



# Currency

Basic information about this plugin:

Plugin Name:	currency
Display Name:	Currency (\$)
Class Name:	com.audium.sayitsmart.plugin-ins.AudiumSayItSmartCurrency

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## Description

This Say It Smart type handles the reading of a currency value in dollars and cents. It only handles dollars and cents, so will work with U.S., Canadian, and other currencies using dollars and cents. The input data can optionally include a dollar sign (\$) and does not need to include a decimal point. The amount can be positive or negative, and can even contain an exponent. The amount can be up to \$999 trillion. The value is read normally, though if one component is zero, it will not be read. If the decimal contains more than two significant digits it will be rounded to the nearest cent.

This plug-in uses the Unified CVP Number Say it Smart plug-in to render the dollar and cent amounts. It uses the same audio files so if recording was done to support Number, those files can be leveraged to support Currency.

## Input Formats

Name (Display Name)	Description
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standard (Standard Currency)	The data can appear as a standard number with or without a minus sign, decimal point, \$ sign, and even an exponent. No commas are allowed.
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## Output Formats

Name (Display Name)	Input Format Depends On	Description
dollars_cents (X dollars and Y cents)	standard	The dollar and cent amounts are read separately.

## Filesets

Name (Display Name)	Output Format Depends On	Description
standard (Standard)	dollars_cents	This fileset involves fewer audio files to render the currency amount but at the cost of sounding a bit robotic. This directly correlates to the Unified CVP Number Say it Smart plug-in's <code>standard</code> fileset.
enhanced (Enhanced)	dollars_cents	This fileset involves more audio files to render a better sounding currency amount. This directly correlates to the Unified CVP Number Say It Smart plug-in's <code>enhanced</code> fileset.

## Audio Files

All audio files must be named as appears below. The names do not have an extension, the developer can choose whatever file type supported by their voice browser.

### Standard Fileset

0	1	2	3	4	5	6	7	8	9
10	11	12	13	14	15	16	17	18	19
20	30	40	50	60	70	80	90	negative	
hundred	thousand	million	billion	trillion	dollars	dollar	and	cents	cent

### Enhanced Fileset

0	1	2	3	4	5	6	7	8	9
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10	11	12	13	14	15	16	17	18	19
20	21	22	23	24	25	26	27	28	29
30	31	32	33	34	35	36	37	38	39
40	41	42	43	44	45	46	47	48	49
50	51	52	53	54	55	56	57	58	59
60	61	62	63	64	65	66	67	68	69
70	71	72	73	74	75	76	77	78	79
80	81	82	83	84	85	86	87	88	89
90	91	92	93	94	95	96	97	98	99
100	200	300	400	500	600	700	800	900	
1000	2000	3000	4000	5000	6000	7000	8000	9000	
negative	thousand	million	billion	trillion	dollars	dollar	and	cents	cent

## Currency Examples

Example #1

Data:	\$25052.085
Input Format:	standard
Output Format:	dollars_cents
Fileset	enhanced
Playback:	“25” “thousand” “52” “dollars” “and” “9” “cents”

Example #2

Data:	0.01
Input Format:	standard
Output Format:	dollars_cents
Fileset	standard
Playback:	“1” “cent”

Example #3

Data:	6.99E4
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Input Format:	standard
Output Format:	dollars_cents
Fileset	standard
Playback:	“60” “9” “thousand” “9” “hundred” “dollars”

## Example #4

Data:	-\$69900
Input Format:	standard
Output Format:	dollars_cents
Fileset	enhanced
Playback:	“negative” “69” “thousand” “900” “dollars”