ECMAScript Media Types Updates
draft-bfarias-javascript-mjs-01

Abstract

This document proposes updates to the ECMAScript media types, superseding the existing registrations for "application/javascript" and "text/javascript" by adding an additional extension and removing usage warnings. This document updates RFC4329, "Scripting Media Types".

Note to Readers

The issues list for this draft can be found at https://github.com/bmeck/I-D/labels/javascript-mjs.

The most recent (often, unpublished) draft is at https://github.com/bmeck/I-D/tree/master/javascript-mjs.

Recent changes are listed at https://github.com/bmeck/I-D/commits/master/javascript-mjs.

Status of This Memo

This Internet-Draft is submitted in full conformance with the provisions of BCP 78 and BCP 79.

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This Internet-Draft will expire on February 24, 2018.
1. Introduction

This document updates the existing media types for the ECMAScript programming language. It supersedes the media types registrations in [RFC4329] for "application/javascript" and "text/javascript".

2. Background

In order to formalize support for modular programs [ECMA-262] now defines two top-level goal symbols for the ECMAScript grammar. This means that (in the absence of additional information) there are two possible interpretations for any given ECMAScript Source Text. The TC39 standards body for ECMAScript has determined that media types are outside of their scope of work [TC39-MIME-ISSUE].

It is not possible to fully determine if a Source Text of ECMAScript is meant to be parsed in the Module or Script grammar goals based upon content alone. Therefore, scripting environments must use out of band information in order to determine what goal a Source Text
should be treated as. To this end some scripting environments have chosen to adopt a new file extension of .mjs for determining the goal of a given Source Text.

3. Notational Conventions

The key words "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT", "SHOULD", "SHOULD NOT", "RECOMMENDED", "MAY", and "OPTIONAL" in this document are to be interpreted as described in [RFC2119].

4. Registration

The ECMAScript media types are to be updated to point to a non-vendor specific standard undated specification of ECMAScript. In addition, a new file extension of .mjs is to be added to the list of file extensions with the restriction that it must correspond to the Module grammar of [ECMA-262]. Finally, the [HTML] specification is using text/javascript as the default media type of ECMAScript when preparing script tags; therefore, text/javascript has been moved intended usage from OBSOLETE to COMMON.

4.1. text/javascript

Type name: text

Subtype name: javascript

Required parameters: none

Optional parameters: charset, see section 4.1 of [RFC4329].

Encoding considerations: The same as the considerations in section 3.1 of [RFC3023].

Security considerations: See section 5 of [RFC4329].

Interoperability considerations: See notes in various sections of [RFC4329]. This media type does not specify the grammar of [ECMA-262] used.

Published specification: [[RFCXXXX]]

Applications which use this media type: Script interpreters as discussed in [RFC4329].

Additional information:

Magic number(s): n/a
File extension(s): .js, .mjs

Macintosh File Type Code(s): TEXT

Person & email address to contact for further information: See Author's Address section.

Intended usage: COMMON

Restrictions on usage: The file extension .mjs must be parsed using the Module grammar of [ECMA-262]

Author: See Author's Address section.

Change controller: IESG <iesg@ietf.org>

4.2. application/javascript

Type name: application

Subtype name: javascript

Required parameters: none

Optional parameters: charset, see section 4.1 of [RFC4329].

Encoding considerations: The same as the considerations in section 3.2 of [RFC3023].

Security considerations: See section 5 of [RFC4329].

Interoperability considerations: See notes in various sections of [RFC4329]. This media type does not specify the grammar of [ECMA-262] used.

Published specification: [[RFCXXXX]]

Applications which use this media type: Script interpreters as discussed in [RFC4329].

Additional information:

Magic number(s): n/a

File extension(s): .js, .mjs

Macintosh File Type Code(s): TEXT
Person & email address to contact for further information: See Author's Address section.

Intended usage: COMMON

Restrictions on usage: The file extension .mjs must be parsed using the Module grammar of [ECMA-262]

Author: See Author's Address section.

Change controller: IESG <iesg@ietf.org>.

5. References

5.1. Normative References


5.2. Informative References


Appendix A. Acknowledgements

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