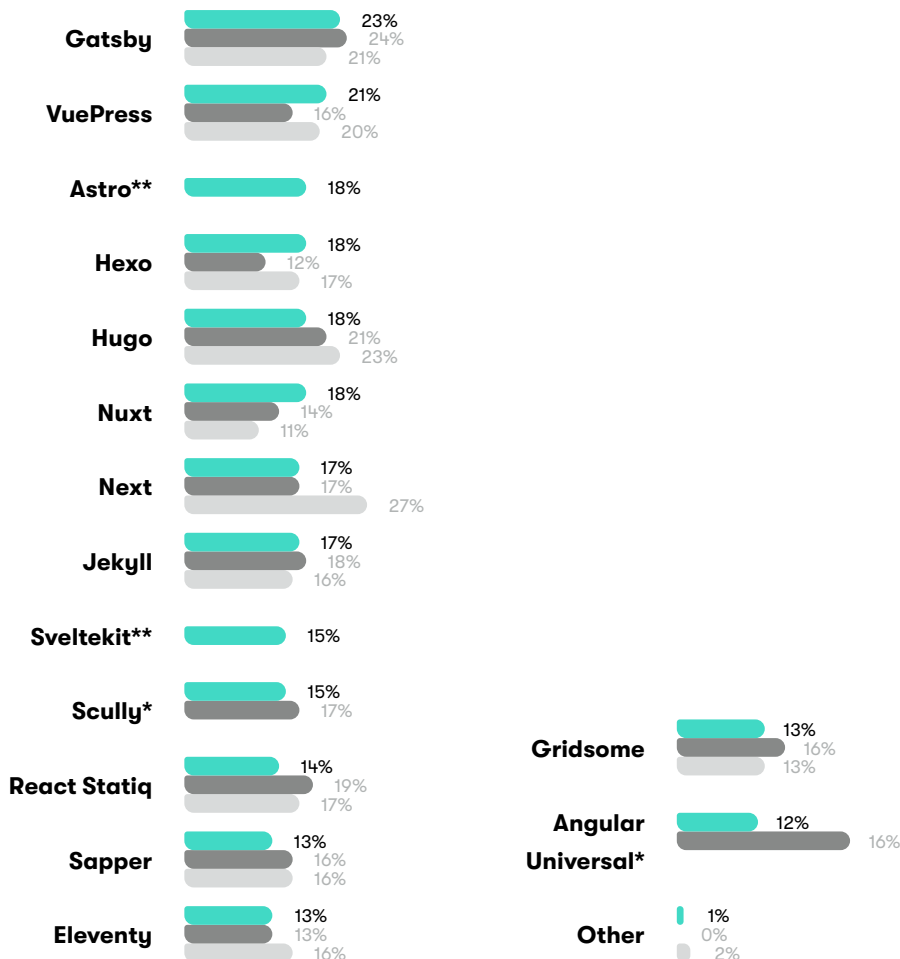
This year's results show that the biggest challenges to adopting the Jamstack architecture are still **employee training, know-how, and learning how this approach works** (12%). On the other hand, 17% of respondents said there are no challenges, stating that the Jamstack is good, easy to use, or comfortable.



8 Which static site generators do you like to develop with?



Respondents could select up to three answers.



**This option was not offered in 2021 and 2020

*This option was not offered in 2020

■ N 2022 = 628

■ N 2021 = 592

■ N 2020 = 339

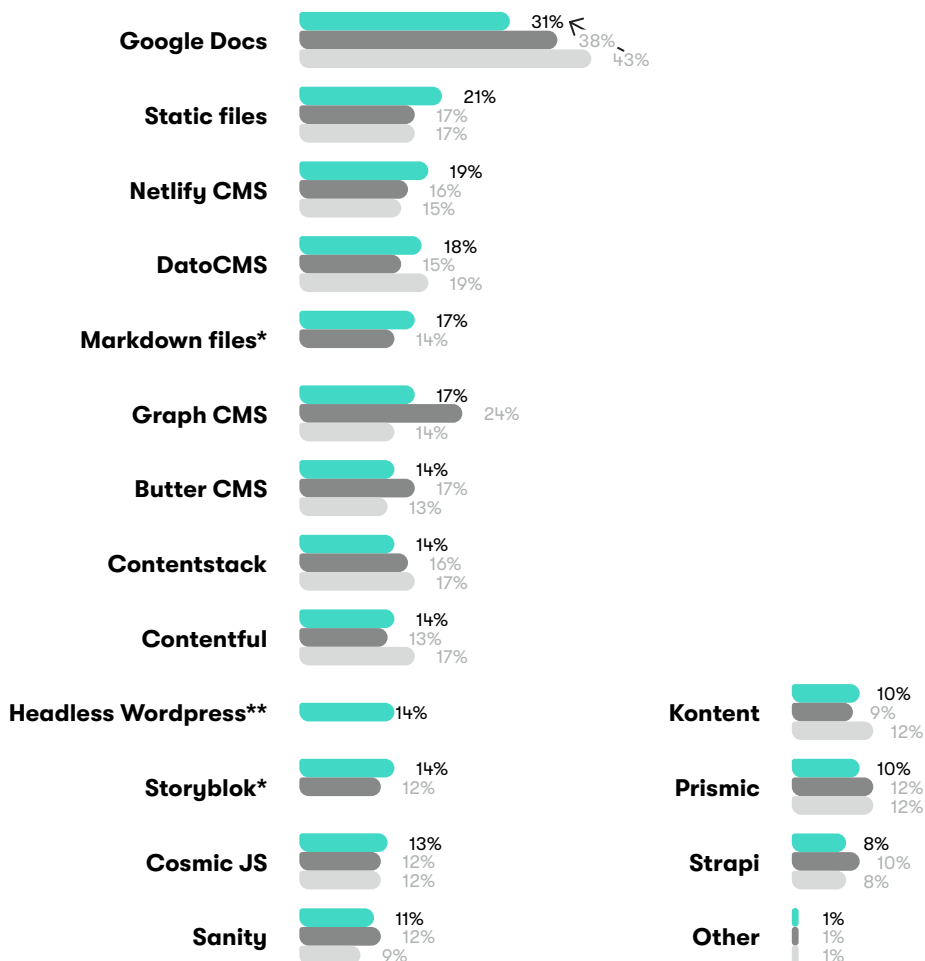
The most popular static site generators are **Gatsby** (23%), which has been #1 since our survey started in 2020, and **VuePress** (21%), which has grown in popularity since last year. Other generators that developers like to use for their Jamstack sites include **Astro**, **Hexo**, **Hugo**, and **Nuxt** (18%).



9 Where do you prefer to keep your content?



Respondents could select up to three answers.



**This option was not offered in 2021 and 2020

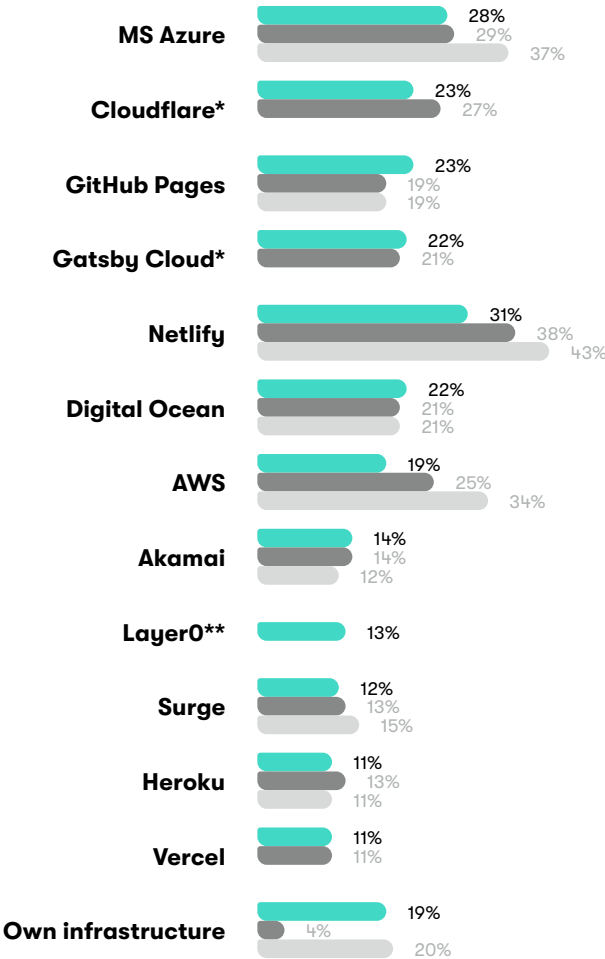
*This option was not offered in 2020

Although **Google Docs** is still the most popular service for storing content, its position has weakened (-7% since 2021). On the other hand, **static files**, **Netlify CMS**, **DatoCMS**, and **markdown files** are becoming more popular and are currently used by 17% to 21% of developers.



10 Where do you typically deploy and host your projects?

Respondents could select up to three answers.



**This option was not offered in 2021 and 2020

*This option was not offered in 2020

N 2022 = 628
N 2021 = 592
N 2020 = 339

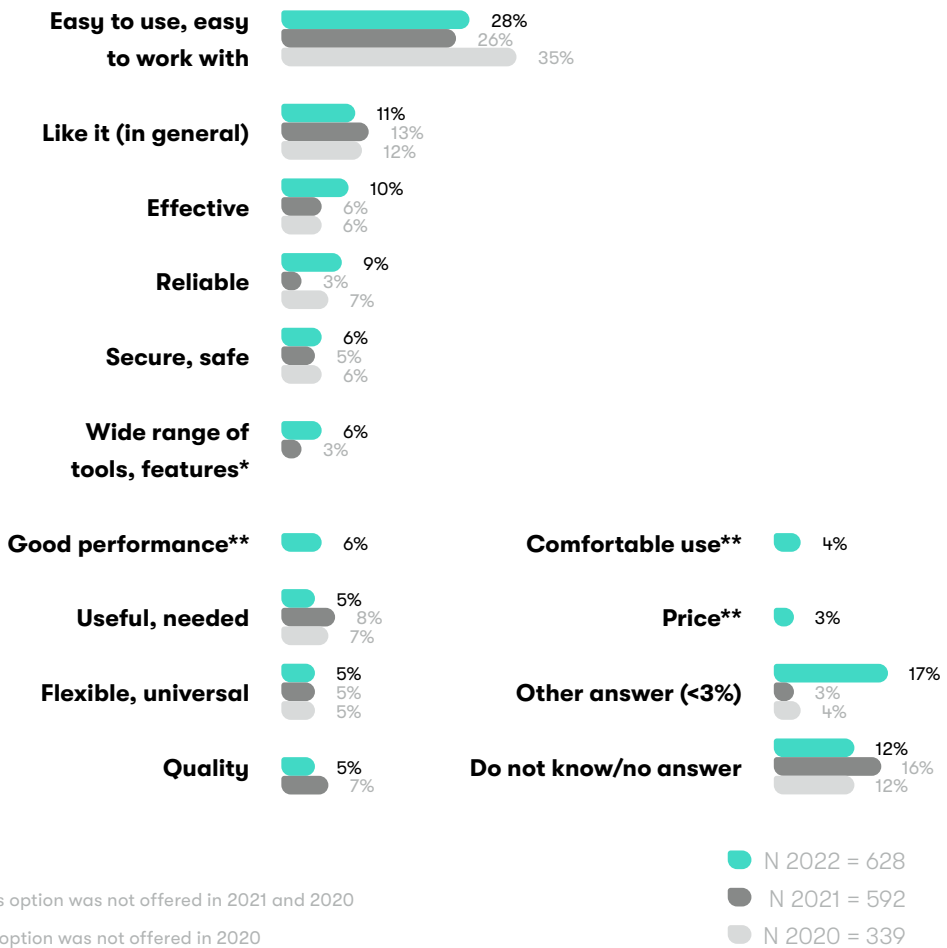
MS Azure, which was previously by far the most popular tool for deployment and hosting of projects, has slightly decreased in popularity (28% vs. 29% in 2021), and the same has happened with **Cloudflare** (23% vs. 27% in 2021) and **AWS** (19% vs. 25% in 2021). On the other hand, **GitHub Pages** (23% vs. 19% in 2021), **Gatsby Cloud** (22% vs. 21% in 2021), and **Netlify** (22% vs. 21%) have improved their positions.

Think about the tools you’ve worked with—Static Site Generators, Headless CMSs, and Deployment Providers. Consider things like developer experience, learning curve, productivity, reliability, and collaboration features.



11 What do you love about today’s Jamstack tooling?

Respondents could select up to three answers.

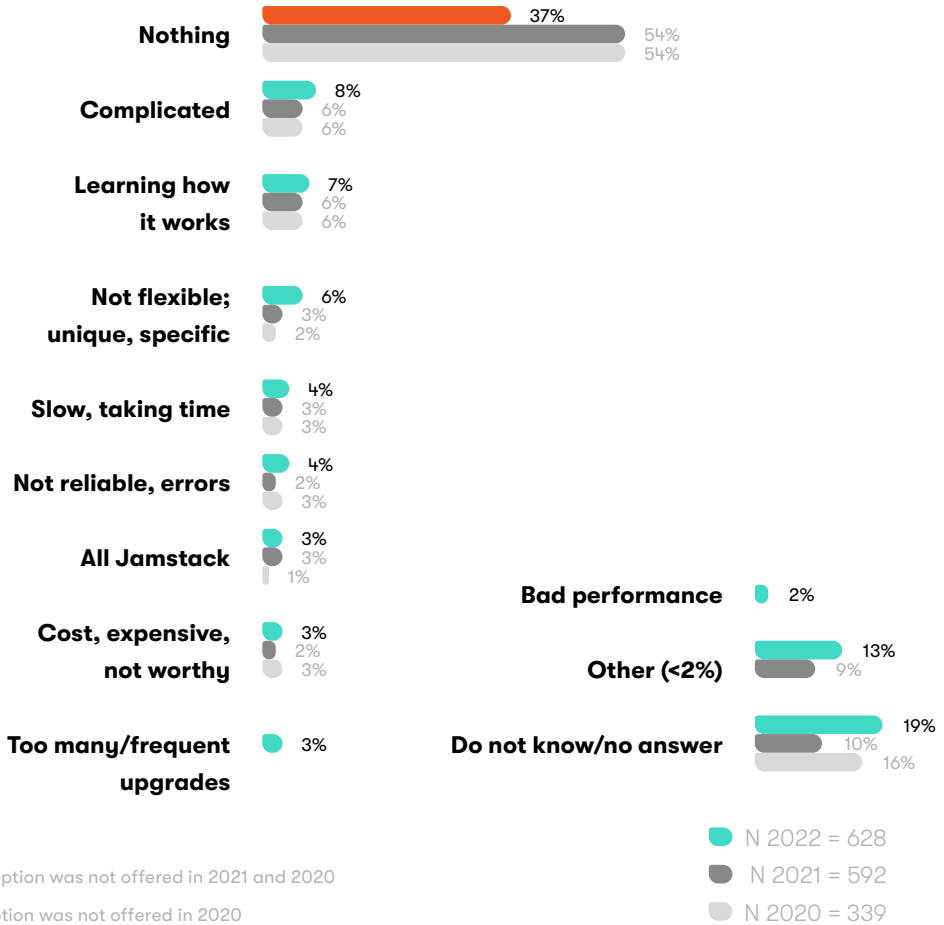


28% of respondents appreciate that the Jamstack is **easy to use/easy to work with**, and 11% like it in general. Other positive things include reliability, effectiveness, security, features, good performance, and flexibility.

12 What do you hate about today's Jamstack tooling?



Respondents could provide more than one answer.



While fewer people (37% vs. 54% in 2021) shared complaints such as “Jamstack is complicated,” “it’s difficult to learn how it works,” or “not flexible,” more of them replied, “I don’t know” or mentioned more specific issues.

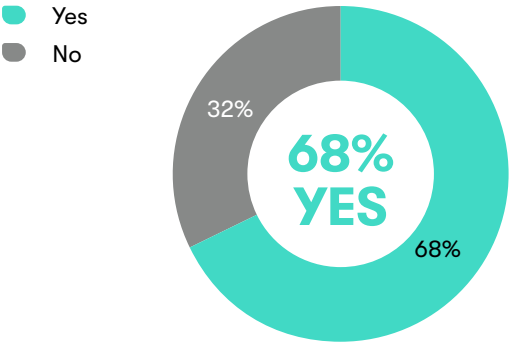




13

Are you interested in initiatives like Stackbit and Web Spotlight that provide a real-time editing experience for content editors on Jamstack sites?

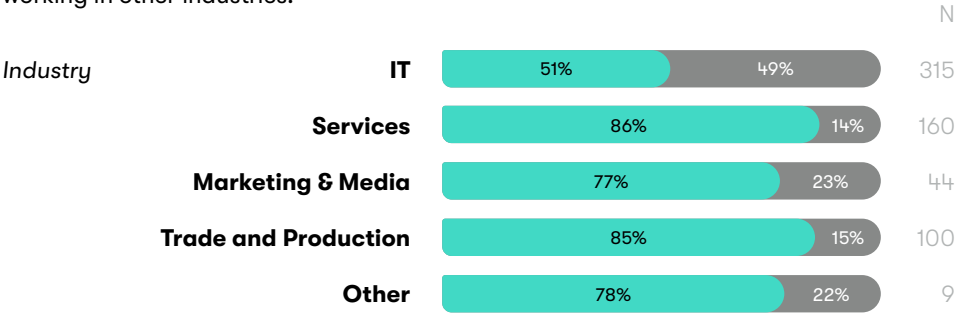
Respondents could select only one answer.



N = 628 developers working with the Jamstack

68% of developers who work with the Jamstack are interested in initiatives like Stackbit and Web Spotlight that provide a real-time editing experience for content editors on Jamstack sites.

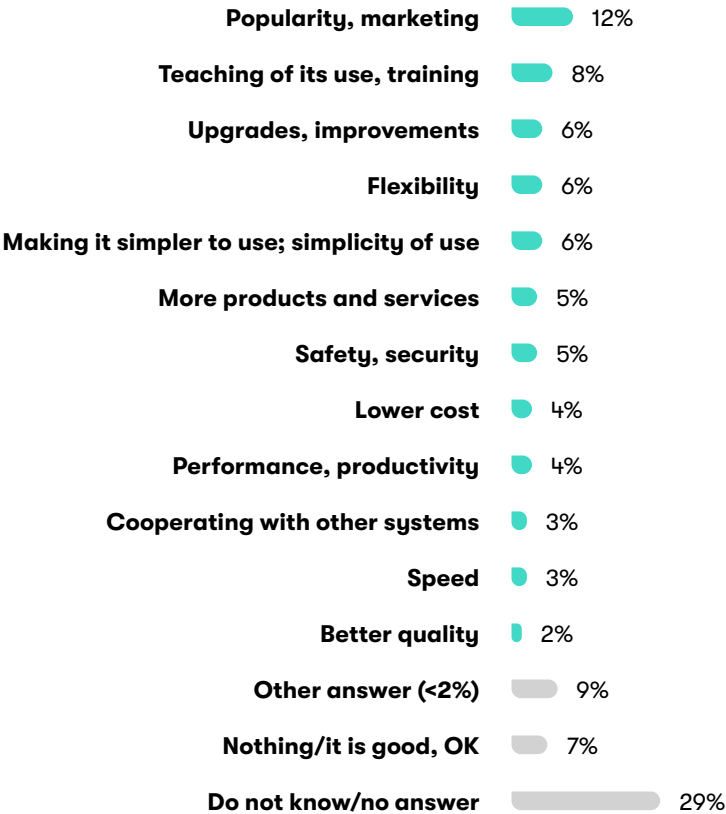
Developers from the IT industry were far less interested in these initiatives than those working in other industries:





14 Name one thing that could help increase the Jamstack adoption.

Respondents could select only one answer.



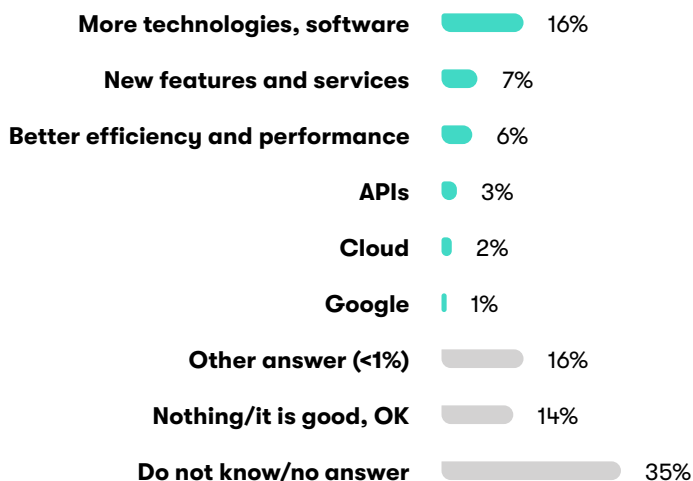
N = 259 developers

Those who provided an answer mentioned a few things that could help increase the adoption of this architecture: better marketing, training people on how to use the Jamstack, improvements that would increase flexibility, or making it easier to use.



15 Name one integration you'd like to see in the Jamstack world.

Respondents could select only one answer.



N = 229 developers

The majority of respondents did not answer this question, and those who did provided vague suggestions such as more technologies, features, and improved performance.



Conclusion.

Our annual survey among 700+ developers in Europe, Sweden, Denmark, the USA, Canada, Australia, and Asia shows that the Jamstack is increasingly becoming mainstream.

We've seen a shift from traditional development stacks to a new way of building websites and applications—developers are moving away from monolithic stacks to more flexible ones. This year, the findings reveal that:

- **80% of developers in 2022** know what the term **Jamstack** stands for (16% more than last year).
- The top reasons for choosing this modern architecture are **reliability/stability** (44%), **productivity** (43%), and **security** (40%).
- Most complex Jamstack projects serve 100s-1,000s of unique users on three and more channels, involve 2-5 services and 5-10 developers, and have a 5–10% level of dynamicity.
- Developers now most frequently use **edge functions** (45%), **e-commerce** (44%), and **serverless functions** (40%) on Jamstack sites.
- The most frequently used rendering modes are DSG/ISR (66%) and **static pages** (64%).
- The most popular static site generators are **Gatsby** (23%) and VuePress (21%), together with **Astro**, **Hexo**, **Hugo**, and **Nuxt** (18%).
- Although Google Docs (31%) is still the most popular service for storing content, **static files**, **Netlify CMS**, **DatoCMS**, and **markdown files** are growing in popularity (17%–21%).
- **MS Azure** is still the #1 tool for deployment and hosting of projects, followed by **Cloudflare** (23%), **GitHub Pages** (23%), **Gatsby Cloud** (22%), and **Netlify** (22%).

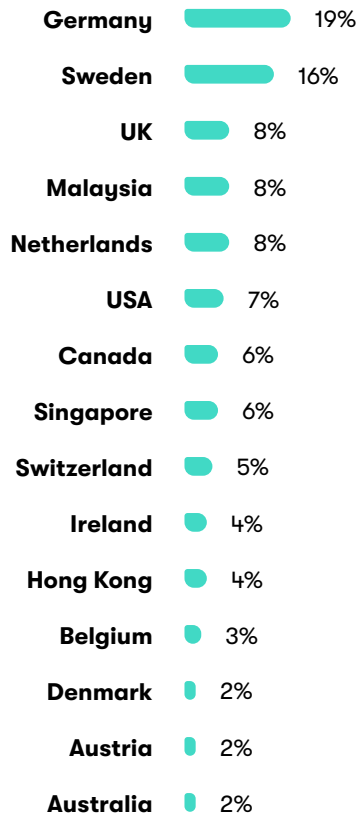


Thank you for downloading this report—we hope you enjoyed reading it! We love to hear back from our readers, so feel free to reach out to us on social media and let us know what you think about the Jamstack ecosystem.



Overview of our respondents.

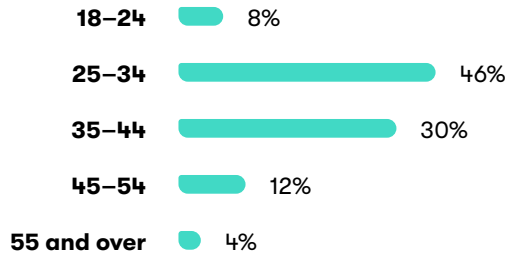
Country



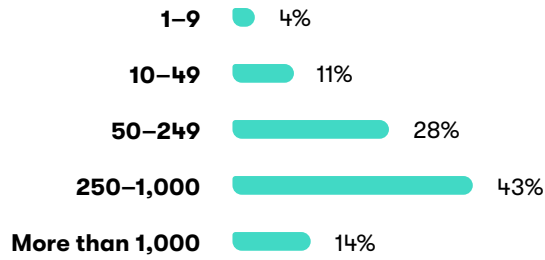
N = 746 developers



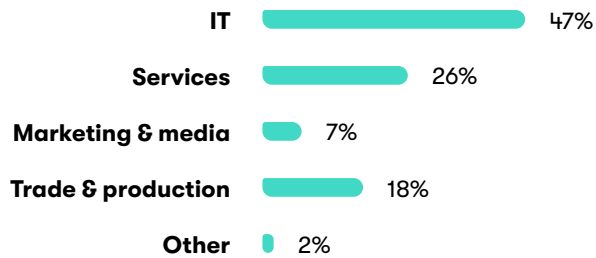
Age



Company size (employees)



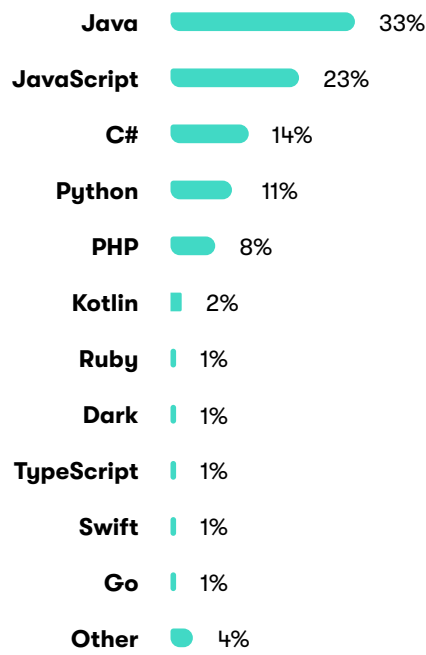
Industry



N = 746 developers

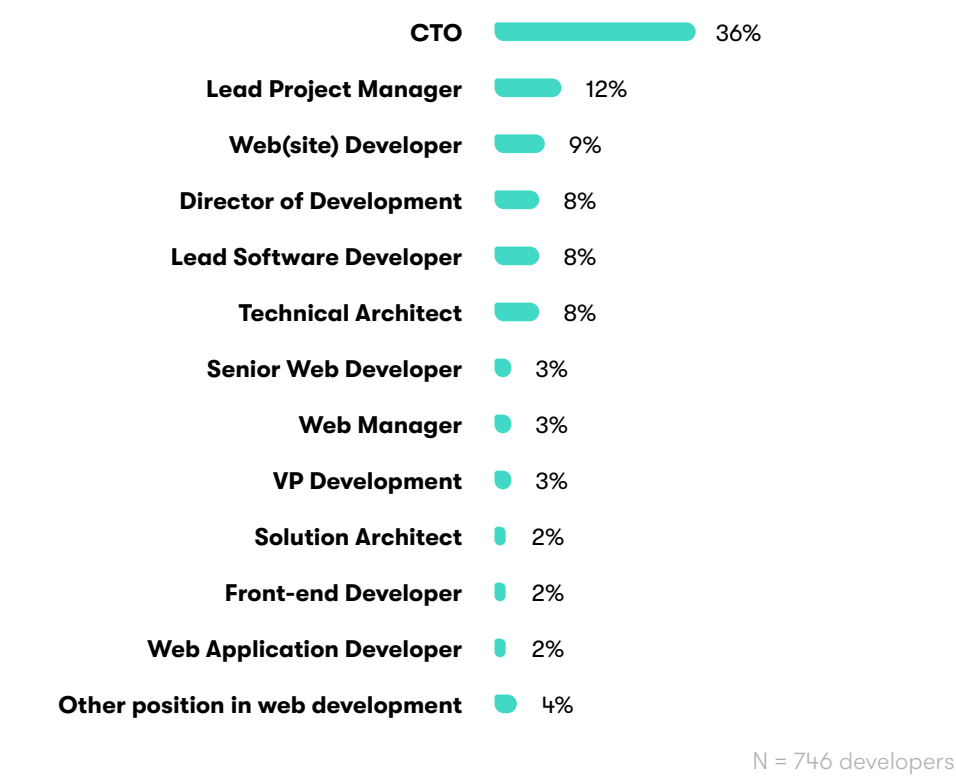


Primary programming language



N = 746 developers

Job title





The State of Jamstack 2022 Report.

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