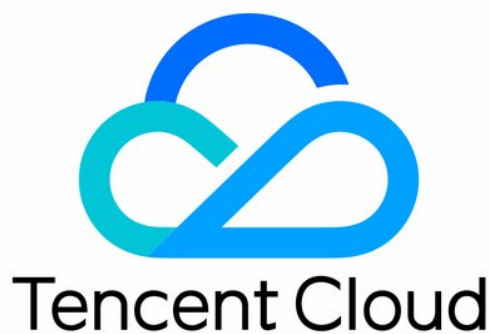


Tencent Cloud AI Digital Human

Digital Human SSML Markup

Language Specification

Product Documentation



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Digital Human SSML Markup Language Specification

Last updated : 2025-03-28 16:41:55

<phoneme>

Description

Used to control the specific pronunciation of text, supporting a length of 1 character.

<Tag Relationship>

Empty tag, only contains text, does not include other tags.

Attribute

Name	Parameter Value	Required or Not	Description
alphabet	py	Yes	Specify the pinyin way
ph	Pinyin string	Yes	Comply with pinyin writing norm Pinyin strings separated by spaces, and the number of pinyin strings is equal to the number of characters. Pinyin consists of pronunciation and tone, with the tone ranging from 1 to 5, representing the first, second, third, fourth tones and the neutral tone respectively.

Example

This bank will periodically upload records to the People's Bank of China every month.

<break>

Description

Tags used for customizing the insertion of pauses in text content except punctuation. Insert after text content except punctuation.

<Tag Relationship>

Empty tag, does not include other tags.

Attribute

Name	Parameter Value	Required	Description
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		or Not	
time	Pause time	No	Specify the duration of the pause at the specific location. The unit is required : ms (millisecond), s (second)
strength	x-weak/weak/medium/strong/x-strong	No	The prosodic property that indicates a pause at the current position defaults to medium.

Example 1

Custom pause <break time="100ms"/> SSML tag

Example 2

Custom pause <break strength="weak"/> SSML tag

<word>**Description**

The word structure used to represent text. This tag is optional. English text usually uses spaces for segmentation. Generally, there is no need to use this tag. The <word> tag must contain an independent word or phrase, which can only be in pure Chinese or pure English, and cannot be mixed Chinese and English.

<Tag Relationship>

Contains text, nestable insert-action.

Attribute

No attribute

Example 1

Mayor of Guangzhou <word>Chimelong Circus</word> Welcomes You

<sub>**Description**

Replace the text in the tag with an alias.

<Tag Relationship>

Contains text, nestable insert-action.

Attribute

Name	Parameter Value	Required or	Description
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		Not	
alias	Replace content	Yes	The specified text to be replaced

Example 1

< speak>< sub alias="Text To Speech">TTS</ sub></ speak>

< say-as>

Description

Used to control the pronunciation of text according to the specified type or rule.

< Tag Relationship>

Only contain text, excluding any tags.

Attribute

Name	Parameter Value	Required or Not
interpret-as	cardinal/digits/telephone/address/id/date/time/punctuation/characters/measure/currency	Yes

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Support Scope of Each Parameter

cardinal

Format	Example	Output
Digit string	123	One hundred and twenty-three
Negative sign + digit string + decimal	-123.01	Negative one hundred and twenty-three point zero one
Negative sign + numeric string	-1487	Negative one thousand four hundred and eighty-seven
Support separators	10,000	Ten thousand

digits

Format	Example	Output
Digit string	123045	123045

telephone

Format	Example	Output	Description
Landline number	5605560	560 5560	Support 7 to 8 digit landline numbers. Space and '-' are supported as delimiters. Among them: The 7-digit
	560 5560	560 5560	
	560-5560	560 5560	
	55605560	5560 5560	

	5560 5560	5560 5560	landline number supports the digit separation method of "3-4". The 8-digit landline number supports the digit separation method of "4-4".
	5560-5560	5560 5560	
Landline number + extension number	55605560-105	5650 5650 Transfer to 105	1. Support extension numbers from 1 to 4 digits. 2. Partial In the pronunciation of the voice type, "transfer" and "extension number" are omitted.
	55605560 transfer 105	5650 5650 Transfer to 105	
	55605560 extension 105	5650 5650 Transfer to 105	
	55605560 extension number 105	5650 5650, extension number 105	
Area code + Landline number	01055605560	Zero one zero, five five six zero, five five six zero	Supported area codes: 010, 02x, 03xx, 04xx, 05xx, 07xx, 08xx, 09xx.
	010 55605560	Zero one zero, five five six zero, five five six zero	
	010-5560-5560	Zero one zero, five five six zero, five five six zero	
	(010)55605560	Zero one zero, five five six zero, five five six zero	
	031955605560	Zero three one nine, five five six zero, five five six zero	
	0319-55605560	Zero three one nine, five five six zero, five five six zero	
Area code + Landline number + Extension number	010 33878528-1054	Zero one zero, three three eight seven, eight five two eight, transfer one zero five four	1. Partial In the pronunciation of the voice type, "transfer"
	010-33878528-1054	Zero one zero, three three	

		eight seven, eight five two eight, transfer one zero five four	and "extension number" are omitted.
	(010)33878528-1054	Zero one zero, three three eight seven, eight five two eight, transfer one zero five four	
	Transfer 1054, (010) 33878528	Zero one zero, three three eight seven, eight five two eight, transfer one zero five four	
	Extension 1054, (010) 33878528	010 3387 8528 extension 1054	
	Extension number 1054, (010) 33878528	010-3387-8528 ext. 1054	
Country code + Area code + Landline number	86-010-33878528	Zero six, two one, three three eight seven, eight five two eight, transfer one zero five four	Support country codes: 86, (86), +86, (+86), 0086. Read as "eight six" uniformly.
	(86)10-33878528	Zero six, zero two one, three three eight seven, eight five two eight, transfer one zero five four	
	+86-010-33878528	Zero six, zero two one, three three eight seven, eight five two eight, transfer one zero five four	
	0086-10-33878528	Zero six, two one, three three eight seven, eight five two eight, extension number one zero five four	
	(+86)-10-3387 8528	Zero six, two one, three three eight seven, eight five two eight, extension number one zero five four	
Country code + Area code + Landline	(86)21-33878528-1054	Zero six, two one, three three eight seven, eight five	Partially

number + Extension number		two eight, transfer one zero five four	In the pronunciation of the voice type, "transfer" and "extension number" are omitted.
	(86)021-3387-8528-1054	Zero six, zero two one, three three eight seven, eight five two eight, transfer one zero five four	
	Transfer 1054, (86) 021-33878528	Zero six, zero two one, three three eight seven, eight five two eight, transfer one zero five four	
	Extension number 1054, (86) 21-3387-8528	Zero six, two one, three three eight seven, eight five two eight, extension number one zero five four	
	+86-021-3387-8528, extension 1054	Zero six, two one, three three eight seven, eight five two eight, extension number one zero five four	
Phone Number	151 8828 1075	Zero five one, eight eight two eight, one zero seven five	Support 11-digit phone numbers and two kinds of number separation methods: 3-3-5, 3-4-4.
	151-882-81075	Zero five one, eight eight two, eight one zero seven five	
	151-8828-1075	Zero five one, eight eight two eight, one zero seven five	
Country code + Mobile number	+86-15188281075	86, zero five one, eight eight two eight, eight one zero seven five	The pronunciation of some voices varies slightly.
	(+86)-151-8828-1075	86, zero five one, eight eight two eight, eight one zero seven five	
	+8615188281075	86, zero five one, eight eight two eight, eight one zero seven five	

	0086-151 882 81075	86, zero five one, eight eight two eight, eight one zero seven five	
Service Account	110	One one zero	<p>1. Support frequently used Service accounts such as 110.</p> <p>2. Support 10-digit Service accounts starting with 400/800, and support the digit separation method of "3-3-4".</p> <p>3. Support 16-digit numbers starting with 12530/17951/12593.</p>
	95566	95566	
	4008110280	400 811 0280	
	800-810-8888	800-810-8888	
	1253013520638377	Zero two five three zero, zero three five, two zero six three, eight three seven seven	
Other	(86)(21)8832-80976-0907	Eight six, two one, eight eight three two, eight zero nine seven six, zero nine zero seven	<p>Support the method of "numeric string + separator (parentheses, -)".</p> <p>The pronunciation of some voice types varies slightly</p>

address

Format	Example	Output	Description
Address format	Sunshine Seaview Building A, Room 3-605	Sunshine Seaview Building A, Room 3-605	<p>Support common address formats. Here, the address refers to the standard mailing address.</p> <p>The pronunciation of some voice types</p>
	No. 1001 - 1008, Lane 388, Xuefu Road	No. 1001-1008, Lane 388, Xuefu Road	

			varies slightly.
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id

Format	Example	Output	Description
New Character String	hello0101	H E L L O 0 1 0 1	Uppercase and lowercase English characters, Arabic numerals 0 to 9, underscore. Insert pause between each character.
	my_id	MY_ID	Partial voice type pronunciation varies slightly.

date

Format	Example	Output	Description
xx year	12 years	1 - 2 Years	The range symbol supports - ~. The abbreviation symbols of year and month format support - /.. The year supports 4-digit and 2-digit years.
	1998	1998	
xx year xx month	April 1998	April 1998	
	January 2008	January 2008	
xx year xx month xx day xx year xx month xx date	August 8, 1998	August 8, 1998	
	January 1, 2020	January 1, 2020	
xx month xx day xx month xx date	August 8th	August 8th	
	August 1st	August 1st	
Abbreviated year and month	2018/08	August 2018	
	2018.08		
Abbreviated year,	2018/08/08	August 8, 2018	

month and day	2018-8-8	
	2018.08.08	
Abbreviated month and day	08/08	August 8th
	08.08	
Date	October 1st - 7th	October 1st to 7th
	October 1st - October 7th	October 1st to October 7th
	October 1st - 7th, 2020	October 1 to 7, 2020
	October 1, 2020 - October 7, 2020	October 1st - October 7th, 2020
	2020/10/1~2020/10/7	October 1st - 7th, 2020
	2020.10.1~2020.10.7	October 1st - October 7th, 2020
	October 1st - October 7th, 2020	October 1st - 7th, 2020
	2020/10/1~10/7	October 1st - 7th, 2020

time

Format	Example	Output
Moment	12:30	Twelve thirty
	10:20:30	Ten twenty thirty
Abbreviated time	5:00am	Five o'clock in the wee hours
	10:50AM	Ten fifty in the morning
	12:30pm	Noon twelve thirty
	6:15PM	Six fifteen in the evening
Time range	10:20~11:20	Ten twenty to eleven twenty
	10:20am~3:10pm	Ten twenty in the morning to three ten in the

		afternoon
	10:20:30-11:20:30	Ten twenty thirty to eleven twenty thirty
	9:00:12am-5:30:12am	Nine o'clock twelve seconds in the morning to five o'clock thirty seconds twelve seconds in the morning

punctuation

Format	Example	Output	Description
Punctuation	...	ellipsis	Support common Chinese and English punctuation. The space in the output means inserting a pause between each character, that is, reading each character one by one. If the text in the tag contains special characters of XML, perform character escapes.
	...	ellipsis	
	!#\$%&	Exclamation point hash dollar percent sign and	
	'()*+	Single quotation marks left parenthesis right parenthesis asterisk plus sign	
	, - . / ;	Comma; hyphen; period; slash; colon; semicolon	
	= ? @	= ? at	

characters

Format	Example	Output	Description
New Character String	Version No. 2.0	Version No. 2.0	Support Chinese characters, uppercase and lowercase English characters, Arabic numerals 0 - 9, as well as some full-width and half-width characters.
	SU M MA000	SU M M A ZERO ZERO ZERO	
	Airbus A330	Airbus A330	
	Models S01, S02 and S03	Model S01, S02 and S03	
	Airbus A330	Airbus A330	

	αβγ	= ? at alpha beta gamma	The space in the output means inserting a pause between each character, that is, reading each character one by one. If the text in the tag contains special characters of XML, perform character escapes. There are 5 commonly used characters: <, >, &, ", ' which correspond to <, >, &, ", ' respectively.
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measure

Format	Example	Output	Description
Digits + Chinese Units	2 shards	2 shards	Support common Chinese units and their abbreviations
	120 hectares	120 hectares	
	Over 100 milligrams	Over 100 milligrams	
	About 100 meters	About 100 meters	
	Over 100 people	Over 100 people	
	1 centimeter and 20 millimeters	One centimeter and twenty millimeters	
	120.00 square kilometers	One hundred and twenty point zero zero square kilometers	
Digits + Unit Abbreviation	100m	One hundred meters	
	12cm	Twelve centimeters	
	6mm	6 millimeters	

Scope	10~15kg	Ten to fifteen kg	
	10.24 to 789.82 mu	Ten point two four to seven hundred and eighty-nine point eight two mu	
	10 to 15 meters	Ten to fifteen meters	
Digits + Unit "/" Unit	10 CNY/jin	10 CNY/jin	
	199 - 299 CNY/item	199 - 299 CNY/item	
Other default pronunciations	12 dozen	Twelve dozen	
	400 million compatriots	Forty million compatriots	
	12.897 micrograms	12.897 micrograms	

currency

Format	Example	Output	Description
Number + Amount Identifier	12.00RMB	RMB 12.00	Support AUD (Australian Dollar), CAD (Canadian Dollar), HKD (Hong Kong Dollar), JPY (Japanese Yen), USD (US Dollar), CHF (Swiss Franc), NOK (Norwegian Krone), SEK (Swedish Krona), GBP (British Pound), RMB (Renminbi), CNY (Yuan) and EUR (Euro).
	12.50RMB	12.50 RMB	
			Supported

			numeric formats include: integers, decimals, and international writing style separated by commas.
Amount Identifier + Number	\$12	Twelve USD	Support CAD (Canadian Dollar), \$ (USD), \$ (USD), Fr (French Franc), kr (Danish Krone), £ (British Pound), ¥ (CNY), ¥ (CNY) and € (Euro). Supported numeric formats include: integers, decimals, and international writing style separated by commas.
	\$12.00	12.00 USD	
	\$12.12	2.12 USD	
Other default pronunciations	1213	One thousand two hundred and thirteen	

Example

<say-as interpret-as="cardinal">-123.01</say-as>, this is a negative number.

<say-as interpret-as="digits">123456</say-as>, this is a string of numbers.

<say-as interpret-as="telephone">18304561111</say-as>, this is a phone number.

<insert-action>

Description

Used to control the anchor to show the specified action at the tag insertion position.

<Tag Relationship>

Empty tag, does not include any tags.

Attribute

Name	Parameter Value	Required or Not	Description
type	Issue enumeration values based on a concrete image	Yes	Action tag content

Example 1

Right hand at the side <insert-action type="right_slide_up"/> sliding upward