

Report from the TC39 Secretariat

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What has happened lately? A few points:

Since the November 2022 TC39 Meeting

- *List of latest relevant TC39 and Ecma GA documents*
- *Request for short summaries for TC39 meeting contribs.*
- *Membership movements since last meeting*
- *Status of TC39 meeting participation*
- *TC39 standards download and access statistics for 2022*
- *Reminder: JTC1 Periodic Review of fast-tracked TC39 Standards*
- *Next TC39, GA and ExeCom meetings*
- *Some news related to the last Dec. 22 Ecma GA*

- **Ecma/TC39/2022/045 Agenda for the 93rd TC39 meeting, November 2022 (Rev. 1)**
- **Ecma/TC39/2022/046 Report from the TC39 Secretariat, November 2022**
- **Ecma/TC39/2022/047 Responses to the Ecma Contribution License Agreement (CLA), 25 November 2022**
- **Ecma/TC39/2022/048 Slides for the 93rd TC39 meeting, November 2022**
- **Ecma/TC39/2022/049 Venue for the 94th TC39 meeting, January 2023**
- **Ecma/TC39/2022/050 Minutes of the 93rd TC39 meeting, November 2022**
- **Ecma/TC39/2023/001 Agenda for the 94th TC39 meeting, January 2023**

- **Ecma/GA/2022/134** **Update on stenography services discussion from TC39**
- **Ecma/GA/2022/136** **Withdrawal of Paypal from Ecma International**
- **Ecma/GA/2022/138** **Minutes of the 124th General Assembly, Geneva, December 2022**
- **Ecma/GA/2022/140** **Minutes of the 93rd TC39 meeting, November 2022**

New relevant Ecma GA documents (2023)

- **Ecma/GA/2023/001** **Ecma Web statistics for 2022**
- **Ecma/GA/2023/002** **Agenda for the 94th TC39**
meeting, January 2023
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Why are these lists of interest to TC39 members?

(just for reading as reminder....)

- **GA documents provide info about general Ecma matters (policy matters, what other TCs do, liaison with other SDOs, etc.). Not automatically available to TC39 members. Ask your GA Representative for copy.**
- **Ecma TC39 documents are the “official” Ecma TC39 documentation within Ecma (both for “long-term archival” and as into to other Ecma TC and GA members). It is an overlap of what is also available on GitHub, therefore less practically relevant to TC39 members)**

Request for a Short Summary of the Meeting Contributions

- Actually it is a repeated complaint of non-TC39 Ecma Members about the length of TC39 Minutes (always over 150 pages – basically due to the attached Technical Notes)
- Separately we also publish in a separate ZIP file all the presentations of the TC39 meeting
- Would it be possible that for every presentation the author submits to the Ecma Secretariat (Patrick Charollais – Patrick@ecma-international.org and myself – Istvan@ecma-international.org a 1-2 paragraph summary of the contribution, that we would include in the main part of the minutes, with the “meeting resolution” for that topic? Reson: for a “fast reader” no need to dive into the “Tech Notes”.

- Formally approved by the December 2022 Ecma GA:
- ServiceNow (Associate)
- Shopify (Associate)
- Indeed (Ordinary)
- Vercel (SME)

- Withdrawal letter received in November 2022:
- PayPal





















Recent TC39 Meeting participation

Meeting 2019-2021	Total	Local	Remote	Companies
July 19 Redmond	76	46	30	24
October 19 New York	70	46	24	26
December San Francisco	73	52	21	28
February 20 Honolulu	58	27	31	23
April 20 remote	73	0	73	28
June 20 remote	66	0	66	21
July 20 remote	76	0	76	28
Sept 20 remote	66	0	66	25
November 20 remote	62	0	62	22
January 21 remote	95	0	95	27
March 21 remote	80	0	80	25
April 21 remote	81	0	81	26





















Recent TC39 Meeting participation (2)

Meeting 2021-2022	Total	Local	Remote	Companies
May 21 remote	74	0	74	27
July 21 remote	57	0	57	23
August 21 remote	80	0	80	28
October 21 remote	54	0	54	22
December 21 remote	69	0	69	24
January 22 remote	66	0	66	29
March 22 remote	92	0	92	30
June 22 remote	59	0	59	23
July 22 San Francisco "mixed"	62	19	43	24
September 22 remote	44	0	44	20
November 22 A Coruña "mixed"	62	19	43	23

Ecma Website page access 2021

Country ?	Sessions ?	↓
	1,012,063 % of Total: 100.00% (1,012,063)	
1.  China	166,038 (16.41%)	
2.  United States	136,708 (13.51%)	
3.  Russia	76,181 (7.53%)	
4.  India	70,580 (6.97%)	
5.  Brazil	49,911 (4.93%)	
6.  Germany	36,123 (3.57%)	
7.  Ukraine	35,888 (3.55%)	
8.  Japan	32,955 (3.26%)	
9.  South Korea	26,941 (2.66%)	
10.  United Kingdom	24,364 (2.41%)	
11.  France	21,014 (2.08%)	
12.  Canada	18,664 (1.84%)	
13.  Spain	14,810 (1.46%)	
14.  Poland	14,680 (1.45%)	
15.  Italy	12,168 (1.20%)	
16.  Belarus	11,901 (1.18%)	
17.  Hong Kong	11,852 (1.17%)	
18.  Mexico	10,535 (1.04%)	
19.  Taiwan	10,407 (1.03%)	
20.  Netherlands	9,858 (0.97%)	

Ecma Website page access 2022

Country ?	Sessions ?	
		1,065,910 % of Total: 100.00% (1,065,910)
1.  China		302,313 (28.36%)
2.  United States		120,059 (11.26%)
3.  India		70,564 (6.62%)
4.  Russia		64,929 (6.09%)
5.  Brazil		47,803 (4.48%)
6.  Germany		32,416 (3.04%)
7.  South Korea		26,962 (2.53%)
8.  Japan		26,827 (2.52%)
9.  Ukraine		23,666 (2.22%)
10.  United Kingdom		21,367 (2.00%)
11.  France		18,237 (1.71%)
12.  Australia		17,689 (1.66%)
13.  Canada		15,381 (1.44%)
14.  Poland		13,589 (1.27%)
15.  Spain		13,468 (1.26%)
16.  Hong Kong		11,851 (1.11%)
17.  Italy		10,649 (1.00%)
18.  Mexico		9,531 (0.89%)
19.  Turkey		9,453 (0.89%)
20.  Netherlands		9,021 (0.85%)

Ecma pdf Standards download 2021 (TC39 Standards = 58%)

		Total Standards 2021	87014
1	ECMA-262	ECMAScript® Language Specification	35507
2	ECMA-404	The JSON Data Interchange Syntax	13196
3	ECMA-376	Office Open XML File Formats	11124
4	ECMA-334	C# Language Specification	4452
5	ECMA-335	Common Language Infrastructure (CLI)	4391
6	ECMA-74	Measurement of Airborne Noise emitted by Information Technology and Telecommunications Equipment	1276
7	ECMA-388	Open XML Paper Specification	1104
8	ECMA-48	Control Functions for Coded Character Sets	1083
9	ECMA-402	ECMAScript® Internationalization API Specification	1074
10	ECMA-414	ECMAScript® Specification Suite	799

Ecma pdf Standards download 2022 (TC39 Standards = 55%)

		Total Standards 2022	84251
1	ECMA-262	ECMAScript® Language Specification	31960
2	ECMA-404	The JSON Data Interchange Syntax	13185
3	ECMA-376	Office Open XML File Formats	9032
4	ECMA-334	C# Language Specification	4542
5	ECMA-335	Common Language Infrastructure (CLI)	4502
6	ECMA-388	Open XML Paper Specification	1136
7	ECMA-74	Measurement of Airborne Noise emitted by Information Technology and Telecommunications Equipment	1060
8	ECMA-48	Control Functions for Coded Character Sets	1058
9	ECMA-402	ECMAScript® Internationalization API Specification	886
10	ECMA-418	Psychoacoustic metrics for ITT equipment — Part 1 (prominent discrete tones) and Part 2 (models based on human perception)	727
11	ECMA-119	Volume and File Structure of CDROM for Information Interchange	702
12	ECMA-408	Dart Programming Language Specification	669
13	ECMA-420	Device interface information for high-speed collation using holographic optical correlation	651
14	ECMA-370	TED - ECO declaration	634
15	ECMA-414	ECMAScript® Specification Suite	628

ECMA-262 html Standards Access Statistics 2021 and 2022

ST-262 9th edition	15802
ST-262 10th edition	19978
ST-262 11th edition	62778
ST-262 12th edition	44302

2021

ST-262 10th edition	12841
ST-262 11th edition	23405
ST-262 12th edition	52334
ST-262 13th edition	44281

2022

ECMA-402 html Standards Access Statistics 2021 and 2022

ST-402 5th edition	304
ST-402 6th edition	316
ST-402 7th edition	2450
ST-402 8th edition	1866

2021

ST-402 6th edition	93
ST-402 7th edition	351
ST-402 8th edition	1994
ST-402 9th edition	1874

2022

Dates and locations of future meetings

Dates	Location	Host
2023-01-30 to 2023-02-02	<i>Remote: "Boston"</i>	
2023-03-21 to 2023-03-23	Mixed: Seattle, US	F5
2023-05-15 to 2023-05-18	<i>Remote: "Chicago"</i>	
2023-07-11 to 2023-07-13	Bergen, Norway	University of Bergen
2023-09-26 to 2023-09-28	Tokyo, Japan	Bloomberg
2023-11-27 to 2023-11-30	<i>Remote: "SF"</i>	

- **6 meetings per-year**
- **3 remote, 3 hybrid (one US, one Europe, one Asia)**
- **Remote meetings are up to four days
...and sometimes we rejoice when we can end early
and claim a day back**
- **In-person meetings are three days
...to permit Monday/Friday as travel days**

- **The following pages were presented at the TC39 meeting. These are here just as reminder, since the voting is still going on and is relevant.....**

- **JTC1 requires that every 5 years a Periodic Review of Fast-Tracked Standard takes place**
- **TC39 is involved in ECMA-404 (JSON = ISO/IEC 21778:2017) and ECMA-414 (ECMAScript® specification suite. 3rd edition, December 2017; ISO/IEC 22275: 2018)**
- **ECMA-404 is a very stable standard that actually would be ideal for JTC1 “stabilization”. Never a change...**
- **ECMA-414 contains “undated” normative references to ECMA-262 and ECMA-402. “Undated” means that it solves the problem of too “fast” and “frequent” updates of ES202x standards.**

- **In JTC1 SC22 is responsible to carry out the 5 years a Periodic Review of the Ecma TC39 standards**
- **ISO/IEC JTC 1/SC 22 Programming languages, their environments and system software interfaces is a standardization subcommittee of ISO/IEC JTC 1 that develops and facilitates standards within the fields of programming languages, their environments and system software interfaces.**
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- **Membership of SC22:**
- **Secretariat: ANSI (USA)**
- **The 23 "P" (participating) members of ISO/IEC JTC 1/SC 22 are: Austria, Bulgaria, Canada, China, Czech Republic, Denmark, Finland, France, Germany, Israel, Italy, Japan, Kazakhstan, Republic of Korea, Netherlands, Poland, Russian Federation, Slovenia, Spain, Switzerland, Ukraine, United Kingdom, and United States of America. They are obliged to vote.**
- **SC22 has also 21 "O" (observing) members. They may vote.**
- **Voting rule: Simple majority of those who have voted**

- **Structure: SC 22 has had a total of 24 working groups (WGs), many have been disbanded when the focus of the working group was no longer applicable to the current standardization needs.**
- **ISO/IEC JTC 1/SC 22 is currently made up of eight (8) active working groups: COBOL, Fortran, Ada, C, Prolog, C++, Programming Language Vulnerabilities, Linux Standard Base (LSB)**
- **ECMAScript in the Plenary only?**
- **We need lobbying where ever the vote on the periodic review takes place.**
- **Liaison person to SC22: Rex Jaeschke**

- ☐ *GA 125: 27-28 June 2023 (Tokyo, Japan, hosted by Amethystum or Geneva as a backup, TBD)*
- ☐ *GA 126: 5-6 December 2023 (US, TBD)*

ExeCom venue and dates

- ☐ *19-20 April 2023, Geneva, starting at 9:00. TC Chairs are invited.*
- ☐ *5-6 October 2023, Geneva, starting at 9:00. TC Chairs are invited.*

- **Appointment of New Ecma Secretary General
(Selection Committee candidate: Ms. Samina Husain)**
- **2023 Ecma Management and ExeCom approved**
 - **As President: Jochen Friedrich (IBM)**
 - **As Vice-President: Daniel Ehrenberg (Bloomberg)**
 - **As Treasurer: Luoming Zhang (Huawei)**
 - **ExeCom: Michael Saboff (Apple) - Chair
Waldemar Horwat (Google)
Touradj Ebrahimi (EPFL)
Peter Hoddie (Moddable)**
- **Congratulations to all !!!!**

- **Thank You for your attention!**



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