

Text To Speech SSML Product Documentation



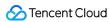


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SSML

Last updated: 2022-06-29 18:38:44

Speech Synthesis Markup Language (SSML) is based on XML to define the effects of synthetic speeches more accurately and specifically.

Note:

- Tencent TTS implements SSML based on Speech Synthesis Markup Language (SSML) Version 1.1.
- Currently, the SSML feature is supported only for Chinese.

Directions

The tagged text is uploaded to TTS as the value of the text parameter. Below is the content of the request sent to TTS:

```
"Action" : "TextToVoice",
"AppId" : 12345,
"Codec" : "mp3",
"Expired" : 1603271036,
"ModelType" : 1,
"PrimaryLanguage" : 1,
"ProjectId" : 0,
"SampleRate" : 8000,
"SecretId" : "AKID****",
"SessionId" : "1234",
"Speed" : 0,
"Text" : "<speak>The mobile number is <say-as interpret-as=\"telephone\">40081105
10</say-as>.</speak>",
"Timestamp" : 1603184636,
"VoiceType" : 1002,
"Volume" : 5
}
```

The SSML feature of TTS supports nesting multiple <speak> tags in the text; for example:



```
<speak>Her name is <say-as interpret-as="name">Ren Yingying</say-as>.
Her mobile number is <say-as interpret-as="telephone">+86-151888888888</say-as>.
She is <say-as interpret-as="cardinal">22</say-as> years old.
She has a package with the tracking number <say-as interpret-as="digits">56482345 14237588</say-as>.
Her address is <say-as interpret-as="address">304, Unit 3, No. 10,000, Shennan Bo ulevard</say-as>.
</speak>By the way, <speak>
Her username is <say-as interpret-as="characters">b888_uaβy</say-as>.
</speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak></speak>
```

Tag

<speak>

Description

The `<speak>` $tag\ is$ the root $node\ of$ all SSML tags to be supported but doesn't s upport attributes. All text for which to call SSML tags must be enclosed in `<spe ak></speak>`.

Syntax

```
<speak>Text for which to call SSML tags
```

Tag relationships

The <speak> tag can contain text and the following tags:

<sub> , <phoneme> , <say-as> , and <sub> .

Sample

```
<speak>Text for which to call SSML tags.
```

Output speech audio: SSML-speak1.wav

<sub>

Description

This tag uses an alias to replace the text in it.



Syntax

```
<sub alias="Alias">Text</sub>
```

Attributes

Attribute	Туре	Value	Required	Description
alias	String	New content	Yes	It is used to replace the text in the tag.

Tag relationships

This tag can contain text only.

Sample

```
<speak><sub alias="TTS">TTS</sub></speak>
```

Output speech audio: SSML-sub.wav

 dreak>

Description

This optional tag is used to insert a pause in the text.

Syntax

```
<break time="string"/>
```

Attributes

Attribute	Type	Value	Required	Description
time	String	[number]s/[number]ms	Yes	You can set the pause duration in seconds or milliseconds, such as `2s` or `50ms`. [number]s: The unit is second, and the value of `[number]` must be an integer between 1 and 10. [number]ms: The unit is millisecond, and the value of `[number]` must be an integer between 50 and 10000.

Tag relationships

<break> is an empty tag and cannot contain any tags.



Sample

<phoneme>

Description

This optional tag is used to control the pronunciation of the text in it.

Syntax

<phoneme alphabet="py" ph="Pinyin string">Text</phoneme>

Attribute	Type	Value	Required	Description
alphabet	String	ру	Yes	`py` indicates pinyin.
ph	String	Pinyin string of the text in the tag	Yes	Limits on the pinyin value: - Pinyin syllables of different characters need to be separated with spaces, and the number of pinyin syllables must be the same as the number of Chinese characters Each pinyin syllable consists of the pronunciation and tone. The tone is an integer between 1 and 5, where 5 indicates a neutral tone.

Tag relationships

The <phoneme> tag can contain text only.

Sample

<speak>

Currently, the economic levels of different areas are <phoneme alphabet="py" ph= "cen1 ci1 bu4 qi2">uneven</phoneme>. We need to bridge the <phoneme alphabet="py" ph="cha1 ju4">gap</phoneme> between the richer and poorer areas. However, the <ph oneme alphabet="py" ph="chai1 shi4">job</phoneme> is not easy. </speak>

Output speech audio: SSML-phoneme.wav

<say-as>

Description



This tag is used to specify the information type of the text in it. The text will then be spoken in the default pronunciation method for the specified information type.

Syntax

<say-as interpret-as="string">Text</say-as>

Attribute	Туре	Value	Required	Description
interpret- as	String	cardinal/digits/telephone/name/address/id/characters/punctuation/date/time/currency/measure	Yes	Information type of the text in the tag: cardinal: Speak the text as an integral or decimal number. digits: Speak the text as individual digits. telephone: Speak the text in a common way of saying phone numbers. name: Speak the text as a name. address: Speak the text as an address. id: Speak the text as an account name or nickname. characters: Speak the text as individual characters. punctuation: Speak the text as a punctuation mark. date: Speak the text as a date. time: Speak the text as a time. currency: Speak the text as a an amount of money. measure: Speak the text as a number with a unit.

Values supported by each <say-as> type

cardinal

Format	Example	Output	Description
Digit string	1487	One thousand four hundred	Integral value range: [-18446744073709551615,18446744073709551615].



		and eighty- seven
Minus sign + digit string	-1487	Negative one thousand four hundred and eighty- seven
Digit string where every three digits are separated with a comma	10,500	Ten thousand five hundred
Minus sign + digit string where every three digits are separated with a comma	-10,500	Negative ten thousand five hundred
Digit string + decimal point + two zeros	9.00	Nine
Minus sign + digit string + decimal point + two zeros	-110.00	Negative one hundred and ten
Digit string + decimal point + digit string	88.090	Eighty-eight point zero nine
Minus sign + digit string + decimal point + digit string	-88.001	Negative eighty-eight point zero nine

Decimal value range: The number of decimal places is unlimited but should be no more than 10 preferably.

• digits

Format	Example	Output	Description
Digit string	356210985	Three five six two one zero nine eight five	The length of the digit string is unlimited. We recommend you use no more than 20 digits and insert a pause after each digit if the string contains more than 10 digits.



• telephone

Format	Example	Output	Description	
	5605560	Five six oh five five six oh		
	560 5560	Five six oh five five six oh	7- and 8-digit landline numbers are	
Landline	560-5560	Five six oh five five six oh	supported. Different groups of digits can be separated with spaces or `-`. Here, a 7-digit landline number can be	
number	55605560	Five five six oh five five six oh	separated in the "3 digits-4 digits" format, and an 8-digit one can be separated in the "4 digits-4 digits"	
	5560 5560	Five five six oh five five six oh	format.	
	5560-5560	Five five six oh five five six oh		
Landline number + extension	55605560-105	Five five six oh five five six oh extension one oh five	The extension can contain 1-4 digits.	
	55605560 ext. 105	Five five six oh five five six oh extension one oh five		
	55605560 extension 105	Five five six oh five five six oh extension one oh five		
	55605560 extension 105	Five five six oh five five six oh extension one oh five		
Area code +	01055605560	Oh one oh five five six oh five five six oh	The following area codes are supported: 010, 02x, 03xx, 04xx, 05xx,	
number	010 55605560	Oh one oh five five six oh five five six oh	07xx, 08xx, and 09xx.	
	010-5560-5560	Oh one oh five five six oh five five six oh		
	(010)55605560	Oh one oh five five six		



		oh five five six oh		
	031955605560	Oh three one nine five five six oh five		
	0319-55605560	Oh three one nine five five six oh five		
	010 33878528-1054	Oh one oh three three eight seven eight five two eight extension one oh five four		
	010-33878528- 1054	Oh one oh three three eight seven eight five two eight extension one oh five four		
Area code + landline	(010)33878528- 1054	Oh one oh three three eight seven eight five two eight extension one oh five four	None	
number + extension	(010)33878528 ext. 1054	Oh one oh three three eight seven eight five two eight extension one oh five four	None	
	(010)33878528 extension 1054	Oh one oh three three eight seven eight five two eight extension one oh five four		
	(010)33878528 extension 1054	Oh one oh three three eight seven eight five two eight extension one oh five four		
Country code + area code + landline	86-010-33878528	Eight six oh one oh three three eight seven	Country codes in the following formats are supported: 86, (86), +86, (+86), and 0086, which are collectively	
number	(86)10-33878528	Eight six one oh three three eight seven eight five two eight	spoken as "eight six".	



	+86-010-33878528	Eight six oh one oh three three eight seven eight five two eight	
	0086-10-33878528	Eight six one oh three three eight seven eight five two eight	
	(+86)-10-3387 8528	Eight six one oh three three eight seven eight five two eight	
	(86)21-33878528- 1054	Eight six two one three three eight seven eight five two eight extension one oh five four	
	(86)021-3387-8528- 1054	Eight six oh two one three three eight seven eight five two eight extension one oh five four	
Country code + area code + landline number + extension	(86)021-33878528 ext. 1054	Eight six oh two one three three eight seven eight five two eight extension one oh five four	None
	(86)21-3387-8528 extension 1054	Eight six two one three three eight seven eight five two eight extension one oh five four	
	+86-021-3387-8528 extension 1054	Eight six oh two one three three eight seven eight five two eight extension one oh five four	
Mobile number	151 8828 1075	One five one eight eight two eight one oh seven five	11-digit mobile numbers separated in "3-3-5" and "3-4-4" formats are supported.



	151-882-81075	One five one eight eight two eight one oh seven five		
	151-8828-1075	One five one eight eight two eight one oh seven five		
	+86-15188281075	Eight six one five one eight eight two eight one oh seven five		
Country code +	(+86)-151-8828- 1075	Eight six one five one eight eight two eight one oh seven five	None	
mobile number	+8615188281075	Eight six one five one eight eight two eight one oh seven five	None	
	0086-151 882 81075	Eight six one five one eight eight two eight one oh seven five		
	110	Oh oh one		
	95566	Nine five five six six		
	4008110280	Four oh oh eight one one oh two eight oh	 Common service numbers such as 110 are supported. 10-digit service numbers beginning 	
Service number	800-810-8888	Eight oh oh eight one oh eight eight eight eight	with 400 and 800 and separated in "3-3-4" format are supported. o 16-digit service numbers beginning with 12530, 17951, and 12593 are	
	1253013520638377	One two five three oh one three five two oh six three eight three seven seven	supported.	
Other	(86)(21)8832- 80976-0907	Eight six two one eight eight three two eight oh nine seven six oh nine oh seven	Digit strings separated with left and right parentheses or hyphens are supported.	

address



Format	Example	Output	Description	
	103-3, No. 1,000, Shennan Boulevard	One oh three dash three Number one oh oh oh Shennan Boulevard		
	No.1137-1128, Alley 377, Gaoxin Middle Avenue 4th Road	Number one one three seven dash one one two eight Alley three seven seven Gaoxin Middle Avenue Fourth Road		
Common address format	3-1-3805, Phase 6, Huaruncheng	Number three dash one dash three eight oh five Phase six Huaruncheng	Standard postal addresses in common formats are supported.	
	Room 2106, Building 2, Dazu Yunfeng	Room two one oh six Building two Dazu Yunfeng		
	No.19, Alley 151, Gaoxin Middle Avenue 3rd Road	Number one nine Alley one five one Gaoxin Middle Avenue Third Road		

• id

Format	Example	Output	Description
	dell3301	D E L L three three oh one	It can contain letters, digits, and underscores.
String	tencent_1998	TENCENT underscore one nine nine eight	Spaces between two characters in the output result indicate a pause. Characters separated with spaces are spoken one by one.
	AiDemo	AIDEMO	

• characters

Format	Example	Output	Description
String	ISO 1-001- 095498-1	I S O one dash oh oh one dash oh five four oh nine eight dash one	It can contain letters, digits, and certain full-width and half-width characters. Spaces between two characters in the output result indicate a pause. Characters separated with spaces are spoken one by one. If the text in the tag contains special XML symbols, they
x10u2385 u	X one zero U two three eight five underscore U	need to be escaped, commonly including: < > * * * * * * * * * * * *	

v1.1.1	V one dot one dot one
Version 2.0	Version two dot oh
Yue B BA000	Yue B B A oh oh oh
Airbus A330	Airbus A three three oh
Models B01, B02, and B03	Models B oh one B oh two and B oh three
αβγ	Alpha beta gamma

They represent `<`, `>`,`&`, `"`, and `l` respectively.

• punctuation

Format	Example	Output	Description
Punctuation		Ellipsis	It supports common punctuation marks. Spaces
mark		Ellipsis	between two characters in the output result indicate a pause. Characters separated with spaces are spoken
	!"#\$%&	Exclamation mark double quotation mark hash sign dollar percent sign and	one by one. If the text in the tag contains special XML symbols, they need to be escaped, commonly including: <
	'()*+	Single quotation mark left parenthesis right parenthesis asterisk plus sign	& " ' They represent `<`, `>`,`&`, `"`, and `l` respectively.
	,/:;	Comma hyphen dot slash colon semicolon	
	<=>?@	Less-than sign equal sign greater-than sign question mark at	
	[/]^_	Left square bracket backslash right	



|--|--|

date

Format	Example	Output	Description
	71	Seventy-one	
	08	Oh eight	 2- and 4-digit years are supported. 2-digit years 60–99, 00–09 and 10–19 are supported.
	20	Twenty	
xx year	2020	Twenty twenty	
	1998	Nineteen ninety-eight	 4-digit years 1000–1999 and 2000–2099 are supported.
	2008	Two thousand and eight	
	5/08	May oh eight	
and the second	04/2020	April twenty twenty	For January to September, the input month number can start either with or without a "0", suc as 4/1908 and 04/1908.
xx year xx month	08/08	August oh eight	
	8/2020	August twenty twenty	
	4/23/98	April twenty- third ninety- eight	For the first to ninth day, the input day number can start either with or without a "0", su
xx year xx month xx day	08/23/2020	August twenty- third twenty twenty	
	8/8/2020	August eighth twenty	as "4/8/1908" and "04/08/1908".
	08/08/2020	August eighth twenty twenty	
xx month xx day	8/20	August twentieth	None



	08/08	August eighth		
	2020/08	August twenty twenty		
Numeric date (year and month)	2020-08	August twenty twenty		
	2020.08	August twenty twenty	You can use "/", "-", or "_" to	
	2020/08/09	August ninth twenty	separate the numeric year, month, and day.	
Numeric date (year, month, and day)	2020-8-9	August ninth twenty eighteen		
	2020.08.09	August ninth twenty eighteen		
	8/9~30/2020	August ninth to thirtieth twenty	You can use "~" and "-" to indicate a span of time.	
xx year xx month xx day~xx year xx month xx day	08/09/2020-09/09/2020	August ninth twenty twenty to September ninth twenty twenty		
	04/20~04/21	April twenty to April twenty- one		
xx month xx year~xx month xx year	04/2020~04/2021	April twenty twenty to April twenty twenty- one		
xx month xx day~xx	10/1~10/7	October first to October seventh		
month xx day	10/01~10/07	October first to October seventh		
xx month xx day~xx day	10/1~7	October first to seventh		



	10/01~07	October first to seventh	
Numeric date (year, month, and	2020/03/03~2021/03/03	March third twenty twenty to March third twenty twenty- one	
day)~numeric date (year, month, and day)	2020.9.9~2021.9.9	September ninth twenty twenty to September ninth twenty twenty-one	You can use "/" or "." to separate the numeric year, month, and day and use "~" or "-" to indicate a span of time.
Numeric date (month and day)~numeric date (month and day)	10/20~10/31	October twentieth to October thirty- first	
xx~xx month or xx	1~10	January to October	
month~xx month	1~10	January to October	
>Numeric date (month, day, and year)	10/25/2020	October twenty-fifth twenty twenty	Only 4-digit years in the "MM/DD/YYYY" format are supported, and only "/" can be used to separate the day, month, and year.

• time

Format	Example	Output	Description
Time	12:00	Twelve o'clock	Common time and time range formats are supported.
	12:00:00	Twelve o'clock	
	10:25	Ten twenty-five	
	10:25:30	Ten twenty-five thirty	
	09:25:14	Nine twenty-five	



		fourteen			
	11:00~12:00	Eleven to twelve o'clock			
	09:00-14:00	Nine o'clock to fourteen			
	11:00~11:30	Eleven o'clock to eleven thirty			
	11:00-15:18	Eleven o'clock to fifteen eighteen			
Time~time	10:30~11:00	Ten thirty to eleven o'clock			
	09:28-10:00	Nine twenty-eight to ten o'clock			
	10:20~11:20	Ten twenty to eleven twenty			
	06:00~08:00	Six to eight o'clock			
	10:20 am~1:30 pm	Ten twenty A M to one thirty P M			
Numeric time	5:00am	Five o'clock in the early morning	If 'am' is used, for 00:00–05:59, 'am' is spoken as "in the early morning".		
	5:30am	Five thirty in the early morning	If `am` is used, for 06:00-11:59, `am` is spoken as "in the morning". If `pm` is used, for 12:00-12:59, `pm` is spoken as "at		
	5:20:12am	Five thirty twelve in the early morning	noon". If `pm` is used, for 01:00–05:59, `pm` is spoken as "in the afternoon"; for 06:00–11:59, `pm` is spoken as "at night".		
	7:00am	Seven o'clock in the morning			
	7:30AM	Seven thirty in the morning			
	7:20:25a.m.	Seven twenty twenty-five in the morning			



07:08:12A.M.	Seven eight twelve in the morning
5:00pm	Five o'clock in the afternoon
5:30PM	Five thirty in the afternoon
5:20:12p.m.	Five twenty twelve in the afternoon
05:09:12P.M	Five nine twelve in the afternoon
9:00pm	Nine o'clock at night
9:30pm	Nine thirty at night
9:20:12PM	Nine twenty twelve at night
9:02:12P.M.	Nine two twelve at night
12:00pm	Twelve o'clock at noon
12:30p.m.	Twelve thirty at noon
12:20:12PM	Twelve twenty twelve at noon

• currency

Format	Example	Output	Description	
Number +	12.00USD	Twelve dollars	AUD (Australian dollar), CAD (Canadian	
currency	12.50USD	Twelve dollars and fifty cents	dollar), HKD (Hong Kong dollar), JPY (Japanese yen), USD (US dollar), CHF (Swiss franc), NOK (Norwegian krone),	
	15,000,000USD	Fifteen million	SEK (Swedish krona), GBP (Pound	



		dollars	sterling), RMB (Renminbi), CNY (Chinese	
	15,000,000.00USD	Fifteen million dollars	yuan), and EUR (euro) are supported. The number can be an integer or decimal and can be separated by commas according to international standards.	
	12,000.35USD	Twelve thousand dollars and thirty-five cents		
	\$12	Twelve dollars		
	\$12.00	Twelve dollars		
	\$12.12	Twelve dollars and twelve cents	\$ (US dollar), fr (French franc), kr (Danish	
Concurrency + number	\$12,000	Twelve thousand dollars	krone), £ (Pound sterling), ¥ (Chinese yuan), and € (Euro) are supported. The number can be an integer or decimal	
	\$12,000.00	Twelve thousand dollars	and can be separated by commas according to international standards.	
	\$12,000.99	Twelve thousand dollars and ninety-nine cents		
Other default pronunciations	1213	One thousand two hundred and thirteen	None	
	1213KML	One thousand two hundred and thirteen K M L		
	1213.00KML	One thousand two hundred and thirteen K M L		
	1213.9KML	One hundred and twenty-one point three nine K M L		
	1,000KML	One thousand K M L		
	1,000.00KML	One thousand K M L		



1,000.98KML	One thousand point nine eight K M L
12,000	Twelve thousand

measure

Format	Evenne		
	Example	Output	Description
	2 sheets	Two sheets	Common Chinese units and unit
	120 hectares	One hundred twenty hectares	abbreviations are supported.
	Over 100 milligrams	Over one hundred milligrams	
Number +	Over 100 meters	Over one hundred meters	
Chinese unit	Over 100 people	Over one hundred people	
	1 centimeter 20 millimeters	One centimeter twenty millimeters	
	120.00 square kilometers	One hundred twenty square kilometers	
	120.56cm ²	One hundred and twenty point five six square centimeters	
Number + unit abbreviation	120m ² 56cm ²	One hundred and twenty square meters fifty-six square centimeters	
	100m12cm6mm	One hundred meters twelve centimeters six millimeters	
	10~15kg	Ten to fifteen kilograms	
Range	10.24~789.82 mu	Ten point two four to seven hundred and eighty-nine point eight two mu	
	10m~15m	Ten meters to fifteen meters	
	10.24cm~19.08cm	Ten point two four centimeters to nineteen point zero eight centimeters	
Number + unit + "/" + unit	10 dollars/kilogram	Ten dollars per kilogram	



	199~299 dollars/piece	One hundred and ninety-nine to two hundred and ninety-nine dollars per piece
	299.99 dollars/g~399.99 dollars/g	Two hundred and ninety-nine point nine nine dollars per gram to three hundred and ninety-nine point nine nine dollars per gram
Other default pronunciations	12 dozens	Twelve dozens
	30rm	Thirty R M
	400 million fellow citizens	Four hundred million fellow citizens
	12.897 micrograms	Twelve point eight nine seven micrograms

Pronunciations of common <say-as> special symbols

Special Symbol	Pronunciation
!	Exclamation mark
п	Double quotation mark
#	Hash sign
\$	Dollar
%	Percent sign
&	and
,	Single quotation mark
(Left parenthesis
)	Right parenthesis
*	Asterisk
+	Plus sign
,	Comma
-	Dash
	Dot



Special Symbol	Pronunciation
1	Slash
·	Colon
;	Semicolon
<	Less-than sign
=	Equal sign
>	Greater-than sign
?	Quotation mark
@	at
[Left square bracket
\	Backslash
]	Right square bracket
۸	Caret
_	Underscore
	Backtick
{	Left curly bracket
}	Right curly bracket
~	Tilde
!	Exclamation mark
11	Left double quotation mark
25	Right double quotation mark
í	Left single quotation mark
,	Right single quotation mark
(Left parenthesis



Special Symbol	Pronunciation
)	Right parenthesis
,	Comma
0	Period
_	Dash
;	Colon
;	Semicolon
?	Quotation mark
	Enumeration comma
	Ellipsis
	Ellipsis
«	Left title mark
>	Right title mark
¥	Chinese yuan sign
≥	Greater-than-or-equal-to sign
≤	Less-than-or-equal-to sign
≠	Not-equal sign
≈	Approximately-equal-to sign
±	Plus-minus sign
×	Multiplication sign
π	Pi
А	Alpha
В	Beta
Γ	Gamma
Δ	Delta



Special Symbol	Pronunciation
Е	Epsilon
Z	Zeta
E	Eta
Θ	Theta
1	lota
К	Карра
^	Lambda
М	Mu
N	Nu
Ξ	Xi
0	Omicron
П	Pi
Р	Rho
Σ	Sigma
Т	Tau
Υ	Upsilon
Ф	Phi
X	Chi
Ψ	Psi
Ω	Omega
α	Alpha
β	Beta
Υ	Gamma
δ	Delta



Special Symbol	Pronunciation
ε	Epsilon
ζ	Zeta
η	Eta
θ	Theta
ι	lota
К	Карра
λ	Lambda
μ	Mu
V	Nu
ξ	Xi
0	Omicron
π	Pi
ρ	Rho
σ	Sigma
τ	Tau
U	Upsilon
φ	Phi
х	Chi
Ψ	Psi
ω	Omega

Common <say-as> units

Format	Туре	Example
Abbreviation	Length	nm (nanometer), µm (micrometer), mm (millimeter), cm (centimeter), m (meter), km (kilometer), ft (foot), in (inch)



Area	cm² (square centimeter), m² (square meter), km² (square kilometer), SqFt (square foot)
Volume	cm³ (cubic centimeter), m³ (cubic meter), km³ (cubic kilometer), mL (milliliter), L (liter), gal (gallon)
Mass	μg (microgram), mg (milligram), g (gram), kg (kilogram)
Time	min (minute), sec (second), ms (millisecond)
Electromagnetism	μA (microampere), mA (milliampere), Ω (ohm), Hz (hertz), KHz (kilohertz), MHz (megahertz), GHz (gigahertz), V (volt), kV (kilovolt), kWh (kilowatt-hour)
Sound	dB (decibel)
Atmospheric pressure	Pa (pascal), kPa (kilopascal), Mpa (megapascal)
Chinese unit	This type includes without limitation the Chinese units of the aforementioned units, such as "meter", "second", "dollar", and "milliliter per bottle".

Tag relationships

The <say-as> tag can contain text only.

Sample

cardinal

```
<speak>
<say-as interpret-as="cardinal">12345</say-as>
</speak>
```

Output speech audio: say-as-cardinal.wav

· digits

```
<speak>
<say-as interpret-as="digits">12345</say-as>
</speak>
```

Output speech audio: say-as-digits.wav

• telephone



```
<speak>
<say-as interpret-as="telephone">12345</say-as>
</speak>
```

Output speech audio: say-as-telephone.wav

name

```
<speak>
Her former name is <say-as interpret-as="name">Zeng Xiaofan</say-as>.
</speak>
```

Output speech audio: say-as-name.wav

address

```
<speak>
<say-as interpret-as="address">304, Unit 3, Building 1, No. 10,000, Shennan Bou
levard</say-as>
</speak>
```

Output speech audio: say-as-address.wav

id

```
<speak>
My username is <say-as interpret-as="id">tencent_8858</say-as>
</speak>
```

Output speech audio: say-as-id.wav

characters

```
<speak>
Greek letters <say-as interpret-as="characters">αβ</say-as>
</speak>
```

Output speech audio: say-as-characters.wav

punctuation



```
<speak>
The punctuation mark that I use the most frequently is <say-as interpret-as="pu
nctuation">, </say-as>
</speak>
```

Output speech audio: say-as-punctuation.wav

date

```
<speak>
<say-as interpret-as="date">2020-10-10</say-as>
</speak>
```

Output speech audio: say-as-date.wav

time

```
<speak>
<say-as interpret-as="time">5:30am</say-as>
</speak>
```

Output speech audio: SSML-say-as_time.mp3

currency

```
<speak>
<say-as interpret-as="currency">15,000.00RMB</say-as>
</speak>
```

Output speech audio: say-as-currency.wav

measure

```
<speak>
<say-as interpret-as="measure">100m²15cm²</say-as>
</speak>
```

Output speech audio: say-as-measure.wav