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 |
| 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 |
| n11vbz | 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-vdg | 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 |
| 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 |
| 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 |
| vbds | past tense, singular 'be' | was |
| vbd2s | past tense, 2nd-singular 'be' | wast |
| vbdr | 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 |
| vbi | infinitive, 'be' | be |
| vbm | 1st singular, 'be' | am |
| vbmx | 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 |
| vbzx | 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 |
| vd2x | 2nd singular present negative, 'do' | thee dostna know the pints of a woman |
| vdb | present tense, 'do' | do |
| vdbx | present tense negative, 'do' | don't |
| vdd | past tense, 'do' | did |
| vdd2 | 2nd singular past of 'do' | didst |
| vdd2x | 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 |
| vddx | 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 |
| vdzx | 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! |
| vh2x | 2nd singular present negative, 'have' | hastna |
| vhb | present tense, 'have' | have |
| vhbx | 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 |
| vhdx | 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 jurisdiccioun |
| vhz | 3rd singular present, 'have' | has, hath |
| vhzx | 3rd singular present negative, 'have' | Ther loveth noon, that she nath why to pleyne |
| vm2 | 2nd singular present of modal verb | wilt thou |
| vm2x | 2nd singular present negative, modal verb | O deth, allas, why nyltow do me deye |
| vmb | present tense, modal verb | can, may, shall, will |
| 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 |
| vvbx | 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 |
| vvdp | past plural, verb | They neuer strouen to be chiefe |
| vvdx | 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 preseent, verb | knows |
| vvzx | 3rd singular present negative, verb | She caresna for Seth. |
| xx | negative | not |
| zz | unknown or unparsable token | n/a |

The Digitial-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-- |
| *to* | | | 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) |
| 1st Person |  | 0x1 (0b--01) |
| 2nd Person |  | 0x2 (0b--10) |
| 3rd Person |  | 0x3 (0b--11) |
| Singular |  | 0x4 (0b01--) |
| Plural |  | 0x8 (0b10--) |
| WH\* |  | 0xC (0b00--) |