





**Standard**

**ECMAScript  
Internationalization  
API Specification**



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*that comment on or otherwise explain it or assist in its implementation*

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, 5.1 edition or successor

ISO/IEC 10646:2003: Information Technology – Universal Multiple-Octet Coded Character Set (UCS) plus Amendment 1:2005 and Amendment 2:2006, plus additional amendments and corrigenda, or successor

ISO 4217:2008, Codes for the representation of currencies and funds, or successor

The Unicode Standard, Version 5.0, or successor

Unicode Technical Standard 35, Unicode Locale Data Markup Language, version 2.0.1 or successor

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RFC 5646, Tags for Identifying Languages, or successor  
RFC 4647, Matching of Language Tags, or successor

IETF RFC 6067, BCP 47 Extension U, or successor

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## LocaleList Objects

LocaleList objects represent lists of language tags identifying locales. They can be used in two ways:

To represent a language priority list, as described in RFC 4647, section 2.3, or successor. Algorithms interpreting a LocaleList object in this sense treat the list as ordered in descending order of priority.

To represent a set of locales, such as those supported by an application or by the implementation of an object described in this specification. Algorithms interpreting a LocaleList object in this sense treat the list as unordered.

LocaleList objects have the properties of a generic array-like object: A length property and other properties whose names are array indices, as defined in ES5, 15.4. The value of the length property is numerically greater than the name of every property inserted during construction whose name is an array index. As LocaleList objects are extensible, this invariant is not guaranteed to be maintained after construction.

The LocaleList constructor is a property of the Intl object.

### The Intl.LocaleList Constructor

#### Initializing an Object as a LocaleList

The abstract operation InitializeLocaleList accepts the argument *localeList*, which must be an object, and the optional argument *locales*. It initializes *localeList* as a LocaleList object by taking the following steps:

If *locales* is not provided or is **undefined**, then

Let *seen* be a new List containing the String returned by the DefaultLocale abstract operation.

Else

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If the result of calling the abstract operation `IsStructurallyValidLanguageTag`, passing *tag* as the argument, is **false**, then throw a **RangeError** exception. Let *tag* be the result of calling the abstract operation `CanonicalizeLanguageTag`, passing *tag* as the argument.

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Let *index* be 0.  
Repeat for each element *tag* of *seen*, in list order  
  Call the `[[DefineOwnProperty]]` internal method of *localeList* with arguments `Tostring(index)`, Property Descriptor `{[[Value]]: tag, [[Writable]]: false, [[Enumerable]]: true, [[Configurable]]: false}`, and **true**.  
  Increase *index* by 1.  
Call the `[[DefineOwnProperty]]` internal method of *localeList* with arguments **"length"**, Property Descriptor `{[[Value]]: index, [[Writable]]: false, [[Enumerable]]: false, [[Configurable]]: false}`, and **true**.  
Set the `[[initializedLocaleList]]` internal property of *localeList* to **true**.

NOTE Non-normative summary: The function interprets the *locales* argument as an array and copies its elements into *localeList*, validating the elements as structurally valid language tags and canonicalizing them, and omitting duplicates. It tags this object as an initialized locale list.

NOTE If an object has been previously initialized using the `Intl.LocaleList` constructor, and the canonicalization of the previously used *locales* differs from the canonicalization of the *locales* used now, then either step 4.a or step 5 will fail.

### The Intl.LocaleList Constructor Called as a Function

When `Intl.LocaleList` is called as a function rather than as a constructor, it accepts the optional argument *locales* and takes the following steps:

If **this** is the `Intl` object or **undefined**, then  
  Return the result of creating a new object as if by the expression `new Intl.LocaleList(locales)`, where `Intl.LocaleList` is the standard built-in constructor defined in 9.1.3.

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Call the `InitializeLocaleList` abstract operation with arguments *obj* and *locales*.  
Return *obj*.

### The Intl.LocaleList Constructor Used in a new Expression

When `Intl.LocaleList` is called as part of a **new** expression, it is a constructor. It accepts the optional argument *locales*, and initializes the properties of the newly constructed object by calling the `InitializeLocaleList` abstract operation (9.1.1), passing the newly constructed object and *locales* as arguments.

The `[[Prototype]]` internal property of the newly constructed object is set to the original `Intl.LocaleList` prototype object, the one that is the value of `Intl.LocaleList.prototype` (9.2.1).

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### Properties of the Intl.LocaleList Constructor

Besides the internal properties and the `length` property (whose value is 1), the `Intl.LocaleList` constructor has the following properties:



## Intl.LocaleList.prototype

The value of Intl.LocaleList.prototype is the built-in Intl.LocaleList prototype object (9.3).

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### Properties of the Intl.LocaleList Prototype Object

The Intl.LocaleList prototype object is itself an Intl.LocaleList instance as specified in 9.4, whose properties are set as if it had been constructed by the expression `new Intl.LocaleList([])`.

#### Intl.LocaleList.prototype.constructor

The initial value of Intl.LocaleList.prototype.constructor is the built-in Intl.LocaleList constructor.

### Properties of Intl.LocaleList Instances

Intl.LocaleList instances inherit properties from the Intl.LocaleList prototype object.

Intl.LocaleList instances and other objects that have been successfully initialized as a LocaleList have an `[[initializedLocaleList]]` internal property whose value is **true**.

Intl.LocaleList instances and other objects that have been successfully initialized as a LocaleList also have the following properties.

#### length

The length property of an Intl.LocaleList object is a data property whose value is the number of array index properties added to the object by the InitializeLocaleList abstract operation.

The length property has the attributes { `[[Writable]]`: false, `[[Enumerable]]`: false, `[[Configurable]]`: false }.

#### Properties With Array Index Names

A LocaleList object has properties whose names are array indices from 0 to (length - 1). The value of each of these properties is a String value representing a structurally valid language tag. The values are unique within a LocaleList object.

These properties initially have the attributes { `[[Writable]]`: false, `[[Enumerable]]`: true, `[[Configurable]]`: false }.

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If  $index \neq -1$

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$availableIndex \neq -1$ , then

Let

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If `requestedLocales` is **undefined**, then

Let `requestedLocales` be the result of creating a new LocaleList object as if by the expression `new Intl.LocaleList()` where `Intl.LocaleList` is the standard built-in constructor defined in 9.1.3.

Else

Let *requestedLocales* be `ToObject(requestedLocales)`.

If *requestedLocales* does not have an `[[initializedLocaleList]]` internal property with value **true**, then

Let *requestedLocales* be the result of creating a new `LocaleList` object as if by the expression `new Intl.LocaleList(requestedLocales)`, where `Intl.LocaleList` is the standard built-in constructor defined in 9.1.3.

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Let *requestedLocales* be `ToObject(requestedLocales)`.

If *requestedLocales* does not have an `[[initializedLocaleList]]` internal property with value **true**, then

Let *requestedLocales* be a new `LocaleList` object created as if by the expression `new`

`Intl.LocaleList(requestedLocales)`, where `Intl.LocaleList` is the standard built-in constructor defined in 9.1.3.

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When the `GetGetOption` abstract operation is called with argument *options*, the following steps are taken.

Let *getOption* be a function which, when called with arguments *property*, *type*, *values*, and *fallback*, takes the following steps:

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the result of calling the `indexOf` method of

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the result of calling the `indexOf` method of

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the result of calling the `indexOf` method of

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Return *getOption*.

## GetGetNumberOption

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GetGetNumberOption

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GetGetNumberOption

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When the `GetGetNumberOption` abstract operation is called with argument *options*, the following steps are taken.

Let *getNumberOption* be a function which, when called with arguments *property*, *minimum*, *maximum*, and *fallback*, takes the following steps:

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## 1.2 The Intl.Collator Constructor

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## 1.1 The Intl.Collator Constructor

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argument

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argument

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argument

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argument

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Let *getOption* be the result of calling the GetGetOption abstract operation with argument *options*.

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Let *getOption* be the result of calling the GetGetOption abstract operation with argument *options*.

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Let *getOption* be the result of calling the GetGetOption abstract operation with argument *options*.

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Let *getOption* be the result of calling the GetGetOption abstract operation with argument *options*.

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If *u*  
.

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If *u*

<sup>2</sup>.

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*getOption*

<sup>3</sup>.

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*getOption*

<sup>4</sup>.

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*getOption*

<sup>5</sup>.

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*getOption*

<sup>6</sup>.

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*getOption*

<sup>a</sup>.

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*getOption*

<sup>b</sup>.

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*getOption*

<sup>c</sup>.

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*getOption*

<sup>d</sup>.

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properties of the newly constructed object by calling the InitializeCollator abstract operation (11.1.1), passing the newly constructed object, *localeList*, and *options* as arguments

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The `[[Extensible]]` internal property of the newly constructed object is set to **true**.

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is

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is

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Compare

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Compare

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If this Collator does not have an `[[initializedCollator]]` internal property with value **true**, then throw a **TypeError** exception.

If the `[[boundCompare]]` internal property of this Collator is **undefined**, then:

Let *that* be **this**.

Let  $bc$  be a function that takes the arguments  $x$  and  $y$  and performs the following steps:  
Return the result of calling the Compare abstract operation with arguments  $that$ ,  $x$ ,  
and  $y$ .

Set the `[[boundCompare]]` internal property of this Collator to  $bc$ .  
Return the value of the `[[boundCompare]]` internal property of this Collator.

The `[[Set]]` attribute is undefined.

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value of the `[[Get]]` attribute is a

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value of the `[[Get]]` attribute is a

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"

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Algorithm code, English (UK)

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Algorithm code, English (UK)

<b>Page 16: [69] Formatted</b>	<b>Norbert Lindenberg</b>	<b>6/28/12 13:20</b>
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Algorithm code, English (UK)

<b>Page 17: [70] Deleted</b>	<b>Norbert Lindenberg</b>	<b>6/28/12 13:20</b>
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### The Intl.NumberFormat Constructor

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argument

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argument

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English (UK)

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the optional arguments *localeList* and

<b>Page 17: [73] Deleted</b>	<b>Norbert Lindenberg</b>	<b>6/28/12 13:20</b>
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the optional arguments *localeList* and

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Let *getOption* be the result of calling the `GetOption` abstract operation with argument *options*.

Let *getOption* be the result of calling the `GetGetNumberOption` abstract operation with argument *options*.

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<i>getOption</i> <sub>1</sub>		
<b>Page 17: [75] Deleted</b>	<b>Norbert Lindenberg</b>	<b>6/28/12 13:20</b>
<i>getOption</i> <sub>2</sub>		
<b>Page 17: [75] Deleted</b>	<b>Norbert Lindenberg</b>	<b>6/28/12 13:20</b>
<i>getOption</i> <sub>3</sub>		
<b>Page 17: [76] Formatted</b>	<b>Norbert Lindenberg</b>	<b>6/28/12 13:20</b>
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Algorithm variable, English (UK)		
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Algorithm variable, English (UK)		
<b>Page 17: [79] Deleted</b>	<b>Norbert Lindenberg</b>	<b>6/28/12 13:20</b>
the <i>localeList</i> argument		
<b>Page 17: [79] Deleted</b>	<b>Norbert Lindenberg</b>	<b>6/28/12 13:20</b>
the <i>localeList</i> argument		
<b>Page 17: [80] Formatted</b>	<b>Norbert Lindenberg</b>	<b>6/28/12 13:20</b>
Algorithm variable, English (UK)		
<b>Page 17: [81] Deleted</b>	<b>Norbert Lindenberg</b>	<b>6/28/12 13:20</b>
<i>getOption</i> <sub>6</sub>		
<b>Page 17: [81] Deleted</b>	<b>Norbert Lindenberg</b>	<b>6/28/12 13:20</b>
<i>getOption</i> <sub>7</sub>		
<b>Page 17: [82] Formatted</b>	<b>Norbert Lindenberg</b>	<b>6/28/12 13:20</b>
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Default Paragraph Font		
<b>Page 17: [83] Deleted</b>	<b>Norbert Lindenberg</b>	<b>6/28/12 13:20</b>
<i>getOption</i> <sub>8</sub>		
<b>Page 17: [83] Deleted</b>	<b>Norbert Lindenberg</b>	<b>6/28/12 13:20</b>
<i>getOption</i> <sub>9</sub>		
<b>Page 17: [83] Deleted</b>	<b>Norbert Lindenberg</b>	<b>6/28/12 13:20</b>
<i>getOption</i>		



<sup>10.</sup>  
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Algorithm keyword, English (UK)

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*getOption*

<sup>11.</sup>  
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*getOption*

<sup>12.</sup>  
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English (UK)

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equal to

<sup>13.</sup>  
**Page 17: [88] Deleted**      **Norbert Lindenberg**      **6/28/12 13:20**  
equal to

<sup>14.</sup>  
**Page 18: [89] Deleted**      **Norbert Lindenberg**      **6/28/12 13:20**  
*getOption*

<sup>15.</sup>  
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*getOption*

<sup>16.</sup>  
**Page 18: [90] Deleted**      **Norbert Lindenberg**      **6/28/12 13:20**  
equal to

<sup>17.</sup>  
**Page 18: [90] Deleted**      **Norbert Lindenberg**      **6/28/12 13:20**  
equal to

<sup>18.</sup>  
**Page 18: [90] Deleted**      **Norbert Lindenberg**      **6/28/12 13:20**  
equal to

<sup>19.</sup>  
**Page 18: [91] Deleted**      **Norbert Lindenberg**      **6/28/12 13:20**  
*getOption*

<sup>20.</sup>  
**Page 18: [91] Deleted**      **Norbert Lindenberg**      **6/28/12 13:20**  
*getOption*

<sup>21.</sup>  
**Page 18: [92] Deleted**      **Norbert Lindenberg**      **6/28/12 13:20**  
*getOption*

<sup>a.</sup>  
**Page 18: [92] Deleted**      **Norbert Lindenberg**      **6/28/12 13:20**  
*getOption*

<sup>b.</sup>  
**Page 18: [93] Deleted**      **Norbert Lindenberg**      **6/28/12 13:20**  
*getOption*

<sup>c.</sup>  
**Page 18: [93] Deleted**      **Norbert Lindenberg**      **6/28/12 13:20**  
*getOption*

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*getNumberOption*

<b>Page 21: [94] Deleted</b>	<b>Norbert Lindenberg</b>	<b>6/28/12 13:20</b>
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If this NumberFormat object does not have an `[[initializedNumberFormat]]` internal property with value **true**, then throw a **TypeError** exception.

Let *x* be `ToNumber(value)`.

<b>Page 22: [95] Deleted</b>	<b>Norbert Lindenberg</b>	<b>6/28/12 13:20</b>
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result of calling the `indexOf` method of *m* with argument `" . "`.

If *period* > 0

<sup>1.</sup>

<b>Page 25: [96] Deleted</b>	<b>Norbert Lindenberg</b>	<b>6/28/12 13:20</b>
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*getOption*

<sup>1.</sup>

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*getOption*

<sup>2.</sup>

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*getOption*

<sup>3.</sup>

<b>Page 25: [96] Deleted</b>	<b>Norbert Lindenberg</b>	<b>6/28/12 13:20</b>
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*getOption*

<sup>4.</sup>

<b>Page 25: [97] Deleted</b>	<b>Norbert Lindenberg</b>	<b>6/28/12 13:20</b>
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the *localeList* argument

<sup>5.</sup>

<b>Page 25: [97] Deleted</b>	<b>Norbert Lindenberg</b>	<b>6/28/12 13:20</b>
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the *localeList* argument

<sup>6.</sup>

<b>Page 25: [98] Deleted</b>	<b>Norbert Lindenberg</b>	<b>6/28/12 13:20</b>
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*getOption*

<sup>7.</sup>

<b>Page 25: [98] Deleted</b>	<b>Norbert Lindenberg</b>	<b>6/28/12 13:20</b>
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*getOption*

<sup>8.</sup>

<b>Page 25: [98] Deleted</b>	<b>Norbert Lindenberg</b>	<b>6/28/12 13:20</b>
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*getOption*

<sup>9.</sup>

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*getOption*

<sup>a.</sup>

<b>Page 25: [99] Deleted</b>	<b>Norbert Lindenberg</b>	<b>6/28/12 13:20</b>
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*getOption*

<sup>b.</sup>

<b>Page 25: [100] Deleted</b>	<b>Norbert Lindenberg</b>	<b>6/28/12 13:20</b>
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*getOption*

<sup>10.</sup>

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*getOption*

<sup>11.</sup>

<b>Page 25: [100] Deleted</b>	<b>Norbert Lindenberg</b>	<b>6/28/12 13:20</b>
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*getOption*

<sup>12.</sup>

<b>Page 25: [100] Deleted</b>	<b>Norbert Lindenberg</b>	<b>6/28/12 13:20</b>
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*getOption*

<sup>13.</sup>

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**new**

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new

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English (UK)

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English (UK)

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)

Returns a String value representing the result of calling ToNumber(date)

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English (UK)

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English (UK)

<b>Page 29: [105] Formatted</b>	<b>Norbert Lindenberg</b>	<b>6/28/12 13:20</b>
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English (US)

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English (US)

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English (US)

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does not have an [[initializedDateTimeFormat]] internal property with value **true**

<b>Page 29: [106] Deleted</b>	<b>Norbert Lindenberg</b>	<b>6/28/12 13:20</b>
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does not have an [[initializedDateTimeFormat]] internal property with value **true**

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omitted

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omitted

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omitted

iii.

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1)

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1)

2.

**Page 30: [109] Deleted**                      **Norbert Lindenberg**                      **6/28/12 13:20**

y

3.

**Page 30: [109] Deleted**                      **Norbert Lindenberg**                      **6/28/12 13:20**

y

4.

**Page 30: [109] Deleted**                      **Norbert Lindenberg**                      **6/28/12 13:20**

y

5.

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Let *format* be the standard built-in function object defined in 12.3.2.

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Let *format* be the standard built-in function object defined in 12.3.2.

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[[Call]] internal method of *format*

1.

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[[Call]] internal method of *format*

2.

**Page 30: [111] Deleted**                      **Norbert Lindenberg**                      **6/28/12 13:20**

[[Call]] internal method of *format*

3.

**Page 30: [112] Deleted**                      **Norbert Lindenberg**                      **6/28/12 13:20**

[[Call]] internal method of *format*

4.

**Page 30: [112] Deleted**                      **Norbert Lindenberg**                      **6/28/12 13:20**

[[Call]] internal method of *format*

5.

**Page 30: [112] Deleted**                      **Norbert Lindenberg**                      **6/28/12 13:20**

[[Call]] internal method of *format*

6.

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equals

ii.

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equals

iii.

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equals

iv.

**Page 30: [113] Deleted**                      **Norbert Lindenberg**                      **6/28/12 13:20**

equals

v.

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equals

vi.

**Page 30: [113] Deleted**                      **Norbert Lindenberg**                      **6/28/12 13:20**

equals

vii.

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equals

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Algorithm variable, English (UK)

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Algorithm variable, English (UK)

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Algorithm variable, English (UK)

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value of the [[Get]] attribute is a

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value of the [[Get]] attribute is a

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value of the [[Get]] attribute is a

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value of the [[Get]] attribute is a

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an argument list containing the single item **this**.

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1.