

AV Text Ministries

Digital-AV

Part-of-Speech (Digital-AV SDK POS Specification)

Revision: #Z07i

POS Tag	Explanation	Usage Example
a-acp	acp word as adverb	I have not seen him since
av	adverb	soon
av-an	noun-adverb as adverb	go home
av-c	comparative adverb	sooner, rather
avc-jn	comparative adj/noun as adverb	deeper
av-d	determiner/adverb as adverb	more slowly
av-dc	comparative determiner/adverb as adverb	can lesser hide his love
av-ds	superlative determiner as adverb	most often
av-dx	negative determiner as adverb	no more
av-j	adjective as adverb	quickly
av-jc	comparative adjective as adverb	he fared worse
av-jn	adj/noun as adverb	duly, right honourable
av-js	superlative adjective as adverb	in you it best lies
av-n1	noun as adverb	had been cannibally given
av-s	superlative adverb	soonest
avs-jn	superlative adj/noun as adverb	hee being the worthylest constant
av-vvg	present participle as adverb	lovingly
av-vvn	past participle as adverb	Stands Macbeth thus amazedly
av-x	negative adverb	never
c-acp	acp word as conjunction	since I last saw him
cc	coordinating conjunction	and, or
cc-acp	acp word as coordinating conjunction	but
c-crq	wh-word as conjunction	when she saw
ccx	negative conjunction	nor
crd	numeral	2, two, ii
cs	subordinating conjunction	if
cst	'that' as conjunction	I saw that it was hopeless
d	determiner	that man, much money
dc	comparative determiner	less money
dg	determiner in possessive	use the latter's
ds	superlative determiner	most money
dt	article	a man, the man
dx	negative determiner as adverb	no money
fw-es	Spanish Word	Yo
fw-fr	French word	toi
fw-ge	German word	Herr
fw-gr	Greek word	kurios
fw-it	Italian word	signor
fw-la	Latin word	dominus
fw-mi	word in unspecified other language	n/a
j	adjective	beautiful
j-av	adverb as adjective	the then king
jc	comparative adjective	handsomer

POS Tag	Explanation	Usage Example
jc-jn	comparative adj/noun	yet she much whiter
jc-vvg	present participles as comparative adjective	for what pleasinger then varietie, or sweeter then flatterie?
jc-vvn	past participle as comparative adjective	shall find curster than she
j-jn	adjective-noun	the sky is blue
j-u	adjective with un- prefix	unclean, unstable, unblameable
j-vvnu	adjective from verb with un-prefix	unmarried
jp	proper adjective	Athenian philosopher
js	superlative adjective	finest clothes
js-jn	superlative adj/noun	reddest hue
js-vvg	present participle as superlative adjective	the lyingest knave in Christendom
js-vvn	past participle as superlative adjective	deformed'st creature
j-vvg	present participle as adjective	loving lord
j-vvn	past participle as adjective	changed circumstances
n1	singular noun	child
n1-an	noun-adverb as singular noun	my home
n1-j	adjective as singular noun	a good
n1vbz	verb as singular noun	lord, shoe, work
n2	plural noun	children
n2-acp	acp word as plural noun	and many such-like As'es of great charge
n2-an	noun-adverb as plural noun	all our yesterdays
n2-av	adverb as plural noun	and are etcecteras no things
n2-dx	determiner/adverb negative as plural noun	yeas and honest kerysey noes
n2-j	adjective as plural noun	give me particulars
n2-jn	adj/noun as plural noun	the subjects of his substitute
n2-vg	present participle as plural noun	'do' doings
n2-vhg	present participle as plural noun,	'have' my present havings
n2-vvg	present participle as plural noun	the desperate languishings
n2-vvn	past participle as plural noun	there was no necessity of a Letter of Slains for Mutilation
ng1	singular possessive noun	child's
ng1-an	noun-adverb in singular possessive use	Tomorrow's vengeance
ng1-j	adjective as possessive noun	the Eternal's wrath
ng1-jn	adj/noun as possessive noun	our sovereign's fall
ng1-vvn	past participle as possessive noun	the late lamented's house
ng2	plural possessive noun	children's
ng2-jn	adj/noun as plural possessive noun	mortals' chiefest enemy
n-jn	adj/noun as noun	a deep blue
njp	proper adjective as noun	a Roman
njp2	proper adjective as plural noun	The Romans
njpg1	proper adjective as possessive noun	The Roman's courage
njpg2	proper adjective as plural possessive noun	The Romans' courage
np1	singular proper noun	Paul
np2	plural proper noun	The Nevils are thy subjects

POS Tag	Explanation	Usage Example
npg1	singular possessive proper noun	Paul's letter
npg2	plural possessive proper noun will	take the Nevils' part
np-n1	singular noun as proper noun	at the Porpentine
np-n2	plural noun as proper noun	such Brooks are welcome to me
np-ng1	singular possessive noun as proper noun	and through Wall's chink
np1-n	ordinary noun being used as proper noun	@
n-vdg	present participle as noun	'do' my doing
n-vhg	present participle as noun	'have' my having
n-vvg	present participle as noun	the running of the deer
n-vvn	past participle as noun	the departed
ord	ordinal number	fourth
p-acp	acp word as preposition	to my brother
pc-acp	acp word as particle	todo
pi	singular indefinite pronoun	one, something
pi2	plural indefinite pronoun	from wicked ones
pi2x	plural indefinite pronoun	to hear my nothings monstered
pig	singular possessive indefinite pronoun	the pairings of one's nail
pigx	possessive case, indefinite pronoun	nobody's
pix	indefinite pronoun	none, nothing
pn22	2nd person, personal pronoun	you
pn31	3rd singular, personal pronoun	it
png11	1st singular possessive, personal pronoun	a book of mine
png12	1st plural possessive, personal pronoun	this land of ours
png21	2nd singular possessive, personal pronoun	this is thine
png22	2nd person possessive, personal pronoun	this is yours
png31	3rd singular possessive, personal pronoun	a cousin of his
png32	3rd plural possessive, personal pronoun	this is theirs
pno11	1st singular objective, personal pronoun	me
pno12	1st plural objective, personal pronoun	us
pno21	2nd singular objective, personal pronoun	thee
pno31	3rd singular objective, personal pronoun	him, her
pno32	3rd plural objective, personal pronoun	them
pns11	1st singular subjective, personal pronoun	I
pns12	1st plural subjective, personal pronoun	we
pns21	2nd singular subjective, personal pronoun	thou
pns31	3rd singular subjective, personal pronoun	he, she
pns32	3rd plural objective, personal pronoun	they
po11	1st singular, possessive pronoun	my
po12	1st plural, possessive pronoun	our
po21	2nd singular, possessive pronoun	thy
po22	2nd person possessive pronoun	your
po31	po31 3rd singular, possessive pronoun	its, her, his
po32	po32 3rd plural, possessive pronoun	their

POS Tag	Explanation	Usage Example
pp	pp preposition	in
pp-f	pp-f preposition 'of'	of
px11	px11 1st singular reflexive pronoun	myself
px12	px12 1st plural reflexive pronoun	ourselves
px21	px21 2nd singular reflexive pronoun	thyself, yourself
px22	px22 2nd plural reflexive pronoun	yourselves
px31	px31 3rd singular reflexive pronoun	herself, himself, itself
px32	px32 3rd plural reflexive pronoun	themselves
pxg21	2nd singular possessive, reflexive pronoun	yourself's remembrance
q-crq	interrogative use, wh-word	Who? What? How?
r-crq	relative use, wh-word	the girl who ran
ro-crq	objective use, wh-word	whom, whomsoever
qo-crq	wh-word	whom
rg-crq	wh-word	whose
n-crq	wh-word	wherewithal
sy	alphabetical or other symbol	#, \$, %
uh	interjection	oh!
uh-av	adverb as interjection	Well!
uh-crq	wh-word as interjection	Why, there were but four
uh-dx	negative interjection	No!
uh-j	adjective as interjection	Grumio, mum!
uh-jn	adjective/noun as interjection	And welcome, Somerset
uh-np	noun as interjection	Bar-Jesus (the title of a sorcerer in Acts 13:6)
uh-n	noun as interjection	Soldiers, adieu!
uh-v	verb as interjection	My gracious silence, hail
uh-x	negative word as interjection	nay
vb2	2nd singular present of 'be'	thou art
vb2-imp	2nd plural present imperative, 'be'	Beth pacient
vb2r	verb	art
vb2x	2nd singular present, 'be'	thow nart yit blisful
vbb	present tense, 'be'	are, be
vbbx	present tense negative, 'be'	aren't, ain't, beant
vbd	past tense, 'be'	was, were
vbdx	past tense, singular 'be'	was
vbd2s	past tense, 2nd-singular 'be'	wast
vbdx	past tense, plural 'be'	were
vbd2r	past tense, 2nd-singular 'be'	wert
vbd2	2nd singular past of 'be'	thou wast, thou wert
vbd2x	2nd singular past, 'be'	weren't
vbdp	plural past tense, 'be'	whose yuorie shoulders weren couered all
vbdx	past tense negative, 'be'	wasn't, weren't
vbg	present participle, 'be'	being

POS Tag	Explanation	Usage Example
vbi	infinitive, 'be'	be
vbm	1st singular, 'be'	am
vbm _x	1st singular negative, 'be'	I nam nat lief to gabbe
vbn	past participle, 'be'	been
vbp	plural present, 'be'	Thise arn the wordes
vbr	be'	am, are, were
vbz	3rd singular present, 'be'	is
vbz _x	3rd singular present negative, 'be'	isn't
vd2	2nd singular present of 'do'	dost
vd2-imp	2nd plural present imperative, 'do'	Dooth digne fruyt of Penitence
vd2 _x	2nd singular present negative, 'do'	thee dostna know the pints of a woman
vdb	present tense, 'do'	do
vdb _x	present tense negative, 'do'	don't
vdd	past tense, 'do'	did
vdd2	2nd singular past of 'do'	didst
vdd2 _x	2nd singular past negative, verb	Why, thee thought'st Hetty war a ghost, didstna?
vddp	plural past tense, 'do'	on Job, whom that we diden wo
vdd _x	past tense negative, 'do'	didn't
vdg	present participle, 'do'	doing
vdi	infinitive, 'do'	to do
vdn	past participle, 'do'	done
vdp	plural present, 'do'	As freendes doon whan they been met
vdz	3rd singular present, 'do'	does
vdz _x	3rd singular present negative, 'do'	doesn't
vh2	2nd singular present of 'have'	thou hast
vh2-imp	2nd plural present imperative, 'have'	O haveth of my deth pitee!
vh2 _x	2nd singular present negative, 'have'	hastna
vhb	present tense, 'have'	have
vhb _x	present tense negative, 'have'	haven't
vhd	past tense, 'have'	had
vhd2	2nd singular past of 'have'	thou hadst
vhdp	plural past tense, 'have'	Of folkes that hadden grete fames
vhd _x	past tense negative, 'have'	hadn't
vhg	present participle, 'have'	having
vhi	infinitive, 'have'	to have
vhn	past participle, 'have'	had
vhp	plural present, 'have'	They han of us no jurisdiccoun
vhz	3rd singular present, 'have'	has, hath
vhz _x	3rd singular present negative, 'have'	Ther loveth noon, that she nath why to pleyne
vm2	2nd singular present of modal verb	wilt thou
vm2 _x	2nd singular present negative, modal verb	O deth, allas, why nyltow do me deye
vmb	present tense, modal verb	can, may, shall, will

POS Tag	Explanation	Usage Example
vmb1	1st singular present, modal verb	Chill not let go, zir, without vurther 'cagion
vmbx	present tense negative, modal verb	cannot; won't; I nyl nat lye
vmd	past tense, modal verb	could, might, should, would
vm2	2nd singular, modal verb	wilt, canst, shalt, mayest
vmd2	2nd singular past of modal verb	couldst, shouldst, wouldst; how gret scorn woldestow han
vmd2x	2nd singular present, modal verb	Why noldest thow han writen of Alceste
vmdp	plural past tense, modal verb	tho thinges ne scholden nat han ben doon
vmdx	past negative, modal verb	couldn't; She nolde do that vileynye or synne
vmi	infinitive, modal verb	Criseyde shal nought konne knowen me.
vmn	past participle, modal verb	I had oones or twyes ycould
vmp	plural present tense, modal verb	and how ye schullen usen hem
vv2	2nd singular present of verb	thou knowest
vv2-imp	2nd present imperative, verb	For, sire and dame, trusteth me right weel
vv2x	2nd singular present negative, verb	Yee! seyde he, thow nost what thow menest;
vvb	present tense, verb	they live
vvbz	present tense negative, verb	What shall I don? For certes, I not how
vvd	past tense, verb	knew
vvd2	2nd singular past of verb	knewest
vvd2x	2nd singular past negative, verb	thou seidest that thou nystist nat
vvdz	past plural, verb	They neuer strouen to be chiefe
vvdz	past tense negative, verb	she caredna to gang into the stable
vvg	present participle, verb	knowing
vvi	infinitive, verb	to know
vvn	past participle, verb	known
vvp	plural present, verb	Those faytours little regarden their charge
vvz	3rd singular present, verb	knows
vvzx	3rd singular present negative, verb	She caresna for Seth.
xx	negative	not
zz	unknown or unparsable token	n/a

The Digital-AV utilizes the part-of-speech (POS) tags, sentence segmentation, and Lemmatization as provided by the MorphAdorner POS-tagger. <http://morphadorner.northwestern.edu/morphadorner/>. POS tagging of the bible verses themselves is performed during SDK compilation. In order to minimize the number of unknown words. Moreover, Hitchcock's Bible Name Dictionary and other proper noun lookups can explicitly override POS settings from MorphAdorner. Later releases may perform this type of override on pronouns and other archaic words if any anomalies in the POS tags are subsequently discovered. Accordingly, it should be noted that while the table depicts an accurate mapping of Digital-AV bits from/to standard POS tags, some bits get set by the SDK compiler.

Insight into Part-of-Speech mapping to WordClass bitwise definitions can be found in the Excel spreadsheet named: [SDK-POS-WordClass.xlsx](#). Not all files in github are part of the SDK. Only files described in Digital-AV.pdf are actually part of an SDK release. Other files in here are used to generate this and future revisions. Still they are here for informational purposes.

POS (i.e. WordClass) Summary (not entire range of values):

Description	Low-3 Nibbles
NounOrPronoun	0x-03-
Noun	0x-01-
Noun: unknown gender	0x-010
Proper Noun	0x-03-
Pronoun	0x-02-
Pronoun: Neuter	0x-021
Pronoun: Masculine	0x-022
Pronoun: Non-feminine*	0x-023
Pronoun: Feminine	0x-024
Pronoun/Noun: Genitive	0x-0-8
Pronoun: Nominative	0x-06-
Pronoun: Objective	0x-0A-
Pronoun: Reflexive	0x-0E-
Pronoun: no case/gender	0x-020
Verb	0x-1--
<i>to</i>	0x-200
Preposition	0x-400
Interjection	0x-800
Adjective	0x-A00
Numeric	0x-B00
Conjunction	0x-C0-
Determiner	0x-D0-
Particle	0x-E00
Adverb	0x-F00

PN nibble (applies to verbs and pronouns, nouns, and proper nouns only):

Description	High Nibble
Person bits	0x3 (0b--11)
Number bits	0xC (0b11--)
Indefinite	0x0 (0b--00)
1 st Person	0x1 (0b--01)
2 nd Person	0x2 (0b--10)
3 rd Person	0x3 (0b--11)
Singular	0x4 (0b01--)
Plural	0x8 (0b10--)
WH*	0xC (0b00--)