

## Comments and secretariat observations

Date: July 19, 2010

Document: ISO/IEC JTC 1 N 9960

1	2	(3)	4	5	(6)	(7)
MB <sup>1</sup>	Clause No./ Subclause No./ Annex (e.g. 3.1)	Paragraph/ Figure/Table/ Note (e.g. Table 1)	Type of com- ment <sup>2</sup>	Comment (justification for change) by the MB	Proposed change by the MB	Secretariat observations on each comment submitted
Ecma	6	Paragraph 1	ed	Incorrect word tense	In last sentence replace the word “convert” with the word “converted”	
Ecma	7.1	Table 1	te, ed	The code unit value for <ZWJ> is incorrectly stated.	In the first column of the second non-heading row replace “\u200C” with “\u200D”	
Ecma	7.6	Grammar productions	ed	Grammar rules for <i>UnicodeLetter</i> , <i>UnicodeCombiningMark</i> , <i>UnicodeDigit</i> , <i>UnicodeConnectorPunctuation</i> , and <i>UnicodeEscapeSequence</i> are missing “:.”	Insert :: immediately after the names <i>UnicodeLetter</i> , <i>UnicodeCombiningMark</i> , <i>UnicodeDigit</i> , <i>UnicodeConnectorPunctuation</i> , and <i>UnicodeEscapeSequence</i> in the last 5 grammar rules in this section. Format consistently with the use of :: in other grammar rules in this section.	
Ecma	7.8.4	First sentence of paragraph immediately following grammar productions	ed	“definitions” should be singular, incorrect subclause referenced.	Sentence should be: The definition of the nonterminal <i>HexDigit</i> is given in 7.8.3.	
Ecma	7.9.1	Grammar productions in NOTE	ed	In grammar rule for <i>ThrowStatement</i> , the word “throw” should not be italic	Corrected rule:  <i>ThrowStatement</i> : <b>throw</b> [no <i>LineTerminator</i> here] <i>Expression</i> ;	
Ecma	7.9.1	Last sentence of note	ed	Grammar, “A” should be “An”	An <i>Identifier</i> in a <b>break</b> or <b>continue</b> statement should...	
Ecma	9.8.1	Step 10 of algorithm	ed	Incorrect font and emphasis usage.	Revisions in red: 10. Return the String consisting of the most significant digit of the decimal representation of <i>s</i> , followed by a decimal point ‘.’, followed by the remaining <i>k</i> –1 digits of the decimal representation of <i>s</i> ,	

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					followed by the lowercase character 'e', followed by a plus sign '+' or minus sign '-' according to whether $n-1$ is positive or negative, followed by the decimal representation of the integer $\text{abs}(n-1)$ (with no leading zeros).	
Ecma	10.2.1.1.1	Algorithm step 3	ed	Missing period at end of sentence.	3. If it does not have such a binding, return <b>false</b> .	
Ecma	10.2.1.1.3	First paragraph and step 4 of algorithm	te	The last two sentences and step 4 are incorrect and do not reflect actual practice by current implementations. The semantic change from existing practice was unintended	Revise paragraph as shown in red:  The concrete Environment Record method SetMutableBinding for declarative environment records attempts to change the bound value of the current binding of the identifier whose name is the value of the argument $N$ to the value of argument $V$ . A binding for $N$ must already exist. If the binding is an immutable binding, a <b>TypeError</b> is <b>always</b> thrown if $S$ is <b>true</b> . <del>The <math>S</math> argument is ignored because strict mode does not change the meaning of setting bindings in declarative environment records.</del>  Insert red text into algorithm step 4:  4. Else this must be an attempt to change the value of an immutable binding so <b>if <math>S</math> is true</b> throw a <b>TypeError</b> exception.	
Ecma	10.2.1.2.2	Algorithm	te	Using false as the throw parameter to <code>[[DefineOwnProperty]]</code> could result in a silent error in strict	Replace false, with true as shown below:	

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		step 5		mode if the global object is not extensible.	5. Call the <code>[[DefineOwnProperty]]</code> internal method of <i>bindings</i> , passing <i>N</i> , Property Descriptor <code>{[[Value]]: <b>undefined</b>, [[Writable]]: <b>true</b>, [[Enumerable]]: <b>true</b>, [[Configurable]]: <i>configValue</i> }</code> , and <b>true false</b> as arguments.	
Ecma	10.5	Algorithm step 6	ed	Missing period at end of sentence.		
Ecma	10.5	Algorithm step 5.e	te	Step 5.e of original algorithm handled redefining existing global function declarations in a manner that was incompatible with prior editions of this standard and which in some cases would unintentionally invoke accessor functions	<p>Renumber existing step 5.e as 5.f.</p> <p>Insert new step 5.e and substeps as follows:</p> <p>e. Else if <i>env</i> is the environment record component of the global environment then</p> <ol style="list-style-type: none"> <li>i. Let <i>go</i> be the global object.</li> <li>ii. Let <i>existingProp</i> be the resulting of calling the <code>[[GetProperty]]</code> internal method of <i>go</i> with argument <i>fn</i>.</li> <li>iii. If <i>existingProp</i> .<code>[[Configurable]]</code> is <b>true</b>, then <ol style="list-style-type: none"> <li>1. Call the <code>[[DefineOwnProperty]]</code> internal method of <i>go</i>, passing <i>fn</i>, Property Descriptor <code>{[[Value]]: <b>undefined</b>, [[Writable]]: <b>true</b>, [[Enumerable]]: <b>true</b>, [[Configurable]]: <i>configurableBindings</i> }</code>, and <b>true</b> as arguments.</li> </ol> </li> <li>iv. Else if <code>IsAccessorDescriptor(<i>existingProp</i>)</code> or <i>existingProp</i> does not have</li> </ol>	

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					attribute values {[[Writable]]: <b>true</b> , [[Enumerable]]: <b>true</b> }, then 1. Throw a <b>TypeError</b> exception.	
Ecma	11.2.3	Algorithm step 6.b.i	ed	Reference to variable “ref” should italic	Let <i>thisValue</i> be the result of calling the ImplicitThisValue concrete method of GetBase( <i>ref</i> ).	
Ecma	12.10	Algorithm step 4.	ed	Missing period at end of sentence.		
Ecma	12.11	Third algorithm in Semantics subsection, step 3	ed	CaseClause and CaseClauses should be italic	3. Let <i>B</i> be the list of <i>CaseClause</i> items in the second <i>CaseClauses</i> , in source text order.	
Ecma	12.11	Third algorithm in Semantics subsection, step 5.b.i	ed	StatementList should be italic	i. If <i>C</i> has a <i>StatementList</i> , then	
Ecma	12.11	Third algorithm in Semantics subsection, step 9.b	ed	StatementList should be italic	b. If <i>C</i> has a <i>StatementList</i> , then	
Ecma	12.6.4	Final two normative paragraphs immediate before the note	te	Implementers of the specification have found it to be unclear regarding whether shadowed inherited properties are included in a for-in enumeration. The intent for this situation needs to be made more explicit.	Add as the last sentence of the paragraph beginning "The mechanics and...":  A property name must not be visited more than once in any enumeration.  Add as the last sentence of the paragraph beginning "Enumerating the properties...":  The values of [[Enumerable]] attributes	

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					are not considered when determining if a property of a prototype object is shadowed by a previous object on the prototype chain.	
Ecma	12.11	Third algorithm in Semantics subsection, step 9.b.i	ed	StatementList should be italic	i. Evaluate <i>C</i> 's <i>StatementList</i> and let <i>R</i> be the result.	
Ecma	15.1.2.1	Algorithm step 5	ed	evalCtx should be italic	5. Exit the running execution context <i>evalCtx</i> , restoring the previous execution context.	
Ecma	15.1.2.2	First paragraph, last sentence	ed	Missing "the"	If <i>radix</i> is 16, <b>the</b> number may also optionally begin with the character pairs <b>0x</b> or <b>0X</b> .	
Ecma	15.1.3	Third paragraph	ed	Unnecessary "the"	where the italicised names represent components and <b>the</b> ":", "/", "; and "?" are reserved characters used as separators.	
Ecma	15.2.2.1	Algorithm step 2.	ed	"Assert" is misspelled as "Asset"		
Ecma	15.2.2.1	Algorithm step 7.	ed	Missing period at end of sentence.		
Ecma	15.2.3.7	Algorithm steps 5 and 6.	te	Steps 5 and 6 poorly describe the technical intent of the algorithm. In particular the reference to <i>P</i> in step 6.a is inadequately related to the use of <i>P</i> in step 5.	Replace the current text of step 5.c with:  c. Append the pair (a two element List) consisting of <i>P</i> and <i>desc</i> to the end of <i>descriptors</i> .  In step 6, replace the phrase " <i>desc</i> of" with " <i>pair</i> from".	

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					Relabel step 6.a as step c.  Immediately above the relabeled step 6.c insert the following new substeps of step 6:  a. Let <i>P</i> be the first element of <i>pair</i> . b. Let <i>desc</i> be the second element of <i>pair</i> .	
Ecma	15.2.4.2	Algorithm all steps	te	The algorithm, as originally stated when implemented caused failure of a widely used Web framework. Revision to specification necessary to avoid such failures of deployed web content.	Renumber existing algorithm steps 1-3 as 3-5  Insert new steps 1 and 2: 1. If the <b>this</b> value is <b>undefined</b> , return " <b>object Undefined</b> ". 2. If the <b>this</b> value is <b>null</b> , return " <b>object Null</b> ".	
Ecma	15.3.2.1	Algorithm steps 5.d.1 and 5.e	ed	" <i>k</i> <sup>th</sup> " should be " <i>k</i> <sup>th</sup> "		
Ecma	15.3.4.3	Algorithm steps 5 and 7.	te	The validation checks in steps 5 and 7 are inconsistent with other similar generic array usages in the specification. The checks should be deleted	Delete existing algorithm steps 5 and 7. Renumber previous step 6 as step 5. Renumber previous steps 8-11 as steps 6-9	
Ecma	15.4.4.9	Algorithm step 7.e	ed	fromPresent should be italic		
Ecma	15.4.4.18	Algorithm step 8.	te	The return value is missing from step 8. It should be the <b>undefined</b> value	8. Return <b>undefined</b> .	
Ecma	15.4.4.21	Paragraph 4	ed, te	Cut/paste error results in reference to "filter" instead of the name of the current function.	In the last sentence of paragraph 4 replace " <b>filter</b> " with " <b>reduce</b> "	
Ecma	15.4.4.22	Algorithm step 9.c.ii	te	<i>Callbackfn</i> is called with <b>null</b> as the <b>this</b> value. All other similar functions pass <b>undefined</b> as the <b>this</b> value.	Replace <b>null</b> with <b>undefined</b> :  ii. Let <i>accumulator</i> be the result of calling the <b>[[Call]]</b> internal method	

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					of <i>callbackfn</i> with <del>null</del> <b>undefined</b> as the <b>this</b> value and argument list containing <i>accumulator</i> , <i>kValue</i> , <i>k</i> , and <i>O</i> .	
Ecma	15.4.4.22	Paragraph 2	ed	Incorrect font and emphasis for references to <i>previousValue</i> , <i>currentIndex</i> and <i>currentValue</i> .	Correct as shown: <i>callbackfn</i> is called with four arguments: the <i>previousValue</i> (or value from the previous call to <i>callbackfn</i> ), the <i>currentValue</i> (value of the current element), the <i>currentIndex</i> , and the object being traversed. The first time the function is called, the <i>previousValue</i> and <i>currentValue</i> can be one of two values. If an <i>initialValue</i> was provided in the call to <b>reduceRight</b> , then <i>previousValue</i> will be equal to <i>initialValue</i> and <i>currentValue</i> will be equal to the last value in the array. If no <i>initialValue</i> was provided, then <i>previousValue</i> will be equal to the last value in the array and <i>currentValue</i> will be equal to the second-to-last value. It is a <b>TypeError</b> if the array contains no elements and <i>initialValue</i> is not provided.	
Ecma	15.4.4.22	Paragraph 4	ed, te	Cut/paste error results in reference to “filter” instead of the name of the current function.	In the last sentence of paragraph 4 replace “ <b>filter</b> ” with “ <b>reduceRight</b> ”	
Ecma	15.4.5.1	Algorithm step 3.k	ed	There are two periods at the end of the sentence.	Remove extra period	
Ecma	15.5.4.12	Algorithm step 5	ed	Two occurrences of regexp should be italic	5. Search the value <i>string</i> from its beginning for an occurrence of the regular expression pattern <i>rx</i> . Let <i>result</i> be a Number indicating the offset within <i>string</i>	

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					where the pattern matched, or –1 if there was no match. The <b>lastIndex</b> and <b>global</b> properties of <i>regexp</i> are ignored when performing the search. The <b>lastIndex</b> property of <i>regexp</i> is left unchanged.	
Ecma	15.5.5.2	First paragraph	te, ed	Text should not imply that array index restrictions apply to the individual character properties of String Objects.	Update as indicated by red markup: String objects use a variation of the <code>[[GetOwnProperty]]</code> internal method used for other native ECMAScript objects (8.12.1). This special internal method is used to <b>add access for <del>specify the array index</del> named properties corresponding to individual characters</b> of String objects.	
Ecma	15.5.5.2	Algorithm steps 3 & 5	te	Steps 3 and 5 are imposing array index (UInt32) restrictions upon individual character properties. However, such indices only require integer restrictions.	Replace step 3 with: 3. If <code>ToString(abs(ToInteger(P)))</code> is not the same value as <i>P</i> , return <b>undefined</b> . Update step 5 as indicated in red: 5. Let <i>index</i> be <del><code>ToUInt32</code></del> <code>ToInteger(P)</code> .	
Ecma	15.7.3	Second paragraph, first word	ed	Should be “properties” rather than “property”		
Ecma	15.7.4.2	Second paragraph, first sentence	ed	“RangeError” should have bold font emphasis		
Ecma	15.7.4.6	Second paragraph,	ed	The word “decimal” is misspelled as “decmal”		

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		first sentence				
Ecma	15.8.2	First NOTE paragraph	ed	tan function is missing from list of functions in first sentence	Remove word “and” from between “sin” and “sqrt”. Add a comma immediately after “sqrt” followed by the text “and <del>tan</del> ”	
Ecma	15.9.1.12	Algorithm step 7	ed	Delete extra right parenthesis in step 7 immediately following “mn”		
Ecma	15.9.1.15	The table of field definitions, second line	ed	“hyphen” is misspelled as “hyphon”		
Ecma	15.9.1.15	The table of field definitions, line for HH	te	The valid field range is not specified	Add “from 00 to 24” to the end of the definition:  is the number of complete hours that have passed since midnight as two decimal digits <del>from 00 to 24</del> .	
Ecma	15.9.1.15	The table of field definitions, line for mm	te	The valid field range is not specified	Add “from 00 to 59” to the end of the definition:  is the number of complete minutes since the start of the hour as two decimal digits <del>from 00 to 59</del> .	
Ecma	15.9.1.15	The table of field definitions, line for ss	te	The valid field range is not specified	Add “from 00 to 59” to the end of the definition:  is the number of complete seconds since the start of the minute as two decimal digits <del>from 00 to 59</del> .	
Ecma	15.9.1.15	The table of field definitions	ed	The sentence “Both the ... may be omitted” may be misleading. Other fields also may be omitted but are not explicitly called out in this manner. There is no reason to distinguish the two fields mentioned in the sentence.	Delete the sentence.	
Ecma	15.9.1.15	The table of field definitions, line for Z	ed	“hh” should be “HH”	is the time zone offset specified as “z” (for UTC) or either “+” or “-” followed by a time expression <del>hh</del> HH : mm	

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Ecma	15.9.1.15	The single sentence paragraph beginning "All numbers..."	te	The text fails to specify which values to use as defaults for omitted fields.	Add the following to this paragraph:  If the <b>mm</b> or <b>DD</b> fields are absent "01" is used as the value. If the <b>mm</b> or <b>ss</b> fields are absent "00" is used as the value and the value of an absent <b>sss</b> file is "000". The value of an absent time zone offset is "z".	
Ecma	15.9.1.15	Paragraphs immediately preceding and following the three "time-only" formats.	te	The text could be interpreted as allowing a date-time string that consists only of the time portion. However, the value produced when parsing such a string must always include a date. Yet which date to use when the date portion is missing is not specified. Time-only strings were not an intended use case for this format within ECMAScript. The text needs to clarify that the date portion is not optional.	Delete the trailing paragraph and modify the preceding paragraph as indicated in red:  It also includes "date-time" forms that consist of one of the above date-only forms immediately followed by one of the following time <del>which it also includes time-only</del> forms with an optional time zone offset appended:  <b>THH : mm</b> <b>THH : mm : ss</b> <b>THH : mm : ss . sss</b>  <del>Also included are "date-times" which may be any combination of the above.</del>	
Ecma	15.10.2.1	Fifth bullet item of second list, last sentence	ed	Incorrect font, emphasis and capitalization for first occurrence of "matcher"	Update as:  If it can, the <del>#</del> <i>Matcher</i> returns...	
Ecma	15.10.2.6	Algorithm step 3	ed	" <i>multiline</i> " should be capitalized		

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Ecma	15.10.2.15	Second paragraph	ed	Wrong font and emphasis for grammar symbols	Should have changes in red: The production <i>NonemptyClassRanges</i> :: <i>ClassAtom</i> <i>NonemptyClassRangesNoDash</i> evaluates as follows:	
Ecma	15.10.2.15	Paragraph immediately following first algorithm	ed	Wrong font and emphasis for grammar symbols	Should have changes in red: The production <i>NonemptyClassRanges</i> :: <i>ClassAtom</i> - <i>ClassAtom</i> <i>ClassRanges</i> evaluates as follows:	
Ecma	15.10.6.2	Algorithm step 4	ed	Extra period at end of sentence should be removed		
Ecma	15.10.6.2	Algorithm step 9.a.ii	ed	“null” is in fixed pitch font it should be bold serif font		
Ecma	15.10.6.3	Step 1 of algorithm	ed	Incorrect subclass cross reference	The reference to “15.10.6.3” should be changed to “15.10.6.2”	
Ecma	15.11.1.1	Last paragraph	te	If the message argument is undefined, an own property should not be created with empty string value.	Delete last sentence (beginning, “Otherwise...”)	
Ecma	15.11.2.1	Last paragraph	te	If the message argument is undefined, an own property should not be created with empty string value.	Delete last sentence (beginning, “Otherwise...”)	
Ecma	15.11.4.4	Algorithm steps 6-8	te	Algorithm is buggy and does not deal with all possible value combinations.	Starting at step 6, the algorithm should be:  6. If <i>msg</i> is undefined, then let <i>msg</i> be the empty String; else let <i>msg</i> be ToString( <i>msg</i> ). 7. If <i>name</i> and <i>msg</i> are both the empty String, return "Error" . 8. If <i>name</i> is the empty String, return <i>msg</i> . 9. If <i>msg</i> is the empty String, return <i>name</i> . 10. Return the result of concatenating <i>name</i> , ":",	

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MB <sup>1</sup>	Clause No./ Subclause No./ Annex (e.g. 3.1)	Paragraph/ Figure/Table/ Note (e.g. Table 1)	Type of com- ment <sup>2</sup>	Comment (justification for change) by the MB	Proposed change by the MB	Secretariat observations on each comment submitted
					a single space character, and <i>msg</i> .	
Ecma	15.11.6.5	List of subclause references	ed	15.7.4.8 should not be in the list because it does not use TypeError exception	Delete "15.7.4.8" from the list	
Ecma	15.11.7.4	Last paragraph	te	If the message argument is undefined, an own property should not be created with empty string value.	Insert word "own" after "message" in "the message property"  Delete last sentence (beginning, "Otherwise...")	
Ecma	Annex A		ed	Annex A is an informative summary of normative grammar rules that occur in the main body of the specification. There are several transcription errors in this Annex	Correct Annex A items as indicated below	
Ecma	Annex A	A.1 Grammar rules for <i>UnicodeLett er</i> , <i>UnicodeCo mbiningMar k</i> , <i>UnicodeDigi t</i> , <i>UnicodeCon nectorPunct uation</i> , and <i>UnicodeEsc apeSequen ce</i>	ed, te	Grammar rules for <i>UnicodeLetter</i> , <i>UnicodeCombiningMark</i> , <i>UnicodeDigit</i> , <i>UnicodeConnectorPunctuation</i> , and <i>UnicodeEscapeSequence</i> are missing "::  (this is the same error as described above for subclause 7.6 but transcribed into Annex A.1)	Insert :: immediately after the names <i>UnicodeLetter</i> , <i>UnicodeCombiningMark</i> , <i>UnicodeDigit</i> , <i>UnicodeConnectorPunctuation</i> , and <i>UnicodeEscapeSequence</i> in the last 5 grammar rules in this section. Format consistently with the use of :: in other grammar rules in this section.	
Ecma	Annex A	A.1 between grammar rules for <i>DecimalDigi t</i> and <i>ExponentIn</i>	Ed, te	The grammar rules for <i>NonZeroDigit</i> and <i>ExponentPart</i> are missing from the Annex.	<i>Insert the following two rules, each with a "See 7.8.3" reference:</i>  <i>NonZeroDigit</i> :: <b>one of</b> <b>1 2 3 4 5 6 7 8 9</b>	

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2 **Type of comment:** **ge** = general **te** = technical **ed** = editorial

**NOTE** Columns 1, 2, 4, 5 are compulsory.

## Comments and secretariat observations

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		<i>dicator</i>			<i>ExponentPart :: ExponentIndicator SignedInteger</i>	
Ecma	Annex A	A.1 grammar rule for <i>RegularExp ressionBack slashSeque ncede</i>	Ed, te	Rules definition is inconsistent with the normative rule in 7.8.5.	Replace " <i>NonTerminator</i> " with " <i>RegularExpressionNonTerminator</i> "	
Ecma	Annex A	A.1 grammar rule for <i>Literal</i>	ed, te	<i>RegularExpressionLiteral</i> is missing as a right-hand-side term	Add " <i>RegularExpressionLiteral</i> " on a new line immediately following the line containing " <i>StringLiteral</i> "	
Ecma	Annex A	A.8.1 grammar rule for <i>JSONString Character</i>	ed, te	Rules definition is inconsistent with the normative rule in 15.12.1.1	Replace " <i>JSONSourceCharacter</i> " with " <i>SourceCharacter</i> "	
Ecma	Annex C	Bullet list	ed, te	Informative text is missing a summary item for a normative requirement.	Add as first bullet of the list: <ul style="list-style-type: none"><li>• The identifiers "<b>implements</b>", "<b>interface</b>", "<b>let</b>", "<b>package</b>", "<b>private</b>", "<b>protected</b>", "<b>public</b>", "<b>static</b>", and "<b>yield</b>" are classified as <i>FutureReservedWord</i> tokens within strict mode code. (7.6.12).</li></ul>	
Ecma	Annex C	Next to last bullet item	ed	Informative text is confusing/misleading and has incomplete clause references.	Update bullet items as indicated by the following red insertions and deletions:	

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					An implementation may not extend, <b>beyond that defined in this specification</b> , the <del>associate special</del> meanings within strict mode functions of <del>te</del> properties named <b>caller</b> or <b>arguments</b> of function instances. ECMAScript code may not create or modify properties with these names on function objects that correspond to strict mode functions ( <b>10.6</b> , <b>13.2</b> , <b>15.3.4.5.3</b> ).	
Ecma	Annex D	Fifth paragraph	ed	Extra period after ":" following clause number prefix.	Delete the period	
Ecma	Annex D	Sixth paragraph	ed	Extra period after ":" following clause number prefix.	Delete the period	

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