

MetatMap Migration to Lexical Tools Java APIs – Functional Requirements

Test log	Functional Description	Requirements: Algorithm & Lexical Tools APIs	Test (word)	Test (base) (419,749)	Test (spVar) (529,820)
test_bff.log	<ul style="list-style-type: none"> Retrieve all uninflected (base) forms, including citation forms and its spelling variants Not case sensitive (of the input) Include input term is not in LEXICON 	<ul style="list-style-type: none"> If it is in Lexicon: <ul style="list-style-type: none"> Retrieve all base forms (-f:b) Retrieve all spelling variants of the retrieved base forms with category and inflection (-f:s) Remove duplicated results Convert results to ASCII else: <ul style="list-style-type: none"> Retrieve all base forms by rules (-f:b) ? No spelling variants (since it is not known by LEXICON) lvg -f:b:s toAscii 	<ul style="list-style-type: none"> Candomble Styrenation Munoz-gonzalez Spiculoptera bohmi Saw AAAS Bacteria manikin sheep cattle mankind SawSaw 	<ul style="list-style-type: none"> 145 (from 774) All 145 (non-Ascii) Eg. Boecking 	<ul style="list-style-type: none"> 387 260 (ASCII: not in LEXICON) 7 (ASCII: new relationship) 120 (problems in C inflectional morphology)
test_cff.log	<ul style="list-style-type: none"> Retrieve citation form 	<ul style="list-style-type: none"> Retrieve citation form Convert result to ASCII Return null if no citation found lvg -f:Ct toAscii 	<ul style="list-style-type: none"> mum (E0041164) muTBS (E0659182) 	<ul style="list-style-type: none"> 32 (from 304) 26 (ASCII: not known to LEXICON) 4 (ASCII: data) 2 (ASCII: C bug) 	<ul style="list-style-type: none"> 267 260 (ASCII: not in Lexicon) 7 (ASCII: new relationship)
test_dmv.log	<ul style="list-style-type: none"> Retrieve derivational variants Not case sensitive of input Use no restriction rules (-kd:3) Apply min. term length (default = 3) Apply min. stem length (default = 3) 	<ul style="list-style-type: none"> If it is in Lexicon (-f:Ln): <ul style="list-style-type: none"> Retrieve all categories and inflections (-f:Ln) Retrieve all derivational variants with category and inflection (-f:d) Remove duplicated results Convert results to ASCII else: <ul style="list-style-type: none"> Retrieve all possible categories and inflections (-f:L) Follow above steps after step-1 	<ul style="list-style-type: none"> zonated zap Eastwards Zoic Red Rist SawSaw 	<ul style="list-style-type: none"> 732 (from 419,502) 732 (difference of derivational facts) Expect 732 to go higher after fixing bugs (several) 	<ul style="list-style-type: none"> TBD

	<ul style="list-style-type: none"> • Include input term is not in LEXICON 	<ul style="list-style-type: none"> • lvg -f:Ln:d -kd:3 (in Lexicon) • lvg -f:L:d -kd:3 (not in Lexicon) • ToAscii 		thousands)	
test_dmvR.log	<ul style="list-style-type: none"> • Retrieve derivational variants that are known to LEXICON • Include input term is not in LEXICON 	<ul style="list-style-type: none"> • lvg -f:Ln:d -kd:3 • ToAscii • lvg -f:E 	<ul style="list-style-type: none"> • see dmv 	<ul style="list-style-type: none"> • TBD 	<ul style="list-style-type: none"> • TBD
test_lfc.log	<ul style="list-style-type: none"> • Retrieve categories • Include input term is not in LEXICON 	<ul style="list-style-type: none"> • If it is in Lexicon (-f:Ln): <ul style="list-style-type: none"> ▪ Retrieve categories from LEXICON (-f:Ln) • else: <ul style="list-style-type: none"> ▪ Retrieve possible categories from rules (-f:L) 	<ul style="list-style-type: none"> • See bff 	<ul style="list-style-type: none"> • 26 to 26 • All 26 (non-ASCII) 	<ul style="list-style-type: none"> • 260 • All 260 (non-ASCII)
test_vcf.log	??	<ul style="list-style-type: none"> • lvg -f:i:s • lvg -f:Ct • toAscii 	<ul style="list-style-type: none"> • 	<ul style="list-style-type: none"> • TBD 	<ul style="list-style-type: none"> • TBD
test_vf.log	<ul style="list-style-type: none"> • Retrieve all inflectional variants, including spelling variants. • Include input term is not in LEXICON 	<ul style="list-style-type: none"> • If it is in Lexicon (-f:Ln): <ul style="list-style-type: none"> ▪ Retrieve all spelling variant with category and inflection (-f:s) ▪ Retrieve all inflectional variants of the retrieved spelling variants with category and inflection (-f:i) ▪ Use restriction option 2 (LEXICON then rules, -ki:2) ▪ Convert inflections to simple inflections ▪ Mark spelling variants ▪ Remove duplicated results ▪ Convert results to ASCII • else: <ul style="list-style-type: none"> ▪ Retrieve inflectional variants (-f:i) ▪ Follow above steps after step-2. • lvg -f:i:s or -f:s:i • toAscii 	<ul style="list-style-type: none"> • See bff 	<ul style="list-style-type: none"> • 40248 to 126,823 (bug fixed) 	<ul style="list-style-type: none"> • TBD
c_lex_from_input	??	??	<ul style="list-style-type: none"> • TBD 	<ul style="list-style-type: none"> • TBD 	<ul style="list-style-type: none"> • TBD