



Ecma/TC39/2025/049
(Rev. 1 – 10 November 2025)

TC
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Report from the TC39 Secretariat

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2025-11-18

111th TC39 Meeting: Tokyo

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Overview

- Approvals for GA December
 - New standards and next editions
 - New TC
- Ongoing:
 - Consideration for participation at FOSDEM and OpenSourceWeek EU
 - JSON Schema
- Corrigenda TC39 standards 2024-2025 Editions (Copyright)
- Annex



Drafts for Approval:

- TC26 ECMA-74 22nd edition: Measurement of Airborne Noise emitted by Information Technology and Telecommunications Equipment
- TC26 ECMA-425 2nd edition: Statistical background correction for information technology and telecommunications equipment noise measurements
- TC31 ECMA-119 6th edition: Volume and File Structure of CDROM for Information Interchange
- TC54 ECMA-424 2nd edition: CycloneDX Bill of materials specification
- TC54 New standard on Package-URL (PURL) specification
- TC54 New standard on Common Lifecycle Enumeration (CLE) specification
- TC55 New standard on Minimum common web API specification
- TC56 New standard on Natural Language Interaction Protocol (NLIP)
- TC56 New Standard on Binding of the Natural Language Interaction Protocol (NLIP) over HTTP/HTTPS
- TC56 New standard on Binding of the NLIP over WebSocket
- TC56 New Standard on Binding of the Natural Language Interaction Protocol (NLIP) over AMQP
- TC56 New Standard on Security profiles for Natural Language Interaction Protocol (NLIP)
- TC56 New TR on Explanatory guide to the Natural Language Interactive Protocol (NLIP)

New TC: Standardization of the High-Level Shading Language (HLSL)

Scope:

Standardization of the High-Level Shading Language (HLSL) as a cross platform and vendor-neutral programming language for data-parallel programming. This includes language syntax, semantics, libraries, and complementary technologies that support the language. This work will be chartered under the Ecma Royalty-Free Patent Policy.

Program of work:

- To develop the HLSL language standard and standard libraries for HLSL.
- Upon completion of item 1, to investigate the future direction of the HLSL language standard.
- To evaluate and consider proposals for future language and library features.
- To develop test suites to verify the correct implementation of standards produced by this task group.
- To establish and maintain liaison with appropriate other Ecma TCs and TGs, and with other standards bodies, industry consortiums, and developer communities including, but not limited to, ISO/IEC JTC1/SC22, The Khronos Group, and The LLVM Project.

Contacts:

Chair: Chris Bieneman (Microsoft), Vice-Chair: Farzon Lotfi (Microsoft)

Secretary: TBD and Samina Husain (Ecma International)

Supporting members:

- *Microsoft, Meta, Google, Apple, Sony*
- *University of California Santa Cruz*

FOSDEM 2026 – *under discussion*

- Ecma session
- TC54, TC39

Discussion Status

- Ongoing with JSON Schema community on Slack
- Ongoing with all contributors to receive their agreement of Ecma IPR
- Ecma with IETF to align with the needs of the JSON Schema community



Corrigenda TC39 standards 2024-2025 Editions

An error was discovered with the “copyright” notice used in both:

- ECMA-262 15th and 16th edition – ECMAScript® 2025 language specification
- ECMA-402 11th and 12th edition – ECMAScript® 2025 internationalization API specification

The “Alternative copyright” notice should have been used.

The error and correction has been noted in the October ExeCom meeting.

The corrigendum has been uploaded on the TC39 folder with the correction:

COPYRIGHT NOTICE

With:

ALTERNATIVE COPYRIGHT NOTICE AND COPYRIGHT LICENSE

The next step is for the TC to vote on the approval of the correction.



Ecma Rules

7.2 Operating procedures - Rules and recommendations for the TCs:

- 7.2.1 Members of TCs are representatives of Ecma members.
- 7.2.2 Ecma members are entitled to send one or more representatives to any TC.
- 7.2.3 **Voting on any matter shall be by simple majority of Ecma TC members. Each Ecma member has only one vote.**
- 7.2.4 It is recommended that in the course of its ordinary work the TC should not use voting unless it is impossible to make progress without a vote.
- 7.2.5 **One-time visitors** can attend a meeting only at the invitation of the SG at the request of the TC. They have **no voting rights**.
- 7.2.6 Individuals can participate in the work of a TC as invited experts. They participate only at the invitation of the SG at the request of the TC. They have **no voting rights**. **Invited experts** shall comply with the Ecma policies and sign the appropriate form before participating. The invitation to participate may be withdrawn by the SG at any time.

Ecma By-laws

9.5 Publication of Standards and Technical Reports

- A Corrigendum contains corrections to an already published document and is published as a separate document that contains only corrections. A Corrigendum may be prepared and approved by a TC when a Standard or a Technical Report contains errors which makes it unusable as published. **A Corrigendum shall be approved by the Technical Committee members either at a meeting or by a postal ballot of a minimum of three weeks.** The Executive Committee shall be informed before the commencement of the approval procedure. The Corrigendum shall be incorporated in a revision of the Standard or Technical Report.

Annex slides:

- Code of Conduct
- Invited Expert
- List of latest relevant Ecma TC39 and GA documents
- Next TC39, GA and ExeCom meeting dates



To ensure a fair and balanced standards process, to avoid communication issues and unhappiness, and to promote inclusiveness.

This Code of Conduct is enforced within all spaces managed by TC39. This includes chat rooms and forums moderated by TC39, issue trackers on projects hosted by TC39, and TC39 events and meetings.

We are a community of professionals, and we conduct ourselves professionally. Be kind to others. Do not insult or put down other participants. Harassment and other exclusionary behaviour are not acceptable.

- *Be respectful*
- *Be friendly and patient*
- *Be inclusive*
- *Be considerate*
- *Be careful in the words that you choose*

When we disagree, try to understand why



- *Ecma Invited Experts shall be a very small number of experts, who are needed to complete the Ecma work and whose contributions are regarded as exceptionally important. They participate free of charge in the work of a TC (including face-to-face meetings) on invitation by Ecma in an Ecma TC and may contribute to an Ecma standard.*
- *With Ecma Invited Experts there is no intention whatsoever to introduce a non-paying individual membership category. Therefore, Invited Experts in Ecma work should be regarded as exceptional and rare. It is encouraged that instead of Invited Experts the company / organization with whom the invited expert is affiliated with (if he has such relationship) becomes Ecma Member itself.*

From Ecma Rules 6.2.6

- *Individuals can participate in the work of a TC as invited experts. They participate only at the invitation of the SG at the request of the TC. **They have no voting rights.** Invited experts shall comply with the Ecma policies and sign the appropriate form before participating. The invitation to participate may be withdrawn by the SG at any time.*

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Lists of Ecma documents of interest to TC39

(As a reminder....)

- GA documents provide general Ecma information (policy matters, activities of other TCs, liaison with other SDOs, etc.).
- GA documents are 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 information to other Ecma TC and GA members).
- These are linked to Ecma (includes new Ecma members in TC39, status of ES20xx approval in Ecma etc.).

There are overlaps to what is also available on TC39 GitHub



- Ecma/TC39/2025/036 TC39 RF TC form signed by EPFL
- Ecma/TC39/2025/037 Agenda for the 110th TC39 virtual meeting, September 2025 (Rev. 1)
- Ecma/TC39/2025/038 Report from the TC39 Secretariat, September 2025
- Ecma/TC39/2025/039 Responses to the Ecma Contribution License Agreement (CLA), 19 September 2025
- Ecma/TC39/2025/040 Slides and technical notes for the 110th TC39 virtual meeting, September 2025 (Rev. 1)
- Ecma/TC39/2025/041 TC39 chair group's report to the ExeCom, October 2025
- Ecma/TC39/2025/042 Corrigendum 1 to ECMA-262 16th edition (correction of the copyright notice)
- Ecma/TC39/2025/043 Corrigendum 1 to ECMA-402 12th edition (correction of the copyright notice)
- Ecma/TC39/2025/044 Minutes of the 110th TC39 virtual meeting, September 2025
- Ecma/TC39/2025/045 Venue for the 111th TC39 meeting, Tokyo, November 2025
- Ecma/TC39/2025/046 Agenda for the 111th TC39 meeting, Tokyo, November 2025
- Ecma/TC39/2025/047 Final corrigendum 1 to ECMA-262 and ECMA-402 for 2024 & 2025
- Ecma/TC39/2025/048 TC39 RF TC form signed by Socket

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- Ecma/GA/2025/115 Minutes of the TC56 teleconference of 26 August 2025
- Ecma/GA/2025/116 TC39 RF TC form signed by EPFL
- Ecma/GA/2025/117 Minutes of the TC55 teleconference of 4 September 2025
- Ecma/GA/2025/118 Ecma International Liaison highlights to JTC 1 (Rev. 1)
- Ecma/GA/2025/119 Agenda for the 110th TC39 virtual meeting, September 2025 (Rev. 1)
- Ecma/GA/2025/120 Minutes of the TC53 teleconference of 17 September 2025
- Ecma/GA/2025/121 Agenda for the TC45 teleconference of 20 November 2025
- Ecma/GA/2025/122 Withdrawal of HP Inc.
- Ecma/GA/2025/123 Opt-out review period announcement for TC54 standards
- Ecma/GA/2025/124 First & final draft ECMA-424 2nd edition
- Ecma/GA/2025/125 First & final draft Package-URL (PURL) specification
- Ecma/GA/2025/126 First & final draft Common Lifecycle Enumeration (CLE) specification
- Ecma/GA/2025/127 Opt-out review period announcement for five draft standards on NLIP
- Ecma/GA/2025/128 Final draft standard on Natural Language Interaction Protocol (NLIP)
- Ecma/GA/2025/129 Final draft standard on Binding of the NLIP over HTTP/HTTPS
- Ecma/GA/2025/130 Final draft TR on Explanatory guide to the Natural Language Interactive Protocol (NLIP)
- Ecma/GA/2025/131 Final draft standard on Binding of the NLIP over WebSocket
- Ecma/GA/2025/132 Final standard on Binding of the NLIP over AMQP
- Ecma/GA/2025/133 Final standard on Security profiles for NLIP
- Ecma/GA/2025/134 Minutes of the 129th General Assembly, Geneva, June 2025

- Ecma/GA/2025/135 Opt-out review period announcement for the new standard "Minimum common web API specification"
- Ecma/GA/2025/136 Final draft ECMA-74 22nd edition
- Ecma/GA/2025/137 Final draft ECMA-425 2nd edition
- Ecma/GA/2025/138 Final draft ECMA-119 6th edition
- Ecma/GA/2025/139 Final draft standard on Minimum common web API specification
- Ecma/GA/2025/140 Final draft ECMA-418-1 4th edition
- Ecma/GA/2025/141 Final drafts submitted to the 130th General Assembly, Geneva, December 2025 (Rev. 1)
- Ecma/GA/2025/142 Minutes of the 49th meeting of TC51, Tokyo, 25 September 2025
- Ecma/GA/2025/143 Minutes of the TC56 teleconference of 2 October 2025
- Ecma/GA/2025/144 Minutes of the TC54 teleconference of 18 September 2025
- Ecma/GA/2025/145 Minutes of the TC55 teleconference of 18 September 2025
- Ecma/GA/2025/146 Minutes of the TC55 teleconference of 2 October 2025
- Ecma/GA/2025/147 Minutes of the 140th meeting of TC31, Tokyo, September 2025
- Ecma/GA/2025/148 Minutes of the 110th TC39 virtual meeting, September 2025
- Ecma/GA/2025/149 2025 Liaison report to CISPR
- Ecma/GA/2025/150 Agenda for the 134th virtual meeting of TC20, 27 October 2025
- Ecma/GA/2025/151 Liaison statement to TC51 on iTAP access layer protocol (ITMA TEC WG)
- Ecma/GA/2025/152 Venue for the 130th General Assembly, Geneva, December 2025

- Ecma/GA/2025/153 Minutes of the TC51 teleconference of 16 October 2025
- Ecma/GA/2025/154 Minutes of the TC53 teleconference of 15 October 2025
- Ecma/GA/2025/155 Officers for 2026
- Ecma/GA/2025/156 Minutes of the TC38 teleconference of 27 October 2025
- Ecma/GA/2025/157 Agenda for the 111th TC39 meeting, Tokyo, November 2025
- Ecma/GA/2025/158 Proposed clarification to the Ecma text copyright policy
- Ecma/GA/2025/159 Agenda for the 50th meeting of TC51, Tokyo, 26 November 2025
- Ecma/GA/2025/160 Agenda for the 141st meeting of TC31, Tokyo, November 2025
- Ecma/GA/2025/161 TC39 RF TC form signed by Socket

TC39 Plenary schedule 2026

Mtg num	First day	Last day	Location	Time zone	Host
112	2026-01-20	2026-01-22	Remote 	America/Port-au-Prince (UTC -5)	n/a
113	2026-03-10	2026-03-12	New York City 	America/New_York (UTC -4)	Google
114	2026-05-19	2026-05-21	Amsterdam 	Europe/Amsterdam (UTC +2)	JetBrains
115	2026-07-20	2026-07-23	Remote 	America/Eirunepe (UTC -5)	n/a
116	2026-09-29	2026-10-01	Tokyo 	Asia/Tokyo (UTC +9)	Sony Interactive Entertainment
117	2026-11-30	2026-12-03	Remote 	Pacific/Easter (UTC -6)	n/a

- 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



General Assembly:

- **GA 130:** **10-11 December 2025** (Geneva, Switzerland)
- **GA 131:** **29-30 June 2026** (Geneva, Switzerland)
- **GA 132:** **8-9 December 2026** (TBD)

ExeCom:

- **22-23 April 2026**, (Geneva, Switzerland)
- **7-8 October 2026**, (Geneva, Switzerland)

Starting at 09:00. TC Chairs are invited to report on their activities.

Thank you

