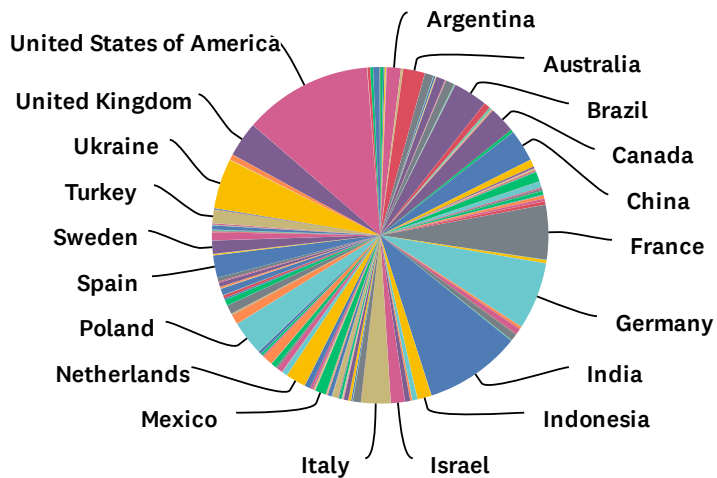


Q1 Where do you currently live?

Answered: 2,978 Skipped: 42



ANSWER CHOICES	RESPONSES	
Afghanistan	0.30%	9
Albania	0.13%	4
Algeria	0.13%	4
Andorra	0.00%	0
Angola	0.03%	1
Antigua and Barbuda	0.03%	1
Argentina	1.34%	40
Armenia	0.24%	7
Australia	2.08%	62
Austria	0.84%	25
Austrian Empire	0.03%	1
Azerbaijan	0.17%	5
Baden	0.07%	2
Bahamas	0.00%	0
Bahrain	0.03%	1
Bangladesh	0.87%	26
Barbados	0.03%	1
Bavaria	0.00%	0
Belarus	0.07%	2
Belgium	0.84%	25
Belize	0.00%	0
Benin (Dahomey)	0.03%	1
Bolivia	0.00%	0
Bosnia and Herzegovina	0.10%	3
Botswana	0.00%	0
Brazil	3.29%	98
Brunei	0.00%	0
Brunswick and Lüneburg	0.00%	0
Bulgaria	0.60%	18
Burkina Faso (Upper Volta)	0.07%	2
Burma	0.07%	2
Burundi	0.00%	0

Node.js Next 10 Survey - 2024

Cabo Verde	0.00%	0
Cambodia	0.13%	4
Cameroon	0.13%	4
Canada	2.52%	75
Cayman Islands	0.00%	0
Central African Republic	0.00%	0
Central American Federation	0.00%	0
Chad	0.00%	0
Chile	0.30%	9
China	3.09%	92
Colombia	0.71%	21
Comoros	0.00%	0
Congo Free State	0.00%	0
Costa Rica	0.17%	5
Cote d'Ivoire (Ivory Coast)	0.07%	2
Croatia	0.13%	4
Cuba	0.10%	3
Cyprus	0.10%	3
Czechia	0.94%	28
Czechoslovakia	0.00%	0
Democratic Republic of the Congo	0.00%	0
Denmark	0.60%	18
Djibouti	0.00%	0
Dominica	0.00%	0
Dominican Republic	0.13%	4
Duchy of Parma	0.00%	0
East Germany (German Democratic Republic)	0.00%	0
Ecuador	0.20%	6
Egypt	0.37%	11
El Salvador	0.07%	2
Equatorial Guinea	0.00%	0
Eritrea	0.00%	0
Estonia	0.30%	9
Eswatini	0.00%	0

Node.js Next 10 Survey - 2024

Ethiopia	0.27%	8
Fiji	0.00%	0
Finland	0.34%	10
France	5.24%	156
Gabon	0.00%	0
Gambia	0.03%	1
Georgia	0.30%	9
Germany	6.48%	193
Ghana	0.27%	8
Grand Duchy of Tuscany	0.00%	0
Greece	0.57%	17
Grenada	0.00%	0
Guatemala	0.03%	1
Guinea	0.00%	0
Guinea-Bissau	0.00%	0
Guyana	0.00%	0
Haiti	0.00%	0
Hanover	0.00%	0
Hanseatic Republics	0.00%	0
Hesse	0.00%	0
Holy See	0.00%	0
Honduras	0.00%	0
Hong Kong	0.03%	1
Hungary	0.67%	20
Iceland	0.07%	2
India	9.27%	276
Indonesia	1.38%	41
Iran	0.50%	15
Iraq	0.20%	6
Ireland	0.50%	15
Israel	1.34%	40
Italy	2.85%	85
Jamaica	0.00%	0

Node.js Next 10 Survey - 2024

Japan	0.77%	23
Jordan	0.03%	1
Kazakhstan	0.13%	4
Kenya	0.27%	8
Kingdom of Serbia/Yugoslavia	0.00%	0
Kiribati	0.00%	0
Korea	0.44%	13
Kosovo	0.07%	2
Kuwait	0.07%	2
Kyrgyzstan	0.03%	1
Laos	0.03%	1
Latvia	0.24%	7
Lebanon	0.10%	3
Lesotho	0.00%	0
Lew Chew	0.00%	0
Liberia	0.00%	0
Libya	0.03%	1
Liechtenstein	0.00%	0
Lithuania	0.54%	16
Luxembourg	0.03%	1
Madagascar	0.03%	1
Malawi	0.00%	0
Malaysia	0.40%	12
Maldives	0.00%	0
Mali	0.00%	0
Malta	0.07%	2
Marshall Islands	0.03%	1
Mauritania	0.00%	0
Mauritius	0.10%	3
Mecklenburg-Schwerin	0.00%	0
Mecklenburg-Strelitz	0.00%	0
Mexico	1.04%	31
Micronesia	0.03%	1

Node.js Next 10 Survey - 2024

Moldova	0.07%	2
Monaco	0.00%	0
Mongolia	0.10%	3
Montenegro	0.10%	3
Morocco	0.27%	8
Mozambique	0.00%	0
Namibia	0.00%	0
Nassau	0.00%	0
Nauru	0.00%	0
Nepal	0.54%	16
Netherlands	1.95%	58
New Zealand	0.54%	16
Nicaragua	0.03%	1
Niger	0.00%	0
Nigeria	0.54%	16
North German Confederation	0.00%	0
North German Union	0.00%	0
North Macedonia	0.17%	5
Norway	0.54%	16
Oldenburg*	0.00%	0
Oman	0.00%	0
Orange Free State	0.03%	1
Pakistan	0.94%	28
Palau	0.00%	0
Panama	0.13%	4
Papal States	0.00%	0
Papua New Guinea	0.00%	0
Paraguay	0.03%	1
Peru	0.24%	7
Philippines	0.30%	9
Piedmont-Sardinia	0.00%	0
Poland	3.32%	99
Portugal	0.94%	28

Node.js Next 10 Survey - 2024

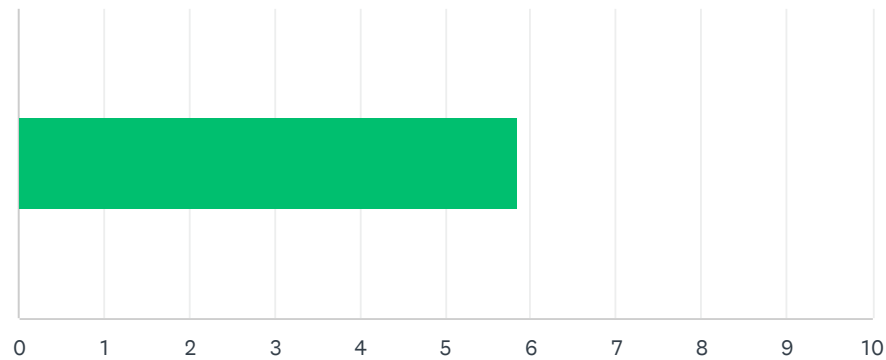
Qatar	0.00%	0
Republic of Genoa	0.00%	0
Republic of Korea (South Korea)	0.17%	5
Republic of the Congo	0.00%	0
Romania	0.87%	26
Russia	0.57%	17
Rwanda	0.17%	5
Saint Kitts and Nevis	0.00%	0
Saint Lucia	0.00%	0
Saint Vincent and the Grenadines	0.00%	0
Samoa	0.00%	0
San Marino	0.00%	0
Sao Tome and Principe	0.00%	0
Saudi Arabia	0.27%	8
Schaumburg-Lippe	0.00%	0
Senegal	0.03%	1
Serbia	0.64%	19
Seychelles	0.00%	0
Sierra Leone	0.03%	1
Singapore	0.17%	5
Slovakia	0.40%	12
Slovenia	0.13%	4
Solomon Islands	0.00%	0
Somalia	0.00%	0
South Africa	0.37%	11
South Sudan	0.00%	0
Spain	2.15%	64
Sri Lanka	0.10%	3
Sudan	0.03%	1
Suriname	0.00%	0
Sweden	1.28%	38
Switzerland	0.77%	23
Syria	0.00%	0

Node.js Next 10 Survey - 2024

Tajikistan	0.10%	3
Taiwan	0.10%	3
Tanzania	0.07%	2
Thailand	0.40%	12
Timor-Leste	0.00%	0
Togo	0.07%	2
Tonga	0.00%	0
Trinidad and Tobago	0.00%	0
Tunisia	0.13%	4
Turkey	1.28%	38
Turkmenistan	0.07%	2
Tuvalu	0.00%	0
Two Sicilies	0.00%	0
Uganda	0.10%	3
Ukraine	4.80%	143
Union of Soviet Socialist Republics	0.03%	1
United Arab Emirates	0.54%	16
United Kingdom	3.39%	101
United States of America	12.39%	369
Uruguay	0.03%	1
Uzbekistan	0.27%	8
Vanuatu	0.00%	0
Venezuela	0.27%	8
Vietnam	0.64%	19
Württemberg	0.00%	0
Yemen	0.03%	1
Zambia	0.00%	0
Zimbabwe	0.00%	0
TOTAL		2,978

Q2 How long have you been using Node.js?

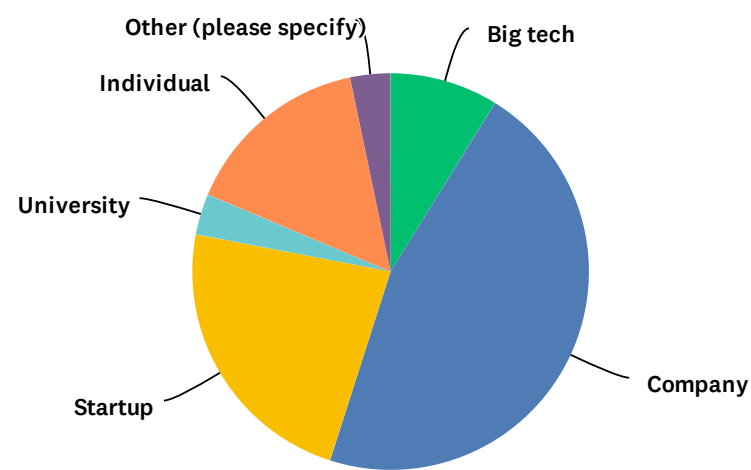
Answered: 2,965 Skipped: 55



ANSWER CHOICES	AVERAGE NUMBER	TOTAL NUMBER	RESPONSES
	6	17,320	2,965
Total Respondents: 2,965			

Q3 What type of organization do you work with?

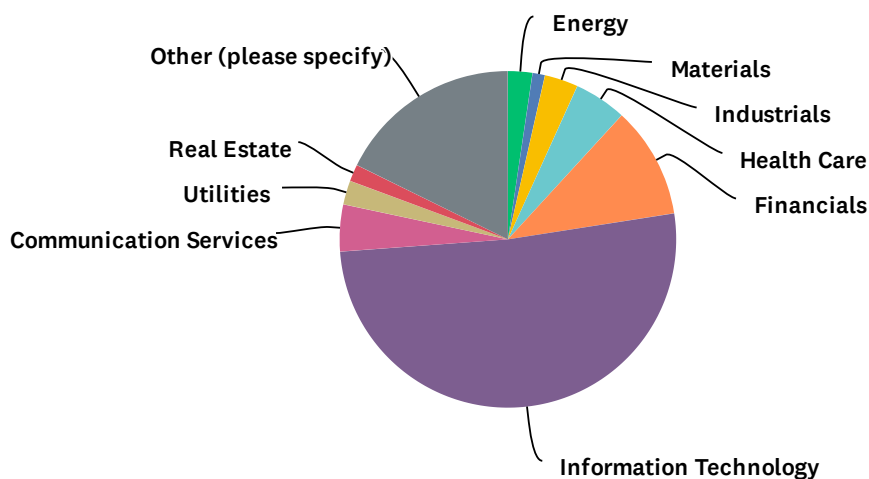
Answered: 2,988 Skipped: 32



ANSWER CHOICES	RESPONSES	
Big tech	8.84%	264
Company	46.12%	1,378
Startup	23.06%	689
University	3.35%	100
Individual	15.36%	459
Other (please specify)	3.28%	98
TOTAL		2,988

Q4 If working in a company, in which sector does your company operate?

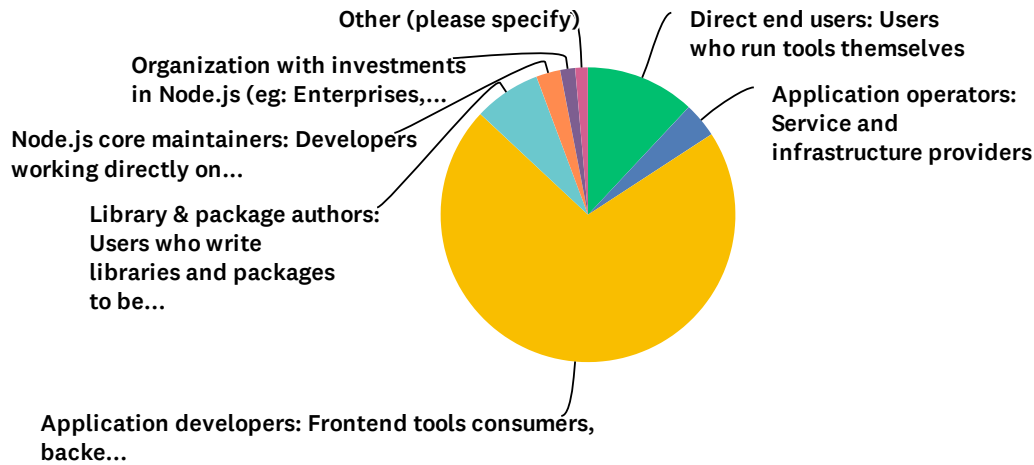
Answered: 2,596 Skipped: 424



ANSWER CHOICES	RESPONSES	
Energy	2.35%	61
Materials	1.19%	31
Industrials	3.24%	84
Health Care	5.05%	131
Financials	10.71%	278
Information Technology	51.31%	1,332
Communication Services	4.51%	117
Utilities	2.31%	60
Real Estate	1.62%	42
Other (please specify)	17.72%	460
TOTAL		2,596

Q5 Which of the following best reflects your role regarding Node.js?

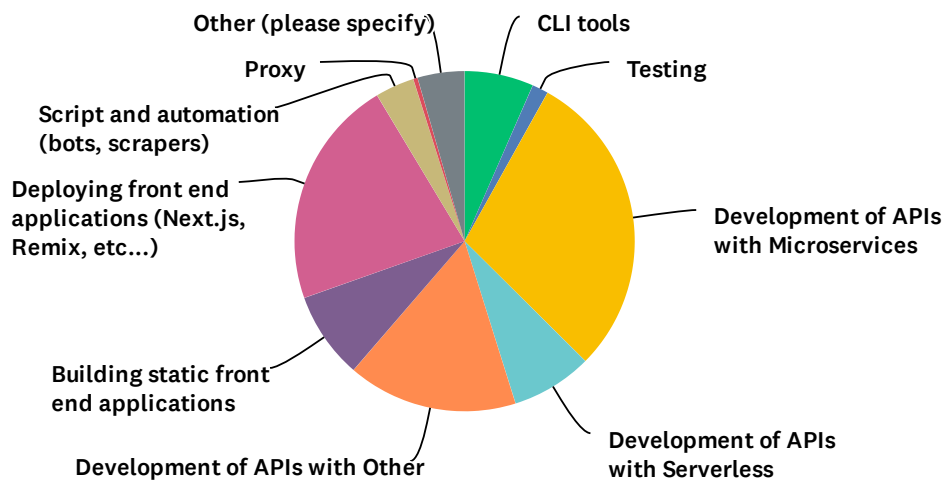
Answered: 2,939 Skipped: 81



ANSWER CHOICES	RESPONSES	
Direct end users: Users who run tools themselves	11.98%	352
Application operators: Service and infrastructure providers	3.84%	113
Application developers: Frontend tools consumers, backend server authors, tools authors	71.15%	2,091
Library & package authors: Users who write libraries and packages to be included on other applications	7.35%	216
Node.js core maintainers: Developers working directly on Node.js, individuals participating in Working Groups	2.65%	78
Organization with investments in Node.js (eg: Enterprises, Gouvernement bodies, Startups, Non-profit, Education, Security)	1.63%	48
Other (please specify)	1.40%	41
TOTAL		2,939

Q6 What is your primary use case for Node.js?

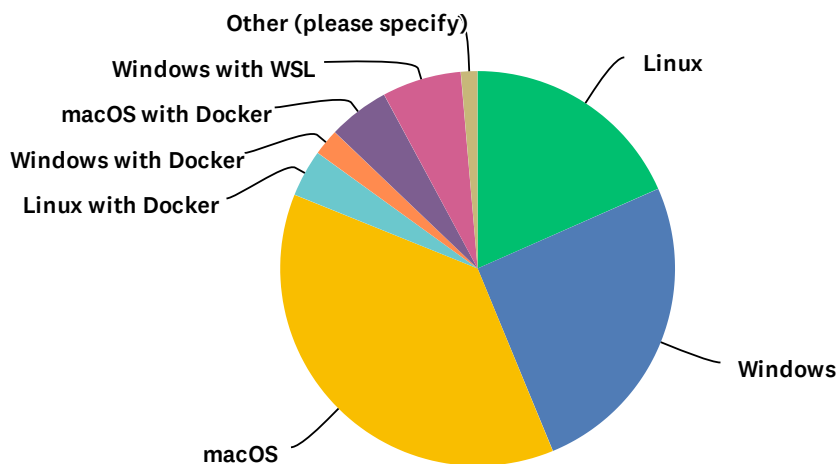
Answered: 2,956 Skipped: 64



ANSWER CHOICES	RESPONSES	
CLI tools	6.56%	194
Testing	1.56%	46
Development of APIs with Microservices	29.33%	867
Development of APIs with Serverless	7.71%	228
Development of APIs with Other	16.17%	478
Building static front end applications	8.25%	244
Deploying front end applications (Next.js, Remix, etc...)	21.82%	645
Script and automation (bots, scrapers)	3.72%	110
Proxy	0.41%	12
Other (please specify)	4.47%	132
TOTAL		2,956

Q7 What operating system is your local development environment?

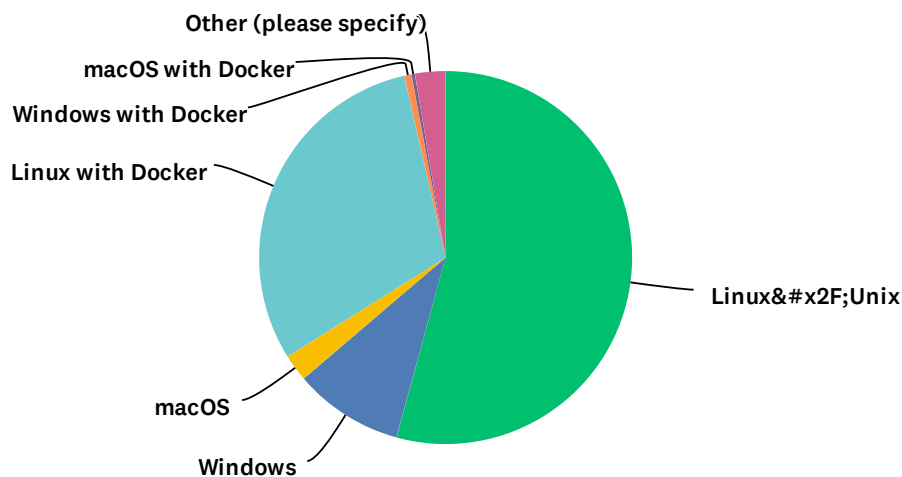
Answered: 2,953 Skipped: 67



ANSWER CHOICES	RESPONSES	
Linux	18.39%	543
Windows	25.40%	750
macOS	37.32%	1,102
Linux with Docker	3.86%	114
Windows with Docker	2.17%	64
macOS with Docker	5.01%	148
Windows with WSL	6.50%	192
Other (please specify)	1.35%	40
TOTAL		2,953

Q8 What operating system is your production environment?

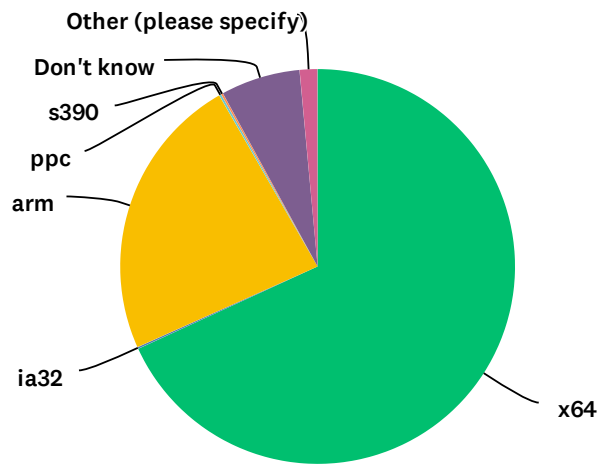
Answered: 2,929 Skipped: 91



ANSWER CHOICES	RESPONSES	
Linux/Unix	54.25%	1,589
Windows	9.53%	279
macOS	2.32%	68
Linux with Docker	30.35%	889
Windows with Docker	0.61%	18
macOS with Docker	0.31%	9
Other (please specify)	2.63%	77
TOTAL		2,929

Q9 What is your architecture in which you are running Node.js?

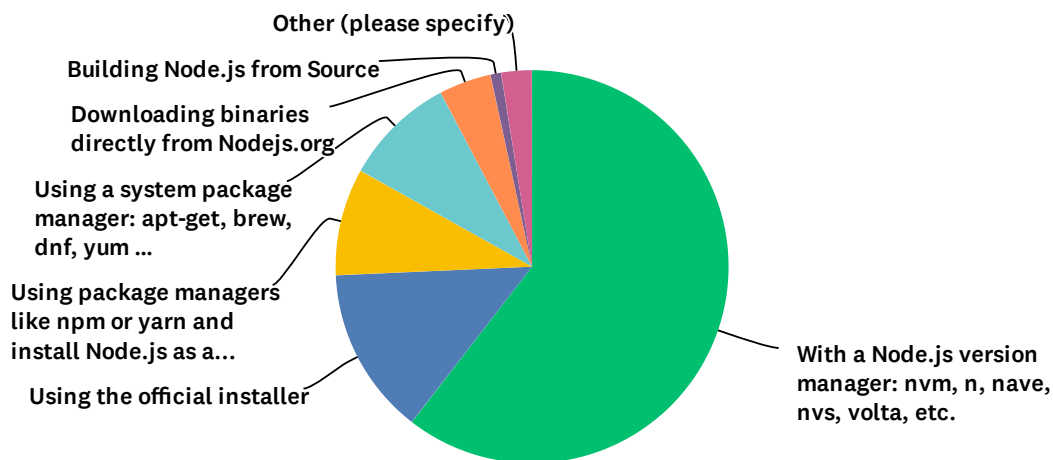
Answered: 2,953 Skipped: 67



ANSWER CHOICES	RESPONSES	
x64	68.17%	2,013
ia32	0.14%	4
arm	23.40%	691
ppc	0.17%	5
s390	0.17%	5
Don't know	6.50%	192
Other (please specify)	1.46%	43
TOTAL		2,953

Q10 How do you get your Node executables?

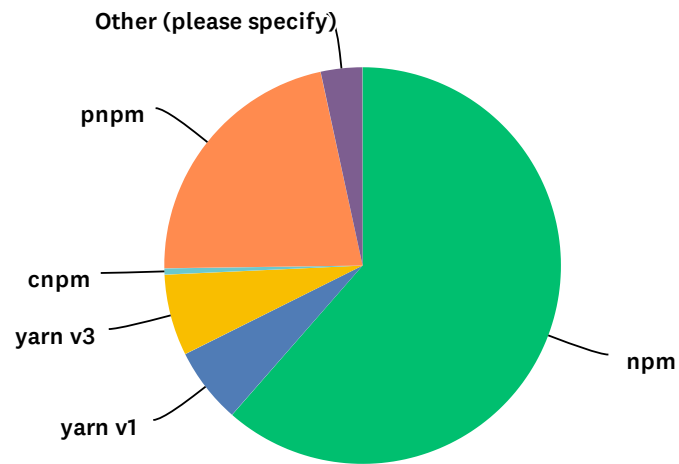
Answered: 2,939 Skipped: 81



ANSWER CHOICES	RESPONSES	
With a Node.js version manager: nvm, n, nave, nvs, volta, etc.	60.50%	1,778
Using the official installer	13.81%	406
Using package managers like npm or yarn and install Node.js as a package	8.81%	259
Using a system package manager: apt-get, brew, dnf, yum ...	9.19%	270
Downloading binaries directly from Nodejs.org	4.29%	126
Building Node.js from Source	0.88%	26
Other (please specify)	2.52%	74
TOTAL		2,939

Q11 Which package manager do you use?

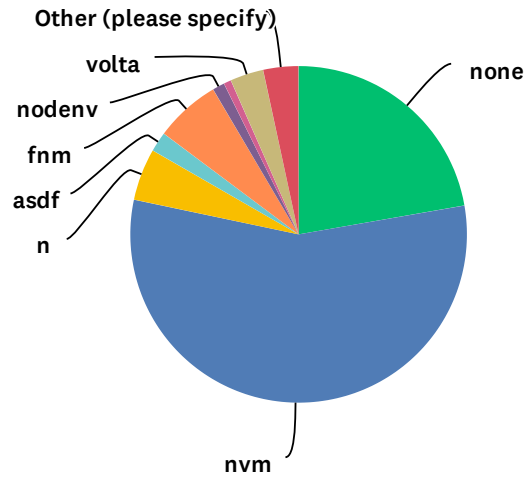
Answered: 2,939 Skipped: 81



ANSWER CHOICES	RESPONSES	
npm	61.45%	1,806
yarn v1	6.19%	182
yarn v3	6.63%	195
cnpm	0.51%	15
pnpm	21.81%	641
Other (please specify)	3.40%	100
TOTAL		2,939

Q12 Which version manager do you use?

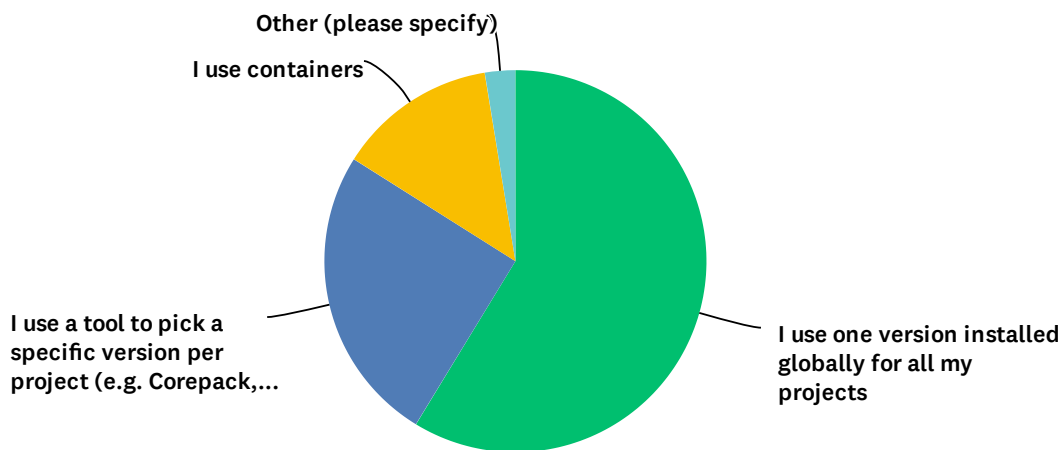
Answered: 2,925 Skipped: 95



ANSWER CHOICES	RESPONSES	
none	22.26%	651
nvm	56.07%	1,640
n	4.99%	146
asdf	1.91%	56
fnm	6.29%	184
nodenv	1.16%	34
nvs	0.72%	21
volta	3.21%	94
Other (please specify)	3.38%	99
TOTAL		2,925

Q13 How do you manage the package manager for your project?

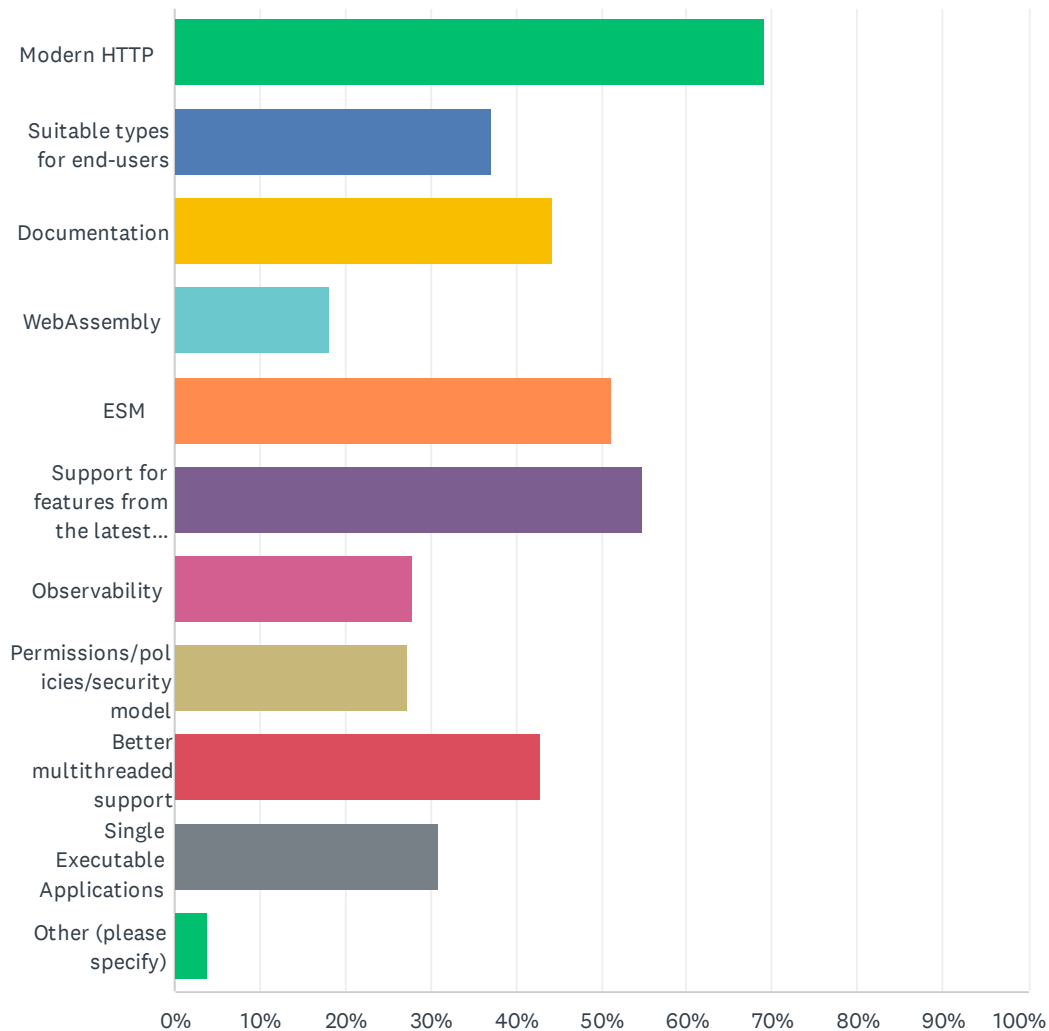
Answered: 2,888 Skipped: 132



ANSWER CHOICES		RESPONSES	
I use one version installed globally for all my projects		58.73%	1,696
I use a tool to pick a specific version per project (e.g. Corepack, asdf, ...)		25.24%	729
I use containers		13.47%	389
Other (please specify)		2.56%	74
TOTAL			2,888

Q14 Which of the current technical priorities are important to you? Select all that apply.

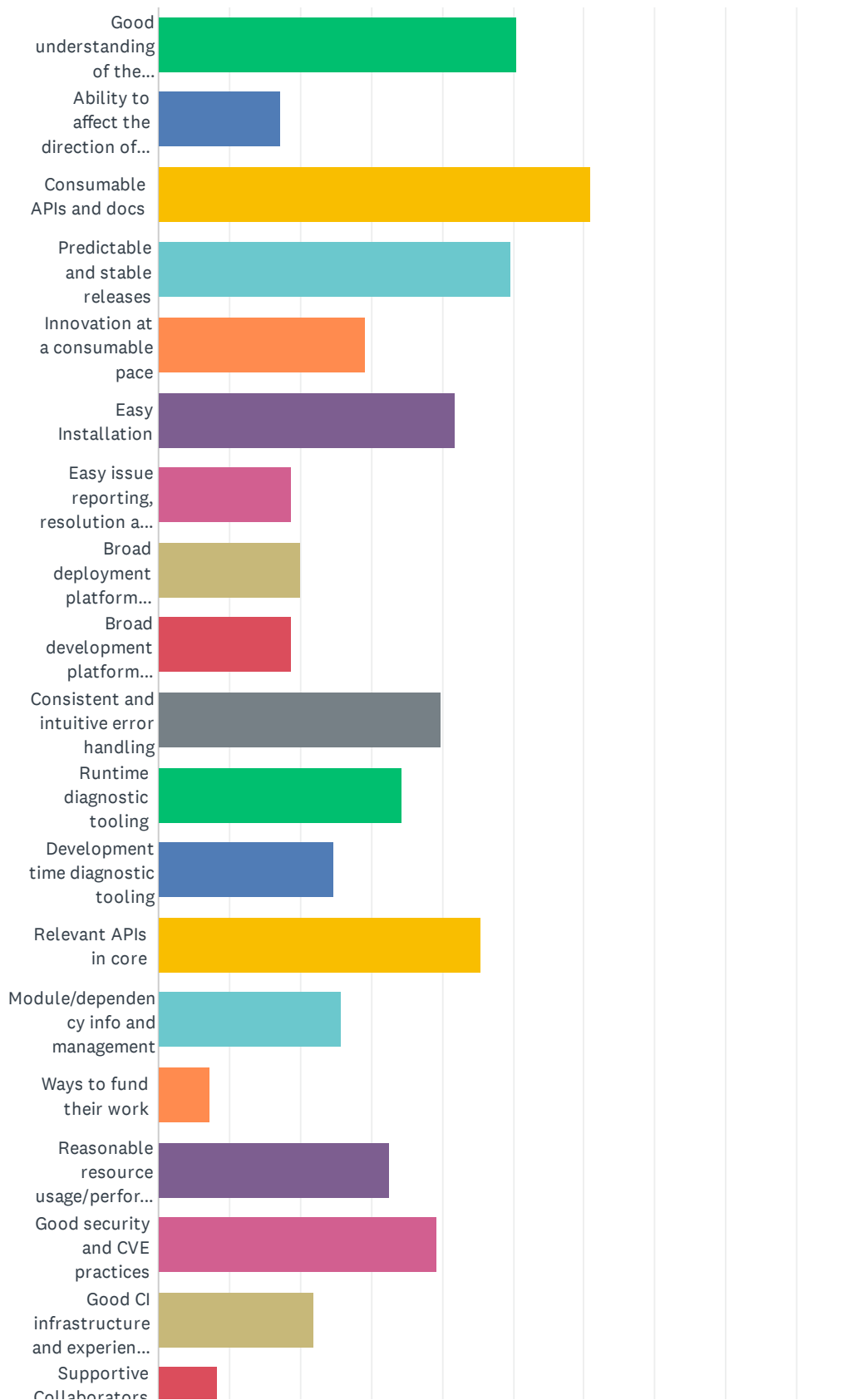
Answered: 2,892 Skipped: 128



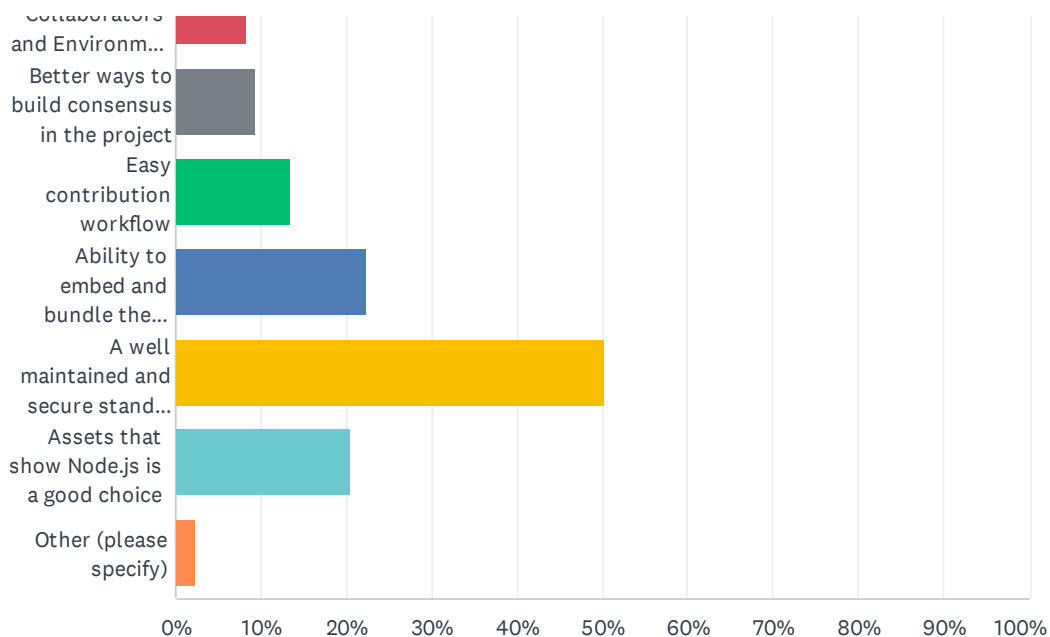
ANSWER CHOICES	RESPONSES	
Modern HTTP	68.98%	1,995
Suitable types for end-users	37.21%	1,076
Documentation	44.33%	1,282
WebAssembly	18.15%	525
ESM	51.18%	1,480
Support for features from the latest ECMAScript spec	54.88%	1,587
Observability	27.90%	807
Permissions/policies/security model	27.25%	788
Better multithreaded support	42.91%	1,241
Single Executable Applications	30.95%	895
Other (please specify)	3.87%	112
Total Respondents: 2,892		

Q15 What is important to you? Select all that apply.

Answered: 2,858 Skipped: 162



Node.js Next 10 Survey - 2024

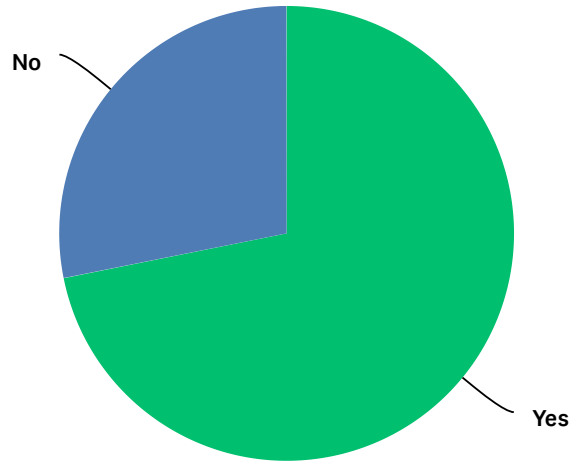


Node.js Next 10 Survey - 2024

ANSWER CHOICES	RESPONSES	
Good understanding of the direction of the project	50.49%	1,443
Ability to affect the direction of the project	17.28%	494
Consumable APIs and docs	60.99%	1,743
Predictable and stable releases	49.65%	1,419
Innovation at a consumable pace	29.11%	832
Easy Installation	41.81%	1,195
Easy issue reporting, resolution and collaboration	18.82%	538
Broad deployment platform support	19.94%	570
Broad development platform support	18.68%	534
Consistent and intuitive error handling	39.85%	1,139
Runtime diagnostic tooling	34.29%	980
Development time diagnostic tooling	24.63%	704
Relevant APIs in core	45.38%	1,297
Module/dependency info and management	25.86%	739
Ways to fund their work	7.31%	209
Reasonable resource usage/performance	32.65%	933
Good security and CVE practices	39.29%	1,123
Good CI infrastructure and experience in the project	21.87%	625
Supportive Collaborators and Environment in the project	8.33%	238
Better ways to build consensus in the project	9.38%	268
Easy contribution workflow	13.44%	384
Ability to embed and bundle the Node.js runtime	22.32%	638
A well maintained and secure standard library	50.35%	1,439
Assets that show Node.js is a good choice	20.54%	587
Other (please specify)	2.31%	66
Total Respondents: 2,858		

Q16 Regardless of how your code is written in its original form, when it runs in production, does it contain ES module syntax (`import`/`export``)?

Answered: 2,789 Skipped: 231



ANSWER CHOICES		RESPONSES	
Yes		71.85%	2,004
No		28.15%	785
TOTAL			2,789

Q17 For those of you wishing to use ESM in an existing application, what have been the pain points or blockers preventing you from doing so (if any)?

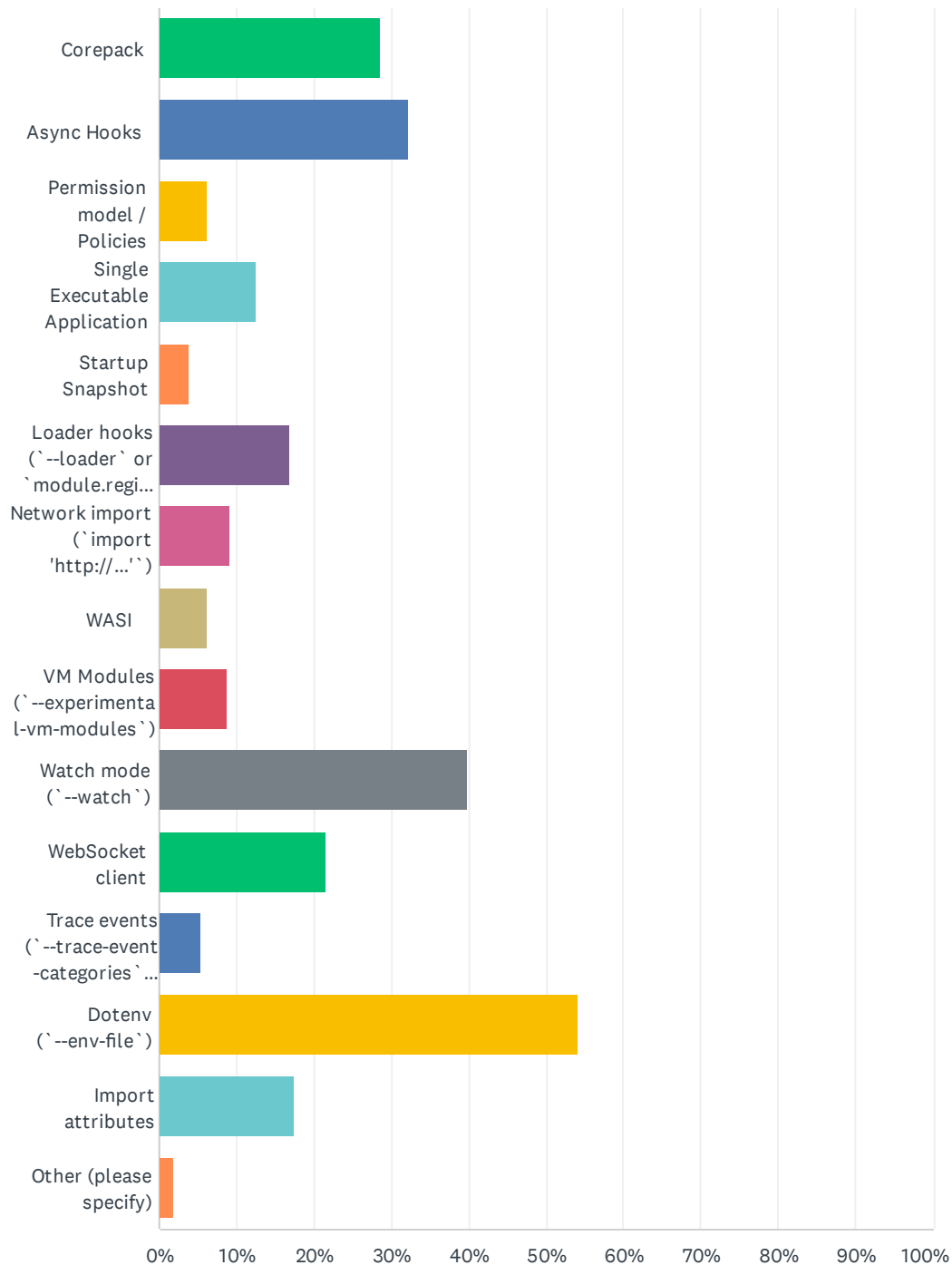
Answered: 861 Skipped: 2,159

Q18 Have you encountered any issues writing TypeScript where the production code used ES module syntax? If so, please include as much detail as possible such as tech stack.

Answered: 481 Skipped: 2,539

Q19 Are you using the following experimental features of Node.js?

Answered: 2,004 Skipped: 1,016

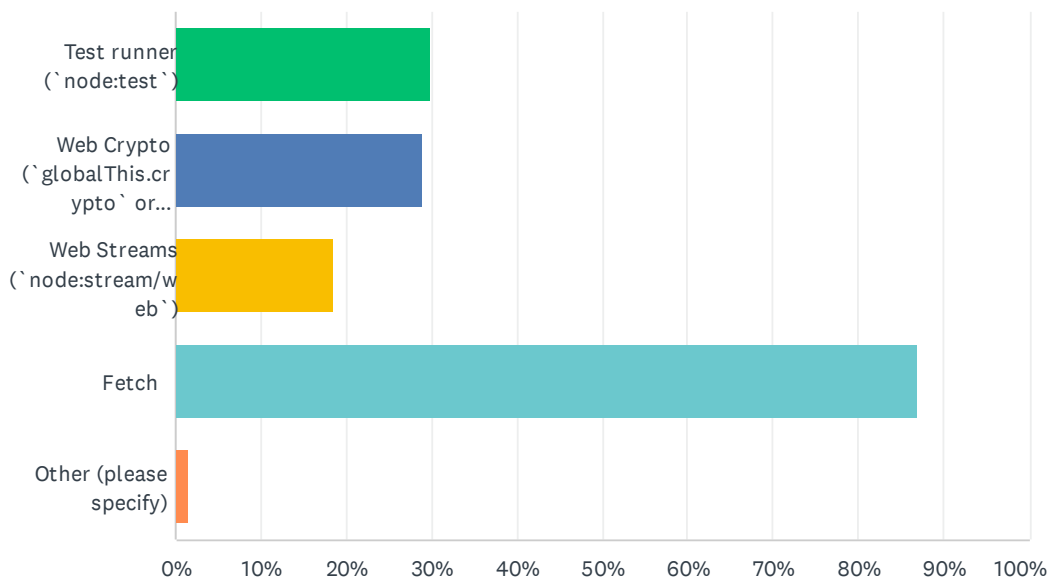


Node.js Next 10 Survey - 2024

ANSWER CHOICES	RESPONSES	
Corepack	28.64%	574
Async Hooks	32.19%	645
Permission model / Policies	6.19%	124
Single Executable Application	12.67%	254
Startup Snapshot	3.94%	79
Loader hooks (`--loader` or `module.register()`)	16.77%	336
Network import (`import 'http://...'`)	9.18%	184
WASI	6.19%	124
VM Modules (`--experimental-vm-modules`)	8.68%	174
Watch mode (`--watch`)	39.92%	800
WebSocket client	21.51%	431
Trace events (`--trace-event-categories` or `node:trace_events`)	5.34%	107
Dotenv (`--env-file`)	54.14%	1,085
Import attributes	17.47%	350
Other (please specify)	1.90%	38
Total Respondents: 2,004		

Q20 Are you using the following new stable features?

Answered: 2,121 Skipped: 899



ANSWER CHOICES	RESPONSES	
Test runner (<code>`node:test`</code>)	29.89%	634
Web Crypto (<code>`globalThis.crypto`</code> or <code>`crypto.webcrypto`</code>)	28.95%	614
Web Streams (<code>`node:stream/web`</code>)	18.58%	394
Fetch	87.03%	1,846
Other (please specify)	1.56%	33
Total Respondents: 2,121		

Q21 Do you encounter any recurring issues when using Node.js that you would like to share?

Answered: 471 Skipped: 2,549