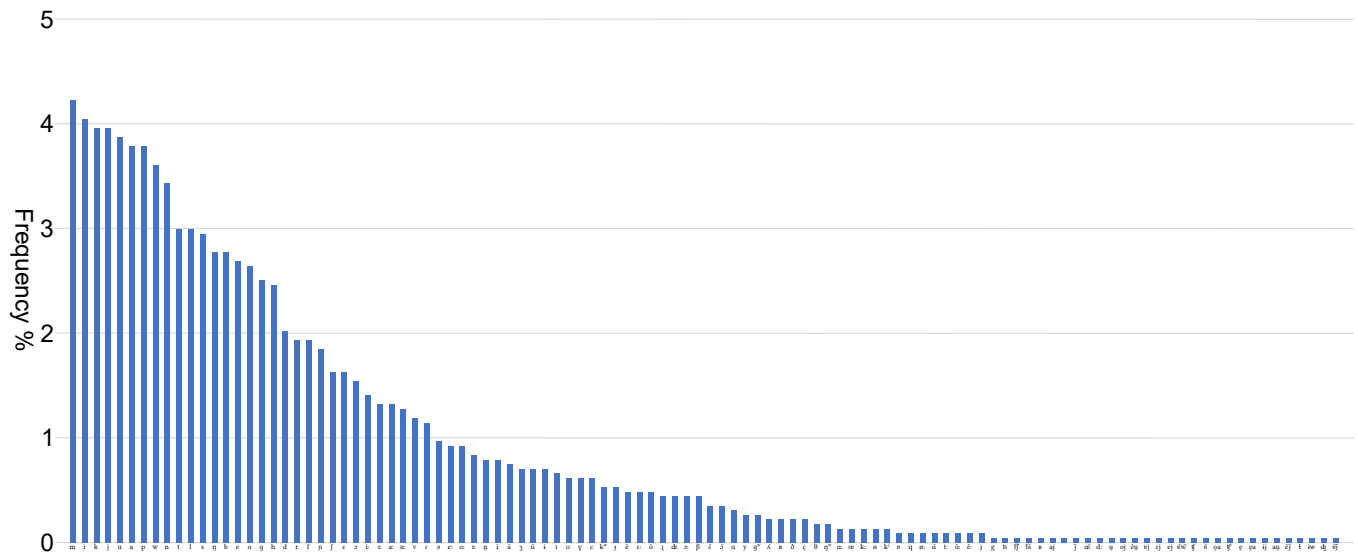


## Appendix 1 - Prior Segment Frequencies

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## Appendix 2 - Symbols

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$\Psi$	<b>Phylogeny</b> The (possibly unknown) relationship between entities resulting from an evolutionary tree
$\tau$	<b>Tree topology</b> Information on the relationships of the languages
$\mu$	<b>Substitution rate</b> the rate at which the language changes
$N$	<b>Sampled languages</b> The number of languages in a sample
$\nu$	<b>Expected events</b> The expected number of evolutionary events that occurred between two languages
$t$	<b>Past times</b> Times of branch events
$B$	<b>Possible rooted trees</b>
$A$	<b>Segmental alignment</b> Constructed by combining the word segment information for the languages of interest with information on the homology of the segments
$S$	<b>Segmental information</b> Information on the homology of the segments
$s$	<b>Segment</b> Linguistic segment
$s_i$	<b>ith segment</b>
$H$	<b>Homology map</b> The map describing the alignment of the segments
$Q$	<b>Rate Matrix</b>
$\beta$	<b>Rate matrix scaling factor</b> Scales the rate matrix such that the average rate of segmental substitution is one
$P$	<b>Probability</b> The probability the process ends in certain state
$P$	<b>Marginal Likelihood</b>

## Appendix 2 - Symbols

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$\pi$	Equilibrium distribution
$\lambda$	Rate of segment insertion
$\mu$	Rate of segment deletion
$n$	Word length Number of segments in a word
$r$	Rate parameter
$\theta$	Rate parameters Parameters associated with the rate matrix
$\theta \boxtimes$	Proposal New value proposal
$q$	Proposal probability Probability of new proposal
$u$	Random number
$R$	Acceptance probability Probability of accepting a proposed value
$M$	Model Mathematical model for linguistic parameters
$BF$	Bayes Factor A numerical factor related to the quality of the model fit
$X$	Unknown

### Appendix 3 - Segments used in the word list

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Words containing this segment
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### Appendix 3 - Segments used in the word list

0	e	ego:, ew, jew, ei:, ełos, elis, elif, este, kwesto, ille, ese, kwello, usted, vose, vose, voste, el, eli, eli, embra, femmina, femer, femjə, fembra, femeje, mulierem, muxer, μοῦλε, μυλε, μυλε, muler, mulē, mujere, done, hominem, ombre, infantem, infante, fante, nenēj, nen, epuz, esposa, mulier, muxer, μοῦλε, μυλε, muler, mulē, mujere, epu, esposo, ma:trem, mek, maðre, ma:dre, mer, patre, pek, paðre, pa:dre, nema:l, nəmajə, piskem, peθ, peffe, pef, pefte, awem, abe, awikellum, useł, passerem, passero, pasəre, kanem, kane, kijne, peduklus, pedoli, pədukje, serpentem, sekpā, serpjente, serpente, sekpēfi, sərpen, farpe, serpens, sjerpe, serpe, serp, farpe, wermem, vək, berme, verme, vəkmi, vermi, vjerme, arborem, albergo, arbore, selba, selva, selve, se:men, seme, sementis, simjente, semente, semēfi, səmen, semenfe, fwee, fəaje, frondea, ra:di:kem, ra:di:ke, radi:fe, kortikem, kortitfe, kortikea, korteθa, kortettfa, skortea, ekoks, skwartse, flo:rem, fjo:re, flqare, herba, jerba, eəvə, erbə, jarbe, gra:men, kwerða, kotenna, pellem, pjel, pelle, peli, peł, pjele, karne, karne, sangwinem, sangre, sangwe, sindze, weso, adeps, gres, webo, kwerno, penna, peja, penə, pen, pene, pelo, pelu, kabejo, kapello, kabelu, kəbelu, kaβeθa, kavettsa, kabese, kəβese, testa, testə, teste, orexa, orekkja, orele, orele, ureke, ne, nariffe, gəle, dentē, djente, dente, dinte, ungje, pedē, pje, pjə:de, pjerna, pekvə, 'jaŋwə, genu:, zuełu, ɕe'noli, ɕenunkɕ, el, ale, wenter, pantse, intesti:no, kwejo, epol, espalda, spate, seno, sen, pektus, pefo, pjept, kwore, anime, fegato, fedə, so:lem, sole, sqare, soreli, lune, etwal, estreja, stella, istrelə, iftrele, stele, age, ploje, plqaje, flu:men, fjume, vjvje, mare, mek, sa:lem, sale, se, sare, petra, pjek, pjeðra, pedre, peðrə, pjere, lapidem, laude, lapide, arena, ərenə, pulwerem, polvere, pulbere, terra, tek, tjera, tevk, tjere, nube, ka:li:ginem, kaliɕine, nebula, njebła, nebbja, newlə, negurə, tene:braj, tenebre, tene:bra:s, tenevk, tinjeblas, tenebre, tenebrəs, fyne, fumate, 0jelo, tjer, wentum, bjento, ben, niwem, njebe, neve, new, gelu:, jelo, ɕjer, fwego, kinerem, tjerene, θeniθa, tjeruɕ, estrada, montem, monte, monta:nea, montaje, noctem, nofe, notte, nqapte, zurne, dzornade, nomen, no:me, nume, no:minem, nombre, ombre, lengwa, bibere, beber, bere, bebek, biβer, bevi, komedere, komer, kome, kumer, manduka:re, mǎze, mandzare, morde:re, morðer, mɔrdere, mɔvde, muðer, morsika:re, morsikare, murseka, su:gere, syse, suɕe, konspuere, kɔspye, eskupir, sputere, esputar, sputare, womere, vomitare, fla:re, sufle, soffjare, spi:ra:re, vspiwe, respirar, respirare, vspirar, vspiwe, respira:, arespira, riide:re, reir, ridere, aride, wide:re, ber, vede:re, vek, ver, aveɕa, auɕi:re, uɕi:re, ski:re, sapere, saber, sabe, seber, kogno:skere, konɔðer, konoffere, kopese, kupiser, kunqapte, ko:gi:ta:re, kɕide, koɕitare, kuɕeta, pe:nsa:re, pāse, pensar, pensare, pēse, peŋsa:, senti:re, sentir, sentire, ole:re, oler, olire, odo:ra:re, odorare, fra:gra:re, fləve, fragrare, time:re, temer, temere, temek, timer, temə, temi, teme, tremere, tremar, tremare, tremek, trimer, dormi:re, dormire, wi:were, vivere, vivek, viver, morire, mɔvde, muxer, nekare, nwaje, neka, anegar, annegare, tje, tuwe, makta:re, mate, okki:dere, utfidere, ufide, pugna:re, puɕpare, battuere, battere, batek, bəter, bate, kaptia:re, fase, katfare, pulsa:re, puse, pulsare, seka:re, sje, segar, segare, segav, sea:, kurta:re, ekskurta:re, ekuɕte, skortare, ta:lia:re, taje, tałła:re, di:widere, dividere, divide, skindere, sēde, findere, findere, ender, fendere, fēdek, fēder, parti:re, partire, se:para:re, səvə, separar, separare, separav, separa:, separa, pungere, puɕɕere, puɕɕe, jugula:re, zygye, jugula:re, ra:dere, raer, radere, vək, vək, rade, vəkze, rasare, fodere, kaware, kavare, ɕa:vle, ekskaware, eskabar, skavare, nata:re, nwotare, naviga:re, naɕe, nabegar, navigare, wola:re, vole, volare, vɔle, zvolare, fəmine, kamminare, tfinine, makfe, mergere, merɕere, merɕe, ambita:re, andare, weni:re, benir, venire, veni, ekstendere, etādv, ekstender, estendere, istēdek, iftēder, əstendrə, ekstinde, jake:re, zeziv, jaðer, ɕaɕfe:re, zəvek, zəzer, ɕgere, jesi, sede:re, ser, sedere, se, sedə, sedenta:re, sentar, senta:, sta:re, estar, stare, leva:re, ləve, jebar, levare, levav, leva:, altia:re, ose, altsare, torna:re, tuvkne, tornare, tu:rne, gyra:re, zivə, ɕjare, vire, virare, torkw:re, torðer, tɔrtfere, turser, tɔartfe, kadere, kaer, kadere, tɕjade, tɔbe, tume, dare, donare, done, dine, tene:re, tener, tenere, te, ter, tsine, segurar, eksprimere, epēdv, ekspremir, spremere, ifprəmek, ifprəmer, əspremə, esprimi, skreme, serrere, serar, seka, serare, seve, 0erar, serrare, sere, appetkora:re, apretar, stringere, etēdv, estreɕir, strinɕere, stringe, strinɕe, frika:re, fkeje, fregar, fregar, frea, freka, frikta:re, frote, frettare, lawa:re, lave, lavare, tergere, tərɕere, ekstergere, estarsir, fterɕe, eksu:ka:re, esujje, enxugar, afjugare, suwe, limpida:re, tira:re, tivə, tirare, tire, puse, trahere, trarre, traze, trəzer, traɕe, impingere, impinɕere, impinɕe, jakta:re, zote, etjar, ɕettare, ɕete, lankea:re, löse, lanfare, erunka:re, arronfare, ligare, lie, legar, legare, lea:, lega, apta:re, ko:nsuere, koser, kutfire, kuzer, ɕase, komputa:re, kote, kontare, e:numera:re, enumeve, enumerar, enumerare, enumera, di:kere, deθir, dire, dizer, zife, eksponere, sporre, spune, kanta:re, fāte, kantare, tɕāte, lu:dere, joka:re, zve, ɕokare, ɕuwe, flu:ktua:re, flyktje, fluttuare, fluita:re, fluitare, fluere, flye, fluire, ko:la:re, kule, kolare, kole, ekskurrere, eskurir, skorrere, ifkovek, ifkurer, skurɕe, kurrere, korer, korrere, kovək, kuver, kurɕe, gelare, zale, elar, ɕelare, ɕale, glakia:re, glase, gjatffjare, inglakia:re, ingetsa, augmenta:re, ogmāte, aumantar, aumantare, augmentar, augmenta, infla:re, ofle, enfiare, efle, enfla:, konfla:re, gōfle, gonffjare, intume:skere, entumeθer, itumeser, kre:ske:re, kreθer, kreffere, kresek, krifser, kreɕ, kreftə, bəyle, brutfare, bu:le, krema:re, kvame, kemar, kremare, kejmare, kejkame, flamma:re, flābe, flamear, fiammare, arde:re, arder, ardere, avde, vder, arde, flagra:re, flagve, flagrare, inkendere, ēsāɕje, enθender, infendjare, isenɕjar, ənsendrə, infinɕe, ustula:re, ustolare, alter, grandem, grande, grande, majjo:rem, mare, le, epe, espeso, spesso, epəsu, ifpesu, grabe, greve, grew, grew, lerdo, pesaɕo, pesante, pezadu, pezent, pekepo, pekenu, pikenu, brewis, brebe, breve, brew, bref, etrwa, estrefo, stretto, menudo, delyaɕo, delikato, dewgadu, subti:lem, sottile, subtsire, fred:o, refe, leno, nweβo, wetum, bjexo, vełu, 'vjeri, vekɕ, bwenno, move, putred, rekto, direktu, drept, reɕondo, hebes, emuse, segu, seyu, neted, muje, seko, sekko, seku, sek, korretto, pve, 0erka, pektu, pertu, aprqape, lexos, departe, dekstrum, djestro, destrə, derefo, iθkjerða, ifkerðv, vermikulus, bermexo, vermíλλo, vevmełu, rubeus, rubeo, ruɕe, viridem, vek, berde, verde, verdi, galben, amarellus, krokeus, krotfe, negro, negro, negru, neri, prjeto, pretu, due, tres, tre, tref, k'inkw'e, tɕjnkwe, ekkumhi:k, k'em, kjen, tfinie, ke, tfe, ove, unde, onde, deunde, donde, kome, tjemut, nek, ne, en, deintus, avek, et, e, se, ke, porke, perke, purke
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### Appendix 3 - Segments used in the word list

1	g	ego:, gra: num, gʁen, grano, grano, grēw, gra, griw, gʁamen, grēmē, grēmē, gram, sangre, sangwe, sēgi, sēgi, gʁes, grasa, grasso, goʁdure, gurdure, gœl, gø:j, ōgl, ungja, gamba, genu:, fegato, figedu, agwē, lago, lagu, ka:li:ginem, negurā, gelu:, fwego, fogu, lāg, lengwa, lingwa, ligwē, musāga, musāgar, su:gere, sugaʁ, sugar, kogno:skere, ko:gita:re, fra:gra:re, nāga, anegar, annegar, segaʁ, pungere, jugula:re, zygye, nabegar, navigare, nābaga, naviga, segurar, siguraʁ, fregar, frāga, iffrigar, tergere, ekstergere, enxugar, affugare, ēfugar, afuga, liga:re, legar, legare, zogaa, zuga, flugtwar, gela:re, glakia:re, glase, gjattfjare, glāsa, inglakia:re, augmenta:re, ogmāte, gōfle, gonfjare, flagra:re, flagʁe, flagrar, flagrare, flagrar, awgū, atgū, algu, gʁā, grande, grande, grēdʒi, grēdi, longus, lungo, lōgu, largo, laʁgu, largu, gʁa, graso, grasso, grafu, gras, gras, gordo, gʁo, grosu, grōs, grawis, gʁijef, grabe, grēve, gravi, gravi, grew, angustus, angosto, angusto, dewgadū, fri:gidum, segu, lōngum, gof, galbinus, galben, negru
2	o:	ego:, no:s, noi:, no:, wo:s, voi:, vo:, lo:ro, homo:, spo:s, o:b, flo:rem, fjo:re, flo:r, fjo:ʁ, o:wum, o:rikla, so:lem, so:vjō, no:men, no:me, no:minem, wo:mo, vo:mi, kogno:skere, ko:gita:re, odo:ra:re, ko:nsuere, ekspo:nere, ko:la:re, to:tus, po:k, majjo:rem, mo:, mo:si, go:f, duo:s, kʷando:, kʷo:modo, no:n
3	z	zā, zā, zāb, zānu, zueʁu, pluza, kalizēj, kelizēj, neʒ, zel, zeʁ, zuʁ, zorn, zāna, zuʁne, māʒe, mēʒaʁ, mēʒaʁ, mēʒa, kuʒitaʁ, kuʒitaʁ, pūʒiʁ, pūʒiʁ, zygye, naze, zeziv, zezek, zezek, zawrā, zivē, zivar, zira, aftrizir, aftrizir, aftrizir, zāte, zejtar, zve, zogaa, zuʒar, zuga, zuka, zāle, zilar, zāla, infindze, laʁz, du:ze:, suzu, lōʒi, lōʒi, kuʒ, zon
4	ə	zā, sā.si, sā.la, dāna, dāamna, amā, əspoza, marit, əspas, marā, parā, tatā, nāmaje, pasāre, pādukje, sərpen, abrā, sāmās, sāmēn, sāmīnfā, fūʁā, frunzā, ərel, rādāʒina, əskōrsā, skōartsā, erbā, jarbā, konnā, bāʁā, cōadā, plomā, pēʁā, panā, pər, fāvō, kəbēʁ, fāvē, testā, tēastā, ureʁā, bokā, bukā, golā, gurā, kamā, zānu, minā, alā, burtā, əpaʁʁā, inimā, fedʒā, lūnā, lūnā, əstēl, aʒyʁwā, apā, pluza, pēdrā, pʒatrā, ərenā, arinā, sorā, tērā, tsarā, newlā, negurā, tanebrās, fēafā, sendrā, fjenufā, biā, fāmē, kāmī, muntāʁā, diā, amā, bərbat, limbā, bēwʁā, mēʒa, musāga, musāgar, musāʒa, əskupī, rāspira, riwʁā, bēwʁā, sānti, sāʒe, kunefā, pānsa, pāsa, sānti, flāʒra, temā, biwʁā, nāga, mātā, batrā, kāsā, sāʒa, tāʁā, tāja, fēndrā, pārti, sāvē, sāpāra, rawrā, rāza, rāska, kāba, nāda, nābaga, fāmīne, kāmīna, vāniʁ, bāni, əstendrā, zawrā, zāʒā, əstā, lāve, lāba, əlsā, tārā, kawrā, kādā, tāniʁ, tāni, iʒpāmē, iʒpāmē, əspēmā, sārā, sārā, aftrizir, aftrizir, aftrizir, frāga, frāsa, əstāʒi, əfuga, trēwʁā, əmpēʁā, zāte, lānsa, kāntā, əskōrā, kōrā, zāle, zāla, glāsa, krefā, kramā, ənsendrā, əlgu, altrā, əmplā, əspēs, pāzā, pāzat, pāti, pātit, əstret, māny, mānut, mārunt, dālikat, rāw, rektā, əfilat, əpʁəp, destrā, əskērā, bərmeʁ, nēʒrā, dōwā, kwatrā, əʁā, ən, sā, kā, pāskā, pərke
5	j	jo, jerba, kabejo, kwejo, estreja, jubja, jelo, jaθer, jebar, amarijo, aja
6	o	jo, io, jo, nos, no, bos, vof, vos, eʁos, lo:ro, kwesto, kwello, vose, voste, moʁʁe, domina, doʁa, done, hominem, ombre, omēj, om, homo:, wōmo, nijo, nino, sponsa, esposa, ispoza, ispoze, moʁʁe, mariθo, marito, sponsus, esposo, spōzo, ispozu, ifpozu, sokius, sōʒo, sots, omaj, wazo, utfello, paxaro, passero, pjoxo, pidakkjo, pioʁu, poʁ, pedoli, arborem, arbol, albero, arbori, arbore, palo, fruto, frutto, grano, grano, folia, oxa, foʁe, frondea, frondza, kortikem, kortife, kortikea, kortetθa, kortetfja, kōʒfise, skortea, ekōʁs, flor, floʁ, kōʁd, korda, kōʁde, kōʁde, kotenna, kōʒiv, kodiv, konnā, po, os, os, weso, əsso, osu, grasso, goʁdure, webo, wōvo, ovu, ow, kornu:, kōʁn, kwerno, kōrno, korn, kola, koda, plomā, pelo, kabejo, kapello, ovej, orexa, orekja, oreʁe, oreʁe, okulus, oxo, əkkjo, oʁu, voli, okʁ, neso, na:so, boka, bokka, bokē, bokē, gola, golā, pitʁor, pitʁor, rodiʁa, dʒinok:jo, dʒenoli, mano, ma:no, intesti:no, kollum, kwejo, kollo, dorsum, do, dōsso, dos, epol, seno, petʒo, petto, kor, kor, iyaθo, fegato, sol, sole, solikulus, soreli, o, pjođʒa, ploje, rio, lago, lago, sasso, sorā, polvere, polbo, pols, nublo, nuvola, nor, θjelo, fʒelo, bjento, vento, jelo, dʒelo, umo, fumo, fokum, fwego, fwōko, fogu, foyu, fok, kamino, kammino, montem, monte, monta:nea, montana, montanna, noctem, noʒe, djurno, dʒorno, zorn, xornada, dʒornata, dʒornade, apo, anno, nomi, nomi, nombre, ombre, wo:mo, omēj, komedere, komer, kome, morde:re, moʁdē, moʁder, moʁder, morsika:re, moskar, morsikare, konspuere, womere, vomiv, bomitar, vomitare, gomita:, avomita, soplar, soffjare, sopraʁ, 'vjodi, oir, ovir, kogno:skere, konoθer, konoffere, kopeseʁ, koposi, kođitare, ole:re, oler, olire, odo:ra:re, odorare, dormi:re, dormir, dokmiv, dormi, morir, morire, moʁek, okki:dere, kortar, kōʒtaʁ, skortare, kosaʁ, fodere, nwotare, wola:re, vole, bolar, volare, voʁ, zvolare, zvolar, ose, torna:re, tornar, tornare, toʁnaʁ, torna:, torkʷe:re, torθer, donare, donar, doa, appektora:re, fʁote, frotar, arronʒare, koser, komputa:re, kontar, kontare, kontar, sporre, jōka:re, dʒokare, zogaa, kolar, kolare, koʁ, skorrere, iʒkōʁek, əskōrā, skori:, korer, korrere, kōʁek, kōrā, kori, ogmāte, konflare, gonfjare, zgloʒfa:, ustolare, omne:s, opni, todo, tutto, todū, tot, muʒo, molto, mol, molc, tanto, okōē, alguno, alkuno, poko, pōko, powku, otʁ, otro, altro, owtru, mapo, mapno, longus, longo, lungo, loʁ, laryo, largo, lato, anʒo, ampjo, graso, grasso, espeso, spesso, gordo, grossus, gʁo, grōsso, grosu, grosu, gros, lerdo, lordo, pesaθo, pekepo, pittfino, pikkolo, korto, korto, angosto, angusto, estreʒo, stretto, menudo, minuto, delyaθo, delikato, sottile, fo, kaliθo, kaldo, frio, fredō, leno, pje:no, nowum, nuvo, nweʒo, nwō:vo, novu, now, bjexo, vek:jo, bonum, bwenō, bwō:no, move, malo, katti:vo, pođriθo, marʒo, podri, sordidus, suθjo, spōrko, rektō, dritō, rotundum, reθondo, ton.do, ruθo, rotund, ayuθo, affila:to, sinfilo, zmusā:to, liso, liffo, moxaθo, bāʒna:to, seko, sekko, korre:ktum, korretto, propinʒʷum, viʒi:no, lōngum, lexos, lonta:to, lon'taʁ, djestro, destro, dereʒo, gof, sinistro, roxo, rosso, ʁoʒu, ʁoʒu, ros, roʒu, bermexo, vermiʁʁo, rubjo, rōbbjo, rubeo, zon, amarijo, krokeus, krotʒeo, albo, nēʒro, negro, pʒeto, uno, dos, dōwā, kʷattwor, kwatʁo, kwattro, θinko, ove, juo, onde, on, donde, kwando, kʷo:modo, komo, kome, komu, no, non, kon, abhoc, kʷod, prokʷid, porke

### Appendix 3 - Segments used in the word list

7	i	io, noi; voi; elis, hik, s̥a.s̥i, isu, iftu, ille, akilu, ekilu, is, lu:ī, eli, f̥emina, femmina, f̥emine, mulierem, domina, hominem, infantem, infante, ifēŋfi, nijo, nino, ispoza, mulier, maxi, mariðo, marito, maridu, meriðu, marit, m̥arit, ispozu, sokius, mari, pari, animalia, alimaņa, be:stia, biŋŋa, biŋe, bis, piskem, peŋfi, avi, awikellum, pidakkjo, piołu, pedoli, seŋpēŋfi, sarpint, veŋmi, aŋvori, silwa, f̥uqi, sementis, simjente, semēŋfi, simēs, grin, folia, raiθ, ƿais, ƿeif, ƿadi, ƿasin, rēdāŋina, kortikem, kortiŋe, kōŋŋisi, kōrtisi, kortikea, kōŋŋise, kurtise, fu:nis, kodŋe, kodie, peli, kaŋni, sangʷinem, sēgi, f̋ifri, f̋ifri, pilus, kapillus, ŋivja, kapitia, o:rikla, voli, nariθ, nariŋe, naris, neris, dēŋfi, 'dint, dinte, ungʷis, piŋʷor, piŋʷor, roðiła, đzinok:jo, đe'noli, bariya, vētri, wiskus, tripas, intesti:no, ispadwe, sinus, si, pi, pit, anima, anime, inimā, iyaðo, figedu, fiyeðu, f̋ija:t, f̋ikat, solikulus, soreli, istrelē, pluwia, pl̋qi, flumi, rio, ƿiw, ƿiu, riw, ri:pa:ria, ƿivjex, rivi:ri, lapidem, lapide, arina, nu:bilus, kaliginem, kalina, kalidŋine, kalizēŋ, kelizēŋ, tinjebłas, kajkia, 'vint, niwem, nē.vi, kinerem, θeniθa, ŋfinize, wia, bia, via, viē, biā, istrade, iftrade, kamino, kammino, kemiju, kēmi, mōŋfi, nqi, nit, die:s, dia, di, diē, diā, zi, diurnum, diurna:ta, nomi, no:minem, lingʷa, lingwa, limbā, bibere, bevi, mwardi, morsika:re, morsikare, kuspix, kuspir, eskupir, askupi, vomix, bomitar, vomitare, vumitaŋ, vumitar, bumita, vo:mi, gomita:, avomita, ƿespiŋe, respirar, respirare, ƿespirar, ƿispirar, raspira, ƿespiŋe, respira:, arespira, ƿix, reir, ƿir, riwrā, 'ridi, wide:re, 'vjodi, oir, o(w)viŋ, ovir, s̋anti, sin'ti, awzi, ŋti, kinoh, koposi, ko:gita:re, k̋ide, kwidar, kodŋitare, kuzitaŋ, kuzitar, s̋atix, sentir, sentire, sēŋŋix, sētir, s̋anti, sēti, sinti:, simŋsi, olire, time:re, temi, trima:, dōŋmiŋ, dormir, dormire, dōŋmiŋ, durmir, durmi, dwaŋmi, dormi, vivŋ, bibir, vivere, viveŋ, viver, biwrā, vivi, via, muŋix, morir, morire, muri, mōri, muri, tu:ta:ri, oksix, utŋidere, uksi, uŋide, batir, bati, kaptia:re, ta:lia:re, di:widere, dibidir, dividere, đzividŋix, diviðir, dibidi, dividi, divide, skindere, findere, findere, paŋtiŋ, partir, partire, paŋŋix, p̋ertir, p̋erti, p̋o:rti, p̋uzix, p̋uzir, pupi, fwix, iŋkevaŋ, iŋkevar, naviga:re, navigare, naviga:, naviga, f̋emine, kaminar, kamminare, kemijaŋ, kemijar, kēmina, ŋimine, camina:, ambita:re, vānix, benir, venire, viŋ, vir, bāni, vini, v̋ini:, veni, istēðer, iftēðer, ekstinde, zezix, jesi, alti:re, zixē, xirar, đzirare, zirar, zira, đjira: viŋe, birar, virare, virar, bira, keir, dine, tōnix, tōni, tini, tinji, tsine, eksprimere, ekspremir, ispr̋ameŋ, ispr̋amer, esprimi, stringere, estreŋir, strindŋere, aŋtrizir, aŋtrizir, stringe, frika:re, frika:re, frisar, estarsir, aŋst̋arzi, esqije, limpida:re, limpjar, tira:re, tiŋe, tirar, tirare, ŋjira, tira, tire, tira:, impingere, impindŋere, impindŋe, xita, ligare, lie, liya, kuŋŋe, kuzi, kuzi, diŋ, deθir, dire, dizer, di, zifē, ludir, fluitare, fluitare, fluir, fluire, flwix, flwir, flui, eskurir, iŋkōkex, iŋkurer, kuŋix, kori, glakia:re, inglakia:re, infla:re, inŋŋar, enfiare, imfla, intume:skere, inkendere, inŋŋendjare, inŋŋindŋe, oŋpi, altri, alius, grēđŋi, spissus, ispesu, grawis, g̋rijef, gravi, grevi, pittitus, p̋ati, p̋atit, piti, 'pittinus, pitŋino, putsin, pitulus, pikkolo, piŋful, brewis, brevi, striktus, istrejtū, minu:tus, minuto, miudu, miuðu, minu, minut, de:lika:tus, delikato, d̋elikat, sutil, sottile, suŋfiw, suptil, su:ti, subsire, kalidum, kaliðo, fri:gidum, frio, friu, plin, 'vjeri, trist, putridum, puri, poðriðo, puðrit, pu:xi, sordidus, drit:o, direjtu, direktu, affila:to, efiadu, aŋilat, askutsit, sinfilo, lis, liso, liŋŋo, lizu, liis, slis, u:midum, umidu, umiðu, sikkus, propiŋkʷum, viŋi:no, lōŋi, direjte, direjte, iθkjerða, sinistro, vermikulus, vermiliło, wiridem, galbinus, amarijo, nigrum, neri, kwatri, θinko, ŋiŋkwe, siŋk, 'ŋiŋk, ŋiŋf, isi, aki, kwi, eki, illa:k, ibi:, vi, ai, ei, kʷis, ki, kwi, ŋfine, kʷid, ubi, ðđŋi, ni, in, deintus, dins, i, fi, si, ki, prokʷid
8	w	ew, jew, wo:s, kwesto, kwello, wōmo, pwasō, awem, aw, awikellum, wazo, wermem, silwa, sewwa, paw, fwee, skwas, skwartse, kwerða, kwan, sangwe, weso, 'vwes, o:wum, webō, wōvo, ōw, ow, kwerno, kwen, 'kwar, kawðe, kōw, pwal, p̋ew, wenter, wiskus, kwejo, kwel, ispadwe, kwore, awme, fwa, s̋ow, etwal, aywa, akkwa, agwe, ajyŋwā, e:w, pluwia, ri:wus, ƿiw, riw, riw, saw, pulwerem, pulwus, nēvwē, newlā, sēw, wentum, niwem, new, fwego, fwōko, wia, vwa, wo:mo, lengwa, lingwa, ligwe, bwax, bewrā, mwardi, wōmere, riwrā, wide:re, vwaŋ, awzi, savwaŋ, kwidar, dwaŋmi, wi:were, biwrā, nwaje, tuwe, di:widere, p̋wēðŋ, rawrā, fwix, kaware, ekskaware, nwtore, wolare, vwar, wenire, zavrā, swax, fwaŋ, kawrā, lawa:re, suwe, trēwrā, zwe, đzuwe, flugtwar, flwix, flwir, k̋watŋ, awgū, powku, owtru, aw, grwes, grawis, grew, grew, brewis, brew, etŋwa, dewgadū, suŋfiw, f̋iwa, nowum, nweŋo, nwa:vo, nōw, now, wetum, bwenō, bwa:no, maw, r̋aw, d̋wa, sua:wē, lwē, d̋wat, laŋwum, wiridem, awvu, nwaŋ, dowā, t̋wa, kʷattwor, kwatro, kwattro, kwatru, kwatrā, kwat, kwatri, ŋiŋkwe, kwi, kwi, kwa, kwe:, kwando, kwēðu, kwan, kwand, kwant
9	o	zo, nojs, noŋ, vojs, vose, dōnna, dōnā, dōne, om, omēŋ, omā, om, wōmo, spōza, aŋpōzā, spōzo, aŋpōs, s̋oŋŋo, pidakkjo, f̋alła, f̋oj, kōŋŋisi, kōrtisi, skōrtsa, aŋkōrsā, f̋lo, osso, os, o'he:, wōwo, ow, kōrno, kōw, kōde, plōm, o:raj, oŋkjo, bōk, bōce, gōle, 'oŋgule, ŋjo, kōlu, kōł, dōsso, dō, kwore, kōŋ, kōr, s̋ow, s̋ol, s̋ol, s̋olē, savalon, polvar, pō, njoly, fwoko, f̋ok, mont, montane, notte, not, zōnna, nom, noŋ, omā, mōrdere, o'ji:, konetŋ, kinoh, dōŋmiŋ, mōri, oksix, vōle, tōðŋ, tōrfere, tōrsā, dōne, loji:, kōle, tō, pōko, pōk, grōsso, grōs, nōw, nō've, bōn, bōŋ, spōrko, spōrk, ta'rōnt, aŋrōp, 'dōŋŋe, rōs, rōbbjo, rōŋf, grōk, kōmā, kōm, kōmē
10	đ	đzi, kodŋe, sindŋe, đzib, đzinok:jo, đe'noli, đzenunkŋ, fedŋ, pjodđŋa, kalidŋine, đzelo, đzer, đzu:, đgorno, đzu:, đgornata, manđare, suđŋe, kodŋitare, kuđŋeta, đzividŋix, punđŋere, punđŋe, neđŋi:, merđŋere, merđŋe, đŋaŋe:re, đŋere, đzirare, đjira:, strindŋere, strindŋe, terđŋere, ŋterđŋe, trađŋe, impindŋere, impindŋe, đŋettare, đŋete, đŋokare, đzuwe, đzuja:, skurđŋe, kurđŋe, đzelare, đzale, isendŋiar, grēđŋi, ruđŋe, đŋen, ðđŋi
11	r	dzi, naris, isendŋiar

### Appendix 3 - Segments used in the word list

12	j	jo, jew, nɔjs, vɔjs, femjɐ, femeje, mujere, mujere, omaj, nɔmaje, uʃjel, ʃjɛ, pjoxo, pidɔkkjo, pju, pɔdukje, serpjente, sjɛɾpɛ, sjɛrpe, vjɛɾ, vjɛr, vjɛrme, frujt, simjente, fɔɛj, ʃɔj, ʃɔaje, ʃjo:re, jep, jarbe, jarbɔ, pjɛl, pja, pjɛl, pjele, vjɔd, pjuma, ʃvivja, orekkja, ɔɛj, ɔkkjo, u:j, gɔɔj, djente, unggja, ungje, pje, pjɛde, pjɛrna, ɟinok:jo, ɔtɔɔj, pjɛpt, fijat, jubja, pjoddɟa, ploje, plɔaje, fjume, ɔivjɛɾ, pjɛɾ, pjɛdra, pjɛ:tra, pjɛ:re, pjatrɔ, so:vjɔ, sabbja, tjera, tjere, njɔly, njebla, nebbja, tinjeblas, sjɛl, ʃjelo, bjento, njebe, djurno, skujpa, soffjare, vɛ'ji:, 'vjodi, ɔ'ji:, kujda, flɔjra, sje, taje, tɛji:, taja, tɔja, jugula:re, jugula:re, jake:re, jesi, ʃjade, tinji, esujje, suja, limpjar, jakta:re, lɔji:, joka:re, ɟuja:, gjatʃjare, gonfjare, fjammare, ɛsɔdje, inʃɛndjare, isɛdjar, majjo:rem, ampjo, gɔijɛf, pjɛ:no, vjɔ, bjexo, vek:jo, 'vjɛri, suʃjo, muje, mu'ji:, djestro, iʃkjerɔa, rubjo, rɔbbjo, prjeto, kjen, juo
13	n	no:s, nu, nos, no:i, nɔjs, nɔʃ, no, no:, noj, fe:mina, femmina, femine, domina, dɔnna, donɐ, dɔnɔ, dɔne, ɟɔamnɔ, hominem, infantem, infante, fante, nijo, nino, nenɛj, nen, sponsa, sponsus, animalia, nema:l, nɔmaje, kanem, kan, kane, can, kijne, serpentem, serpjente, serpente, sɔrpen, sarpint, serpens, se:men, sementis, simjente, semente, sɔmen, semenʃɛ, sɛminʃɔ, gra:num, gɔɛn, grano, grano, grin, gran, frondea, frondza, frunzɔ, ra:di:ki:na, ɔasin, rɛsɛn, rɔdɔʃinɔ, gra:men, gɔamɛn, fu:nis, kwan, kotenna, konnɔ, karnɛ, karne, karne, kɔɔni, karni, karn, sang'inem, sangwe, sindɟɛ, kornu:, kɔɔn, kverno, kɔrno, kwen, korn, penna, pɛn, pɛnɐ, pɛn, pɛne, panɔ, na:sus, ne, naso, na:so, nas, na:s, nariθ, nariʃɛ, naris, nerif, na:ris, dentɛ, djente, dente, 'dint, dinte, ungje, pjɛrna, pɛɔnɐ, pɛr.nɐ, genu:, ʒɔnu, ɟinok:jo, ɟɛ'noli, ɟɛnunkɟ, manum, mano, ma:no, minɔ, wenter, panʃa, pantse, intesti:no, sinus, seno, sen, san, anima, anime, inimɔ, lu:na, lyn, luna, ʃunɔ, lɔn, lune, lunɔ, flu:men, hare:nɔ, arena, ɔrenɔ, arinɔ, savaln, nu:be:s, ny, nube, nuvɛj, nuvɛj, nu:bilus, nublo, nuvola, nubladu, nuʃuʃ, nu:l, nor, ka:li:ginem, kalina, kalidɟine, nebula, njɔly, njebla, nebbja, nɛvwɐ, newlɔ, negurɔ, tene:braj, tɛ:nebre, tene:bra:s, tenebɔ, tinjeblas, tɛ:nebre, tɔnebrɔs, wentum, bjento, vento, ben, 'vint, vint, niwem, nɛʒ, njebe, neve, nɛ.vi, nevi, new, ni:vaj, nɛ:f, nɛa, kinerem, ʃɛnere, sendrɔ, ʃeniθa, ʃɛnize, ʃɛnuʃɔ, kammi:num, kamino, kammino, montem, monte, mun, mɔnt, munte, monta:nea, montajna, montajna, muntajna, mɔntajne, noctem, nɔi, nɔʃɛ, nɔtte, nojti, nit, nyt, nɔapte, diurnum, djurno, ɟorno, ʒorn, ʒɔɔna, diurna:ta, ʒuɔne, xornada, ɟornata, ɟornade, annum, anno, ɛnu, an, no:men, nɔ, no:me, nomi, nomɔ, nɔm, nɔ, nɔj, nume, no:minem, nombre, ling'wa, lingwa, 'lengɛ, manduka:re, mandukar, mandɟare, minka, konspuere, sin'ti, kogno:skere, kɔnetɔ, konoθɛr, konoffere, kunɛʃɔ, kinɔh, kunɔafte, pensa:re, pensar, pensare, pɔnsa, senti:re, sentir, sentire, sɔnti, sinti:, neka:re, nwaje, nɔga, neka, anegar, annegare, pugna:re, skindere, findere, findere, ender, fɛndere, fɛndrɔ, pungere, pundɟere, pundɟɛ, nata:re, nadar, nwotare, nadaɔ, nɛɔar, nɔda, nada:, naviga:re, naze, nabegar, navigare, naviyɔɔ, nɛviyɔr, nɔbɔga, nɛɟi:, naviga:, naviga, ʃɛmine, kaminar, kamminare, kɛmina, ʃimine, camina:, andar, andare, weni:re, vɔniɔ, benir, venire, bɔni, vini, veni, ekstendere, ekstender, ɛstendere, ɔstendrɔ, ekstinde, sedenta:re, sentar, senta:, torna:re, tuɔne, tornar, tornare, tɔɔnɔɔ, turnar, turna, tu:rne, torna:, turna, donare, dɔne, donar, duna, dine, tene:re, tɔniɔ, tener, tenere, tɔni, tini, tinji, tsine, stringere, strindɟere, stringe, strɛngi:, strindɟɛ, enxugar, impingere, impindɟere, impindɟɛ, lankea:re, lanθar, lanʃare, ʃɔnsa, lanci:, lanʃa:, ɛ:runka:re, arankar, arronʃare, ko:nsuere, kontar, kontare, kontar, ɛ:numera:re, enumɛɛe, enumerar, enumerare, enumera, numara, ekspɔ:nere, spune, kanta:re, kantar, kantare, kɔnta, canta:, kinta, inglakia:re, ingɛsa, aɟmenta:re, aɟmentar, aɟmentare, aɟmentar, aɟmenta, inʃla:re, inʃlar, enfiare, enʃla:, konʃla:re, gonfjare, intume:skere, entumeθɛr, inkendere, enθender, inʃɛndjare, isɛndɟar, ɔnsendrɔ, inʃindɟɛ, omne:s, tantus, tanto, tant, tanc, alguno, alkuno, magnus, grandem, grande, gran, grant, longus, longo, lungo, lunk, lung, anʃo, pe:sant, pesante, pezent, 'pittinus, pittino, pekenu, pikenu, putsin, angustus, angosto, angusto, minu:tus, mɔny, menudo, minuto, mɔnut, minu, minu:t, mɔrunt, ple:num, ʃeno, pjɛ:no, plin, nowum, nuvo, nweʃo, nwɔ:vo, novu, nɔw, nɔ've, now, bonum, bweno, bwɔ:no, bɔn, bun, rotundum, rɛɔondo, ton.do, ta'rɔnt, rotund, sinfilo, neted, viʃi:no, lonta:no, lon'tar, sinistro, galbinus, ʒon, ɟɛn, galben, nigrum, nwɔɔ, neyro, negro, negru, nɛyrɔ, nɔɔɔ, neri, u:num, uno, un, unu, k'wi:nk'e, ʃinko, ʃinʃ, kjen, ʃine, unde, onde, on, deunde, donde, k'wando:, kwando, kwan, kwand, kwant, kind, nɔ:n, nɔ, no, non, nɛw, nu, nek, ni, ne, nɛj, nɛj, nɛ, in, en, ɔn, in, deintus, dins, kon



### Appendix 3 - Segments used in the word list

14	s	no:s, nos, nɔjs, wo:s, bos, vɔjs, bus, vos, eɔs, elis, sɔ.si, este, kwesto, isu, sɔ.la, ese, usted, vose, vɔse, veste, is, sponsa, esposa, spɔza, ispoza, ɔspɔzə, mari:tus, sponsus, esposo, spɔzo, ispozu, ɔspɔs, spo:s, sokius, sɔfjo, sots, be:stia, bis, piskem, pɛs, pwasɔ, useɔ, passerem, passero, pasɛru, pasəre, peduklus, serpentem, sɛpɔ, serpjente, serpente, sɛpɛfji, sirpɛti, sɛrpen, sjɛpɛ, sarpint, serpens, sjerpe, sɛrpe, serp, silwa, selba, selva, sɛwva, sɛlvə, selve, pa:lus, fru:ktus, se:men, seme, sementis, sɛmɔs, simjente, semente, semɛfji, simɛti, sɛmen, simɛs, sementfɛ, sɛmintfɔ, frɔsɛ, ɛais, ɛasin, ɛesɛn, kɔfjisi, kɔrtisi, kɔfjisɛ, kurtisɛ, skortea, ekɔs, skɔrtsa, ɔskɔrsə, skwas, skwartse, skɔartsə, fu:nis, sangwɛnem, sɔ, sangre, sangwe, sɛgi, sɛgi, san, sɔ:g, sanj, sindɛ, os, os, weso, ɔsso, osu, ɔs, 'vwɛs, adeps, gɛs, grasa, grasso, pilus, kapillus, kavettsa, kabesɛ, kɛbesɛ, testa, testa, tɛstɛ, testə, fɛs, tɛste, tɛstə, okulus, na:sus, naso, na:so, nas, na:s, naris, na:rɪs, ɛngwɪs, kru:s, wiskus, tripas, intesti:no, ɛtrɛpɛs, dorsum, dɔsso, dos, spatula, espalda, spalla, ɔspaɔɔ, spal, spale, spate, sinus, sɛ, seno, seju, sɛju, si, sen, san, pektus, so:lem, sol, sole, sɔw, sɔl, sɔl, sɔɔ, sqare, solikulus, sɔlɛj, soreli, ste:lla, estreja, stella, istrelɛ, ɔstɛl, stɔ:l, stele, stɛa, ri:wus, sa:lem, sel, sal, sale, saw, se, sa:l, sare, saksum, sasso, sejjɔ, sejjɔ, sabulum, sabl, sajbru, sorə, so:vjo, savalon, sabula, sabbja, pulwus, pols, nu:be:s, nu:bilus, tene:bra:s, tinjebɔs, tɛnebrɔs, fumasɛ, sjɛl, sɛw, sel, si:ɛ, fu:mus, sɔdɛ, sɛndrə, sɛ:d, sizɛf, strata, estrada, strada, istradɛ, die:s, morsika:re, moskar, morsikare, musəga, musəgar, musəya, murseka, su:gere, syse, sugaɛ, sugar, sysi, suɟɛ, konspuere, kɔspyɛ, kuspɪɛ, eskupɪ, ɔskupi, skujpa, sputere, esputar, sputare, spudaɛ, sufle, soplar, soffjare, sopraɛ, suprar, spira:re, ɛspɪɛ, respirar, respirare, rɛspira, ɛspɪɛ, respira, arespira, sɛnti, sin'ti, ski:re, sapere, savwaɛ, saber, sabeɛ, seber, sɛpɛ, savɔ:re, save, kogno:skere, kopɛsɛr, kuɔniser, koposi, pe:nsa:re, pɔse, pensar, pensare, pɛsaɛ, pɛsar, pɛnsa, pɛse, peɔsa, senti:re, sɔtiɛ, sentɪr, sentire, sɛfjiɛ, sɛtir, sɛnti, sɛti, sinti, simfɛsi, ɔksiɛ, uksi, fase, kasɛ, kɛsar, kɛsa, fɛsi: pulsa:re, puse, pulsare, pulsaɛ, pulsa, seka:re, sje, segar, segare, segaɛ, siyar, sɔya, sear, ekskurta:re, skortare, skurtaɛ, skurta, skindere, sɛde, se:para:re, sɔvɛ, separar, separare, separaɛ, sipɛrar, sɔpɛra, separa:re, separa, rasar, rasare, rasaɛ, raskar, raska, kosaɔ, kusar, ekskawa:re, eskabar, skavare, ekstendere, ekstender, estɛndere, istɛdeɛ, ɔstɛndrə, ekstinde, jesi, sede:re, swaɛ, ser, sedere, seɛ, sedenta:re, sentar, sɛtar, sentaɛ, sta:re, estar, stare, ɔsta, ɛs, staɛ, sta, ose, aɔsa, aɔsar, ɔlsa, hɔ:si, turser, tɔrsə, segurar, siguraɛ, siyurar, eksprimere, ekspremir, spremerɛ, ɔspremɔ, esprimi, skreme, serrere, serar, seɛa, sɛrar, sɛra, serare, seɛe, serrare, siɛar, sere, stringere, estɛpɪr, strindɛre, ɔstreɔ, stringe, strɛngi: strindɛ, frisar, frasa, ekstergere, estarsir, ɔstɛrzi, eksu:ka:re, esujje, suwe, sujaɛ, uska, puse, pu:si, pulsa, lɔse, lɛsa, lɛsar, lɔnsa, ko:nsuere, koser, ɔqase, eksponere, sporre, spune, ekskurrere, eskurɪr, skorrere, ɔskorə, skori: skurdɛ, glase, glɛsa, intume:skere, itumeser, kre:ske:re, kreseɛ, kɪfser, ɛsɔdɛje, isɛndjar, isɛdjar, ɔnsɛndrə, ustula:re, ustolare, ustura, omne:s, to:tus, multus, tantus, paɔkus, alius, magnus, longus, largus, la:tus, amplus, krassus, graso, grasso, gras, gras, gras, spissus, espeso, spesso, espɛsu, ifpesu, ɔspɛs, spɛ, gurdus, grossus, grɔsso, grosu, grosu, grɔs, grwɛs, gros, grawis, lurdus, pe:sant, pesaɔo, pesante, pittitus, 'pittinus, pitulus, kurtus, brewis, angustus, angosto, angusto, ingust, striktus, estɛfjo, stretto, istɛrtu, ɔstret, stɔ:re, stret, strimt, minu:tus, de:lika:tus, subti:lem, sutil, sottile, sutfiw, suptil, su:ti, suti:l, subtsire, trist, sordidus, sal, suθjo, spɔrko, suzu, mo:si, spɔrk, askutsit, hebes, emuse, sinfilo, zmussa:to, segu, seyu, sua:wɛ, lis, liso, ɔis, slis, sikk us, sek, seko, sekko, seku, sek, sɛf, sek, lexos, dekstrum, djestro, dɛstro, dɛstru, destrə, di:re:ktus, destra, sinistro, ɔskerə, sting, russus, rosso, ros, rɔs, vermikul, rubeus, galbinus, amarellus, krokeus, albus, duo:s, dos, dojs, duas, duɛs, tre:s, tres, trɛs, sɛk, siku, sinj, isi, kwɪs, deintus, dins, si:k, si:, si, se, si, sɔ, paɔska
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### Appendix 3 - Segments used in the word list

15	u	nu, vu, bus, isu, iftu, akilu, ekilu, tu, usted, mulierem, muxer, мулех, мулер, муле, mui:r, mujere, epuz, mulier, muxer, мулех, мулер, муле, mui:r, mujere, mari:tus, maridu, meridu, sponsus, epu, ispozu, ifpozu, sokius, awikellum, uttfello, useλ, ufjel, paseru, peduklus, pu, pioλu, pju, pædukje, arvuri, arbul, pa:lus, fru:ktus, fruto, frutto, frutø, frujt, frut, frukt, gra:num, fuλa, frunzə, kurtise, osu, goxdure, gurðure, o:wum, ovu, kua, pluma, pjuma, plume, pilus, pelu, pilu, kapillus, kabelu, kəβelu, ureλə, ureke, okulus, oλu, na:sus, bukka, buf, bukə, gula, gurə, uŋg <sup>w</sup> is, uŋa, uŋgja, uŋə, 'əŋgule, ungje, zənu, zueλu, dʒenunkç, manum, burtə, wiskus, kollum, ku, kəlu, dorsum, spatula, sinus, seju, seju, pektus, pejtu, pejtu, fi:ka:tum, figədu, fiyədu, solikulus, luna, luə, λunə, lune, lunə, pluwia, jubja, fuve, pluza, fjume, flumi, flumi, flum, ri:wus, xiu, lakum, lagu, laɣu, saksum, seifu, seifu, laude, sabulum, sajbru, sabula, pulwerem, pudə, pulbere, pulwus, nube, nuvėj, nuvėj, nu:bilus, nublo, nuvola, nubladu, nuβuλ, nebula, negurə, fumata, fuma:ta, fumase, fumate, kajlum, wentum, vētu, fu:mus, umo, fumo, fumu, fum, fokum, fogu, foyu, fʃenufə, kammi:num, kamiju, kemiju, mun, munte, muntanə, diurnum, zuκ, djuerno, diurna:ta, zuκne, annum, enu, nume, kumer, manduka:re, mandukar, murðer, musəga, musəgar, musəya, murseka, sugaκ, sugar, cuca:, suɖe, konspuere, kuspik, kufpir, eskupir, əskupi, skuɣpa, sputere, esputar, sputare, spuda:, vumitaκ, vumitar, bumita, sufle, suprar, udi:re, kupiser, kuneɖə, kuŋqafte, kuɣitaκ, kuɣitar, kujda, kuɖeta, ulura, durmir, durmi, durmi:, mukik, muker, muri, muri:, muri, tuwe, uttfidere, uksi, ufide, pugna:re, puɣar, puɣnare, puɣa, battuere, pulsa:re, puse, puxar, pulsare, puɣaκ, puɣar, pulsa:, pulsa, kurta:re, kurtar, ekskurta:re, ekuɤte, skurta:, skurta, pungere, punɖere, puɣi, punɖe, jugula:re, jugula:re, kusar, bula, zburə, lua, tuκne, turnar, turna, turna, turser, tumbar, tumba, tume, duar, duna, segurar, siguraκ, siyurar, enxugar, əffugare, ɛfugar, ɛfuyar, əfuga, suwe, suja:, uska, puse, pulsa:, e:runka:re, aruŋka, ko:nsuere, kudə, kuɖire, kuzer, kuzi, kuzi, komputa:re, kumta, e:numera:re, enumeɤe, enumerar, enumerare, enumera, numara, spune, ludir, xugar, zuɣar, zuga, dʒuwe, dʒuja:, zuka, flu:ktua:re, flugtwar, fluttuare, flutuak, flutuar, fluktua, fluctua, fluita:re, fluitare, fluere, fluir, fluire, flui, kule, kuar, kuλa, ekskurrere, eskurir, ifkurer, skurɖe, kurrere, kuκik, kuκer, kuɖe, augmenta, umfla, intume:skere, entumeθer, itumeser, bruɤfare, bruza:, ustula:re, ustolare, ustura, to:tus, tu, tutto, todə, todu, dut, multus, mu, muɤo, muijtu, mult, tantus, tətə, tətə, alguno, alkuno, əlgu, paɣkus, powku, owtru, alius, magnus, longus, lungu, ləgu, lunk, lung, largus, laɣu, largu, la:tus, latu, amplus, ɛfu, krassus, grafu, spissus, espesu, ifpesu, gurdus, grossus, grosu, grosu, lurdus, luκ, pezaɖu, pizaɖu, pittitus, 'pittinus, pekenu, pikenu, putsin, pitulus, piɤful, kurtus, kuκ, kuɤtu, kurtu, kurt, kurt, angustus, angusto, ingust, striktus, istrejtu, iftrejtu, minu:tus, menudo, minuto, miudu, miuɖu, mənut, minu, mərunt, de:lika:tus, dewgadu, deɤyaɖu, subti:lem, sutil, suɤiw, suptil, suti:l, subtsire, kalidum, fri:gidum, friu, ple:num, ɤeju, nowum, nuvo, novu, wetum, veλu, bonum, bun, maλum, putridum, puri, puɖrit, putred, sordidus, suθjo, suzu, brut, murdar, re:ktum, direjtu, direktu, rotundum, xidədu, ruɖo, rotund, aku:tum, ayuɖo, ɛfiadu, u'fa:t, askutsit, emuse, zmusə:to, segu, seɣu, sua:wə, lizu, u:midum, muje, umidu, umiɖu, muλat, mu'ji:, ud, sikkus, seku, korre:ktum, propiŋk <sup>w</sup> um, peɤtu, pertu, ləŋgum, λuɣ, dekstrum, destrə, deɤtru, di:re:ktus, laɣwum, russus, xə, xəfu, rofu, vermikulus, vəkmeλu, viɤmɛjλu, rubeus, kuɣ, rubjo, rubeo, ruɖe, galbinus, amarellus, ɛmarelu, ɛmɛrelu, krokeus, albus, awvu, alvu, nigrum, negru, pretu, u:num, uno, un, uŋ, unu, duo:s, duaj, due, duas, duəs, duɛɤ, kwatru, patru, siku, ekkumhi:k, ubi, u, juo, unde, deunde, kwədu, komu, kum, nu, deintus, kum, ku, avu, purke, purki
16	f	noɤ, vof, elif, iftu, ifpoze, ifpozu, biɤa, biɤə, peɤfe, peɤji, peɤji, peɤ, peɤte, ɤjɛ, ɤarpe, ɤarpe, xəiɤ, ɤifri, ɤifri, ɤəvə, ɤəve, teɤte, nɛriɤ, buɤ, ɛtreɤeɤ, ifpadwe, iftrele, fuve, seifu, seifu, treveɤ, sizeɤ, ɤenufə, iftraɖe, ɤəme, kuɤpir, xəɤpirar, xəiɤpirar, ɤti, konoffere, kuneɖə, kuŋqafte, ɤejraκ, ɤejrar, fase, puɤaκ, puɤar, ɤindere, xəɤkaκ, xəɤkar, ifkəvaκ, ifkəvar, ɤəmine, maɤɤe, iftəder, ɤeɖə, iftar, altɤa:, ɤwaκ, ifprəmeκ, ifprəmer, əɤtriɣir, əɤtriɣir, iffrigar, iffriɣar, ɤterɖe, əffugare, ɛfugar, ɛfuyar, əfuga, ɤəte, ifkoɤeκ, ifkurer, ifar, kreɤɤere, kriɤser, kreɤə, kreɤte, ɛfu, grafu, ifpesu, iftrejtu, ɤo, ɤeju, təkɤā, liɤɤo, deɤtru, goɤ, ifkerɖe, go:ɤ, xəoɤ, xəfu, rofu, doɤɤ, duɤɤ, tref, ɤi
17	oj	noj, voj, nojti, froj, rojɤ, dojs, dojɤ, doj
18	v	vu, vo:i, vɔjs, vof, vos, vo:, voj, vose, vɔse, voste, avi, avi, vək, verme, vəkmi, vermi, vɛrm, vjer, vjer, vjerme, əkvori, arvuri, selva, səwva, səlvə, səlvə, əkvə, ɛrvə, vjəd, 'vwes, wɔvo, ovu, ɤəvə, ɤivja, cavej, ɤəve, kavetssa, voli, vətə, vētri, vētri, vē:t, fuve, ɤivjəκ, rivi:κ, so:vjə, savalɔn, polvere, pɔlvar, nuvėj, nuvėj, nuvola, nəvwə, treveɤ, vā, vento, vētu, vē, 'vint, vint, neve, nəvi, nəvi, ni:vaj, vwa, via, viə, bevi, vomik, vomitare, vumitaκ, vumitar, vo:'mi, avomita, vwaκ, 'vede:re, vək, ver, vɛ'ji:, 'vjodi, əvedə, o(w)vik, ovir, savwaκ, savə:κ, save:, vivə, vivere, viveκ, viver, vivi, via, dividere, dʒividɤik, dividi, dividi, divide, səvə, kavare, kəvaκ, kəvar, ɤə:vle, java:, skavare, ifkəvaκ, ifkəvar, ɤjava:, naviga:re, navigare, naviyəκ, nəviɣar, naviga:, naviga, vole, volare, voaκ, vwar, vɔle, zvolare, zvola:, vənik, venire, viə, vir, vini, viji:, veni, leva:re, ləve, levare, levaκ, livar, leva:, viə, virare, virar, lave, lavare, levar, lava:, grəve, gravi, gravi, grav, grəvi, brəve, brəvi, brəvi, nuvo, nwɔ:vo, novu, nə've, vjə, vek:jo, veλu, vi:, 'vjeri, vekç, move, katti:vo, viɤi:no, vermikulus, vəkmej, vermiləlo, vəkmeλu, viɤmɛjλu, vək, verde, verdi, vɛrt, vək, vɛrt, verde, awvu, alvu, vi, ove, əvek, avu

### Appendix 3 - Segments used in the word list

19	b	bos, bus, embra, fembra, ombre, be:stia, biffa, bife, bis, abe, berme, arborem, aʁbʁ, albero, abrə, o:b, arbul, arbore, selba, herba, ɛʁb, jerba, ɛrba, erbə, jarbe, jarbə, webo, baɲə, kabejo, kabelu, kəbeʎ, kabesə, bukka, buf, boka, bokka, bokə, bokə, bok, bɔcə, bukə, ʒɔb, gamba, ɖʒɔb, 'ʃaŋ'be, bariya, burtə, jubja, sabulum, sabl, sabula, sabbja, pulbere, polbo, nu:be:s, nube, nu:bilus, nublo, nubladu, nebula, njebla, nebbja, tene:braj, tɛ:nebre, tene:bra:s, tenebʁ, tinjeblas, tɛ:nebre, tənebrəs, bjento, ben, njebe, bia, biə, nombre, ombre, bərbat, limbə, bibere, bwəʁ, beber, bere, bebeʁ, biʃer, bəwɾə, bəʁ, bevi, bɛa, bomitar, bumita, ber, bəwɾə, saber, sabəʁ, səber, bibir, biwɾə, battuere, batʁ, batir, battere, bateʁ, bəter, batrə, bate, bati, dibidir, dibidi, kabar, kəba, eskabar, nabegar, nəbəga, bolar, bula, zbura, ambita:re, benir, bəni, jebat, ʎəba, birar, bira, tōbe, tumbat, tōbʁ, tumba, bʁyle, brutfare, bʁu:le, bruza: flābe, grabe, brewis, bʁɛf, brebe, brève, brɛvi, brɛvi, brew, bʁɛf, subti:lem, subtsire, bjexo, bɛʎ, bonum, bō, bweno, bwɔ:no, bɔn, bɔŋ, bun, brut, hebes, baɲpa:to, ba'pa:t, bermexo, bərmɛʎ, rubeus, rubjo, rɔbbjo, rubeo, rojb, berde, galbinus, galben, albus, albo, alb, ibi:, ubi, abhoc
20	i:	ei:, mui:r, mui:r, maritus, marit, ra:di:kem, ra:di:ke, radi:ʃe, ra:di:kina, pi:, pi:t, intesti:no, fi:ka:tum, ri:wus, ri:pa:ria, rivi:ʁ, pi:ʁ, kali:ginem, si:ʁ, ʃi:l, ni:vaj, kammi:num, maɲi:, sysi:, spi:ra:re, ri:de:re, ri:dere, xi:ʁ, vɛ'ji:, aʊdi:re, udi:re, ɔ'ji:, ski:re, senti:re, sinti:, dormi:re, durmi:, wi:were, muri:, okki:dere, ʃɛsi:, teji:, di:widere, parti:re, parti:, nɛɖʒi:, ma:ɾʃi:, weni:re, vɪni:, ho:si:, strengi:, pu:si:, lanci:, lɔji:, di:kere, di:ʁ, di:, skori:, subti:lem, sutil, fri:gidum, vi:, katti:vo, mo:si:, mu'ji:, viʃi:no, di:re:ktus, k'wi:nk'e, ekkumhi:k, ibi:, ki:, si:k, si:, ki:
21	ʎ	eʎos, moʎʎe, muʎeʁ, muʎer, muʎe, moʎʎe, muʎeʁ, muʎe, useʎ, pioʎu, poʎ, foʎʎa, foʎe, fuʎə, peʎ, kəbeʎ, oreʎe, oreʎə, ureʎə, oʎu, rodiʎa, zueʎu, kəʎ, əspaʎʎə, ʎunə, ʎak, taʎʎa:re, taʎʁ, tɛʎar, təʎa, ʎəba, ʎənsa, ʎiʎa, ʎoŋ, ʎark, ʎeno, veʎu, beʎ, ʎis, muʎat, ʎuɲ, vermiʎʎo, vɛɹmeʎu, vɛɹmeʎu, bərmɛʎ, əʎa
22	l	lo:ro, elis, elif, ille, səʎa, kwello, akilu, ɛkilu, el, lu:i, eli, eli, mulierem, mulier, animalia, alimaɲa, nema:l, awikellum, utʃfello, utʃjel, peduklus, pedoli, arʃol, albero, arbul, silwa, selba, selva, selve, pa:lus, pal, palo, pa:l, folia, ɔrel, flo:rem, floʁ, flor, floʁ, flə, fləʁ, flo:ʁ, floare, pellem, pjel, pelle, peli, peli, pjel, pjele, kola, plu:ma, plym, pluma, plomə, plɔm, plumə, pilus, pwal, pelo, pelu, pilu, pel, pe:l, kapillus, kapello, kabelu, keʃelu, o:rikla, orele, okulus, voli, gula, goel, gola, golə, gɔle, ɔgl, 'ɔŋgule, ɖʒe'noli, a:ʎa, el, ala, alə, ale, kolum, kollo, kɔlu, kwel, spatula, epol, espalda, spalla, spal, spale, alma, almə, so:lem, sol, sole, sɔl, sɔʎ, solikulus, sɔʎej, soreli, lu:na, lyn, luna, luə, lɔn, lune, lunə, ste:lla, etwal, stella, istreʎe, iftreʎe, əstɛl, stɔ:l, stele, pluwia, plɔi, pluʒə, plu:ʁ, ploje, plɔaje, flu:men, flumi, flumi, flum, lakum, lak, lago, lago, lagu, layu, la:t, sa:lem, sel, sal, sale, sa:l, lapidem, laude, lapide, sabulum, sabl, savalɔn, sabula, pulwerem, polvere, polvar, pulbere, pulwus, polbo, pols, nu:bilus, nublo, nuvola, nubladu, nu:l, kali:ginem, kalina, kalidʒine, kalizɛj, kelizɛj, nebula, nɔjɔ, njebla, newlə, tinjeblas, kajlum, sjel, ʃjelo, ʃel, ʃi:l, gelu:, zel, jelo, ɖʒelo, ling'wa, lɔg, lengwa, lingwa, ligwe, lɛu, 'lengɛ, limbə, sufle, soplar, ole:re, oler, olire, ulura, fleʁe, fləʒra, pulsa:re, pulsare, pulsa:, pulsa, ta:lia:re, jugula:re, zygye, jugula:re, ɕəvle, wolare, vole, bolar, volare, bula, vɔle, zvolare, zvolar, leva:re, ləve, levare, levəʁ, livar, leva:, lua, altia:re, alθar, altsare, əlsa, altʃa:, lawa:re, lave, laʃar, lavare, levar, lava:, la, limpida:re, limpjar, lipar, pulsa:, lankea:re, lɔise, lanθar, lanʃare, lɛsa, lɛsar, lancir, lanʃa:, liga:re, lie, legar, legare, lɔji:, lea:, lega, lu:dere, ludir, flu:ktua:re, flyktɔe, flugtwar, fluttuare, flutuəʁ, flutuar, fluktua, fluctua, fluita:re, fluitare, fluere, flye, fluir, fluire, flwɪʁ, flwir, flui, ko:la:re, kule, kolar, kolare, kɔle, gela:re, zɔle, elar, ɖʒelare, zilar, zəʎa, ɖʒale, glakia:re, glase, gləsa, glatʃa:, inglakia:re, infla:re, ɔfle, imfla, ɛfle, enfla:, umfla, konfla:re, gɔfle, zgloŋfa:, bʁyle, bʁu:le, flamma:re, flɔbe, flamear, flagra:re, flagʁe, flagrar, flagrare, flagʁəʁ, flagrar, ustula:re, ustolare, multus, molto, mol, molc, mult, alguno, alkuno, əlgu, alter, altro, altrə, altri, alt, alius, longus, lɔ, longo, lungo, lɔgu, lɔ, lunk, lung, largus, ləʒ, larɔ, largo, ləʒu, largu, lark, larg, la:tus, le, lato, latu, lat, amplus, ɔpl, amplə, lurdus, luʁ, lerdo, lordo, pitulus, pikkolo, piʃul, de:lika:tus, deʎaɖo, delikato, dɔlikat, subti:lem, sutil, sottile, suptil, suti:l, kalidum, kaliɖo, kaldo, ple:num, plɛ, 'plɛŋ, plin, malo, sal, affila:to, əfilat, sinfilo, lis, liso, liffo, lizu, slis, lwɛ, lexis, lonta:no, lɔzi, lɔzi, lɔ, lon'taŋ, vermikululus, galbinus, galben, amarellus, ɛmaɾɛlu, ɛmɛɾɛlu, albus, albo, alvu, alb, illa:k, la

### Appendix 3 - Segments used in the word list

23	r	lo:ro, mulierem, mui:r, mujere, mulier, mui:r, mujere, mari:tus, marito, mari:t, mærit, ma:trem, ma:dre, mari, patre, pa:dre, pæ:r, pari, passerem, passero, serpentem, serpente, sæpen, sarpint, serpens, sæpe, wermem, verme, vjer, vjerme, arborem, arbul, arbore, fruktus, frutto, frut, frukt, gra:num, grano, grin, gran, griw, frondea, frondza, ra:di:kem, raiθ, æræl, ra:di:ke, radi:ffe, ra:di:ki:na, ræðəfi:nə, kortikem, korti:ffe, kortikea, kortettja, skortea, skårtsa, æskørsə, skwartse, flo:rem, flo:r, herba, ɛrba, erbə, jarbe, gra:men, korda, karnē, karne, ca:r, grasso, kornu: kørno, 'kwa:r, o:rikla, orekkja, orele, ureke, nari:ffe, na:ris, pi:f'or, kru:s, roði:la, wenter, bari:ya, dorsum, kor, kwære, kør, ku:r, soreli, ri:wus, rio, riw, riw, ri:pa:ria, rivi:æ, mare, mar, ma:r, sare, petra, pje:tra, pje:re, hare:na, arinə, sorə, pulwerem, polvere, pølvar, pulbere, terra, tjera, terra, tərə, tjere, tsarə, nor, negurə, tene:braj, tæ:nebre, tene:bras, tæ:nebre, djer, kinerem, fjenere, sændrə, stra:ta, strada, diurnum, dʒorno, diurna:ta, dʒornata, dʒornade, bibere, komedere, manduka:re, morde:re, mǝrdere, mwardi, morsika:re, morsikare, musəgar, murseka, su:gere, konspuere, sputere, womere, fla:re, spi:ra:re, respirar, respirare, rəspara, respira: ri:de:re, reir, ri:dere, riwrə, 'ridi, wide:re, aʒdi:re, ski:re, sapere, kogno:skere, konoffjere, ko:gita:re, kodʒitare, pensa:re, sentire, sentire, ole:re, olire, odo:ra:re, odorare, fra:gra:re, fragrare, time:re, temere, tremere, tremare, trima:, dormi:re, dormire, durmi, durmi:, dormi, wi:were, vivere, morire, muri:, muri, neka:re, annegare, tu:ta:ri, makta:re, okki:dere, pugna:re, pu:pjare, battuere, battere, kaptia:re, katffare, pulsa:re, pulsare, seka:re, segare, kurta:re, ekskurta:re, skortare, skurta:, skurta, ta:lia:re, ta:lla:re, di:widere, dividere, skindere, findre, findere, fendere, parti:re, partire, pærti, parti:, se:para:re, separare, separa:, separa, pungere, pundgere, jugula:re, jugula:re, ra:dere, raer, radere, rawrə, rada:, rade, rasar, rasare, rəza, rasa:, raskar, rəska, fodere, kawa:re, kavare, ekskawa:re, skavare, nata:re, naviga:re, navigare, wola:re, mergere, mærdgere, merdʒe, ambita:re, andare, weni:re, ekstendere, estendere, jake:re, dʒere, sedere, sedere, sedenta:re, sta:re, stare, leva:re, levare, altia:re, altsare, torna:re, tornare, turna, tu:rne, torna:, turna, gyra:re, dʒirare, dʒira:, virare, tork'e:re, tǝrfjere, turser, tǝrsə, tǝartfe, kadere, kawrə, dare, dar, donare, tene:re, eksprimere, sprēmere, i:sprəmeæ, i:sprəmer, esprimi, skreme, serrere, serar, sərə, serare, ɔerar, serrare, appektora:re, stringere, strindgere, æstri:zir, æstri:zir, stringe, strængi:, strindʒe, frika:re, fregare, froj, frea, freka, frikta:re, frettare, frisar, lawa:re, lavare, tergere, tærdgere, ekstergere, æstərzi, fterdʒe, eksu:kare, affugare, limpida:re, tira:re, tirare, tire, tira:, trahere, trarre, traj, tradʒe, impingere, impindgere, jakta:re, dʒettare, lankea:re, lanffare, e:runka:re, arankar, arrontfjare, liga:re, legare, apta:re, ko:nsuere, ku:ffire, komputa:re, kontare, e:numera:re, enumerare, numara, di:kere, dire, ekspo:nere, sporre, kanta:re, kantare, lu:dere, joka:re, dʒokare, flu:ktua:re, fluttuare, fluita:re, fluitare, fluere, fluire, ko:la:re, kolare, ekskurrere, eskuri:, skorrere, æskorə, skori:, kurrere, korer, korrere, korə, kori, gela:re, dʒelare, glakia:re, gjatffjare, inglakia:re, augmenta:re, aʒmenta:re, infla:re, enfiare, konfla:re, gonffjare, intume:skere, kre:ske:re, kreffere, bru:ffare, bruza:, krema:re, kremare, krəma, flamma:re, fjammar, arde:re, ardere, flagra:re, flagrare, inkendere, inffendjare, ustula:re, ustolare, ustura, alter, altro, altri, grandem, grande, gran, grant, majjo:rem, largus, largo, lark, larg, krassus, grasso, gras, gras, gurdus, grossus, grōsso, grwəs, gros, grawis, greve, grav, grevi, lurdu:, lordo, kurtus, korto, kurt, brewis, breve, striktus, stretto, stræt, strimt, mærun: subtsire, fri:gidum, fred:o, 'fret:t, 'vjeri, trist, putridum, puri, martfo, 'frait, sordidus, spørko, spørk, re:ktum, rekto, drit:o, rektə, drø:, 'dræt, rotundum, reðondo, ruðo, rō, ta'rənt, k
24	i	orre:ktum, korretto, propi:nk'um, prɛ, dekstrum, dɛstro, di:re:ktus, dɛstra, direjtə, drø:t, sinistro, æskerə, russus, roxo, rosso, ros, rəs, vermikululus, vermi:λλo, bərmɛλ, rubeus, rubjo, rəbbjo, rubeo, ru:ʒe, rəf, rojb, wiridem, verde, vɛrt, amarellus, krokeus, kro:ffeo, nigrum, negro, neri, tre:s, tre, trəs, trø:, 'tre:, trej, k'attwor, kwattro, kwatri, patru, prok'id, perke, pərke, elif, eli, ifēti, i:ppoze, i:pozu, pejfi, avi, sirpēti, vermi, arvuri, simēti, səmintə, kǝrtisi, peli, karni, səgi, sindʒe, jifri, pilu, dēti, minə, vētri, i:ftrelə, flumi, riw, vint, nəvi, mōti, nojti, nomi, bi:fer, minka, ɤi:spira:, aride, ku:niser, timer, trimer, siyar, siperar, naviyəæ, nəviyar, i:ftar, livar, siguraæ, siyurar, siyar, ɛpi:tar, strindʒe, i:ffrigar, i:ffriyar, impindʒe, kinta, zilar, ingetsa, kri:fser, inffindʒe, grēdi, gravi, pizaðu, pikenu, brevi, ingust, i:ftrejtə, strimt, kēti, kēti, podri, ɤidōdu, lōzi, i:skerðə, sting, virmejlu, verdi, ki, ōdi, kind, in, si, ki, purki
25	h	hik, hominem, homo:, pehō, u:hæ:, herba, ɔ'hæ:, hare:na, kinoh, hɔ:si:, trahere, kya'hā, hebes, ekkumhi:k, abhoc

### Appendix 3 - Segments used in the word list

26	k	<p>hik, kwesto, kwello, akilu, ekilu, sokius, piskem, awikellum, kanem, kan, kane, kēwī, ka, kijne, peduklus, pidakkjo, pødukje, fruktus, frukt, ra:di:kem, ra:di:ke, ra:di:ki:na, kortikem, kortife, kəʃfisi, kortisi, kortikea, korteθa, kortettja, kəʃfise, kurtise, skortea, ekos, skōtsa, əskōrsə, skwas, skwartse, skqartsə, kōd, kwerða, korda, kōdē, korðe, kwan, kotenna, kođje, kodie, konnə, karnē, karne, karne, karni, karni, karn, sanjk, kornu:, kōrn, kwerno, kōrno, kwen, 'kwa:r, korn, kaɥda, kə, kola, koda, kawdē, kua, kōw, kōdē, kapillus, kabejo, kapello, kabelu, kəβelu, kəβeɹ, kapitia, kaβeθa, kavettsa, kabese, kəβese, kap, o:rikla, orekkja, ureke, okulus, əkkjo, bukka, boka, bokka, bōkə, bokə, bək, bukə, kru:s, kamə, dženunkç, wiskus, kollum, ku, kwejo, kollo, kōlu, kōɹ, kwel, pektus, kor, kœx, kwœre, kəx, kor, kər, ku:x, ku:r, fi:ka:tum, fikat, solikulus, akkwa, lakum, lak, ɹak, saksum, ka:li:ginem, kalina, kalidžine, kalizēj, kəlizēj, kajkia, kajlum, fokum, fwoko, fək, fu:k, fok, kinerem, kamm:inum, kamino, kammino, kamiju, kəmiju, kəmi, komedere, komer, kome, kumer, mandukare, mandukar, minka, morsika:re, moskar, morsikare, murseka, konspuere, kōspye, kuspiɹ, kufpir, eskupir, əskupi, skujpa, ski:re, kogno:skere, kōnɛtɹ, konoθer, konoffere, kōnesex, kupiser, kunɛfə, kinɔh, kōnosi, kunqaste, ko:gita:re, kupide, kwidar, kođitare, kuzitaɹ, kuzitar, kujda, kuđeta, kəēdɹ, neka:re, neka, makta:re, okki:dere, əksix, uksi, kaptia:re, kaθar, kattfare, kasax, kəsar, kəsa, seka:re, kurta:re, kortar, kōtɹ, kurtar, ekskurta:re, ekuxte, skortare, skurta:, skurta, skindere, raskar, ɹaxkax, ɹəfkar, rəska, kosaɹ, kusar, kawa:re, kabar, kavare, kəvax, kəvar, kəba, ekskawa:re, eskabar, skavare, iʃkəvax, iʃkəvar, kaminar, kamminare, kəmiɹax, kəmiɹar, kəmina, ekstendere, ekstender, ekstinde, jake:re, kadere, kaer, kadere, kəir, kawrə, kədɛa, eksprimere, ekspremir, skreme, appektora:re, frika:re, freka, frikta:re, ekstergere, eksu:ka:re, uska, jakta:re, lankea:re, e:runka:re, arankar, arunja, ko:nsuere, kudɹ, koser, kuʃire, kuzer, kuzi, kō:z, kuzi, komputa:re, kōte, kontar, kontare, kōtar, kumta, konta:, di:kere, eksponere, kanta:re, kantar, kantare, kētar, kənta, kinta, joka:re, dʒokare, zuka, flu:ktua:re, flyktɥe, fluktua, ko:la:re, kule, kolar, kolare, koax, kuar, kuɹa, kōle, ekskurrere, eskurir, skorrere, iʃkōvex, iʃkurɛr, əskorə, skori:, skurđe, kurrere, kuɹix, korer, korrere, kōvex, kuɹer, korə, kori, kurđe, glakia:re, inglakia:re, konfla:re, intume:skere, kre:ske:re, kəwatɹ, kreθer, kreffere, kresex, kriʃser, kreʃə, krefte, krema:re, kəame, kemar, kremare, kəjmare, kejməx, krəma, inkendere, okōē, alkuno, paɥkus, poko, pōko, powku, pək, po:k, lunk, ɹark, lark, krassus, pekeɹo, pekenu, pikenu, pikkolo, kurtus, kuɹ, korto, korto, kuɹtu, kurtu, kurt, ku:x, kurt, striktus, de:lika:tus, delikato, dəlikat, kalidum, kaliðo, kaldo, kēti, kēti, vekç, katti:vo, sporko, spork, re:ktum, rekto, direktu, rəktə, aku:tum, ku'a'hā, askutsit, sikkus, sek, seko, sekko, seku, sek, sek, korre:ktum, korretto, θerka, dekstrum, di:re:ktus, iθkjerða, iʃkerðe, əskerə, vermikululus, krokeus, krotʃeo, grək, katɹ, kwatro, kwattro, kwatru, kwatrə, kwat, kwatri, sək, θinko, ʃiŋkwe, siku, siŋk, 'ʃiŋk, ekkumhi:k, aki, kwi, eki, illa:k, ki, ki:, kwi, kjen, kēj, kēj, kwa, ke, ki, kē, kwe:, kā, kwando, kwēdu, kwan, kwand, kwant, kind, kōmā, komo, kome, komu, kōm, kōmē, kum, nek, kum, kon, kō, ku, avek, si:k, kə, ke, ki, ki, ki:, paɹskə, porke, perke, purke, purki, pərke</p>
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### Appendix 3 - Segments used in the word list

27 t este, kwesto, iftu, tu:, ty, tu, usted, voste, infantem, infante, infante, fante, ifēti, mari:tus, marito, marit, mari:t, mōrit, ma:trem, patre, tata, tata, be:stia, pefte, uttfello, serpentem, serpente, serpente, sirpēti, sarpint, fruk:tus, fruto, frutto, frute, frujt, frut, frukt, sementis, simjente, semente, simēti, kortikem, korti:fe, kōrtisi, kortikea, kortēθa, kortettfa, kurtise, skortea, kotenna, kapitia, kavettsa, testa, tet, testa, testē, tēftē, testē, tēstastē, dentē, djente, dente, dēti, 'dint, dinte, pit, wenter, vātē, vētri, vēt, burtē, ātkaj, tripas, intesti:mo, ētrejēs, ētrejēf, spatula, spate, pektus, petto, pejtu, pejtu, pit, , pēt, piept, fika:tum, fegato, fō:t, fijat, fikāt, ste:lla, etwal, estreja, stella, istrelē, iftrele, āstel, stō:l, stele, stēa, lat, petra, pje:tra, pjatrē, terra, tēk, tjera, terra, tēkē, tēkē, tērē, tēk, tjere, tene:braj, tēnebre, tene:bra:s, tenēbē, tinjebłas, tēnebre, trevef, tēnebrās, fu:ma:ta, fumata, fuma:ta, fumate, wentum, bjento, vento, vētu, 'vint, vint, stra:ta, estrada, strada, istrade, iftra:de, montem, monte, mōti, mōnt, munte, monta:nea, mōtaņ, montaja, montajņa, mōtēņe, mōtēņe, muntajņ, montajņe, noctem, nōtte, nojt, nit, nyt, nōt, nōapte, diurna:ta, dġornata, bōrbat, sputere, esputar, sputare, bomitar, vomitare, vumitaē, vumitar, bumita, gomita:, avomita, ātādē, sēņti, sin'ti, fti, kōnetē, kunqafte, kō:gita:re, kōdġitare, kuzitaē, kuzitar, kudġeta, senti:re, sātē, sentir, sentire, sētir, sānti, sēti, sinti, time:re, temer, temere, temē, timer, temē, temi, teme, tremere, tremēr, tremare, tremē, trimer, trima: tu:tari, tqe, tuwe, makta:re, mate, matar, mataē, mētar, mēta, uttfidere, battuere, batē, batir, battere, batē, bēter, batrē, bate, bati, kaptia:re, katfjare, kurtare, kortar, kōvtaē, kurtar, ekskurta:re, ekurte, skortare, skurtar, skurta, ta:lia:re, taje, taxar, ta:lla:re, ta:laē, tēlar, tēla, tejir, taja, tēja, fēt, parti:re, pāvtē, partir, partire, pētir, pēti, pō:kti, parti:, nata:re, nwotare, ambita:re, ekstendere, etādē, ekstender, estendere, istēdē, iftēder, āstendrē, ekstinde, sedenta:re, sentar, sētar, senta:, stare, etē, estar, stare, iftar, āsta, sta:, sta, altia:re, alfa:, torna:re, tūne, tornar, tornare, to:naē, turnar, turna, tu:rne, torna: tork'e:re, tōdē, tōrē, tōrē, tōrē, turser, tōrsē, tōarfe, tōbe, tūmar, tōbar, tōbar, tūma, tūme, tēne:re, tōnē, tener, tenere, tē, ter, tōni, tini, tinji, appektora:re, apretar, ēpirtar, stringere, etēdē, estrejir, strindġere, āstrizir, āstrizir, āstrejā, stringe, strengir, strindġe, frikta:re, fivote, frotar, frettare, tergere, tēdġere, ekstergere, estarsir, āstārġi, fterdġe, tira:re, tise, tirar, tirare, tira, tire, tira:, trahere, tēk, trarre, traze, trēzer, trēwrē, traj, traġe, jakta:re, zate, dġettare, ġejtar, xita, dġete, apta:re, atar, ētar, komputa:re, kōte, kontar, kontare, kōtar, kumta, konta:, kanta:re, jāte, kantar, kantare, kētar, kōnta, fāte, canta:, kinta, flu:ktua:re, flyktqē, flugtwar, fluttuare, flutuā, flutuar, fluktua, fluctua, fluita:re, fluitare, ġjattfjare, āugmenta:re, ogmāte, āumentar, āumentare, āugmentar, āugmenta, intume:skere, entume:θer, itumeser, kōwatē, krefte, ustula:re, ustolare, ustura, to:tus, tu, todo, tutto, todū, tot, t, dut, multus, molto, mūtu, mult, tantus, tanto, tētu, tētu, tant, tanc, alter, otē, otro, altro, owtru, altrē, ōt, altri, alt, grant, la:tus, lato, latu, lat, pēsant, pesante, pōzat, pezent, pētitus, pēti, pētit, piti, 'pittinus, pitfjino, pitulus, kurtus, korto, korto, ku:tu, kurtu, kurt, kurt, angustus, angosto, angusto, ingust, striktus, etōwa, estrefo, stretto, istrejtu, iftrejtu, āstret, stō:, stret, strimt, minu:tus, minuto, mēnut, minu:t, mērunť, de:lika:tus, delikato, dālikat, subti:lem, sutil, sottile, supil, su:ti, suti:l, kēti, kēti, fret, 'fre:t, wetum, katti:vo, trist, putridum, pu:rit, 'frajť, putred, brut, re:ktum, rekto, direjtu, direkto, rēktē, 'drēt, drept, rotundum, ton.do, ta'rōnt, rotund, aku:tum, tōāfā, affila:to, āfilat, u'fja:t, askutsit, zmussa:to, neted, baņņa:to, mu:la t, ba'ņat, korre:ktum, korretto, pētu, pertu, lonta:mo, lon'taņ, departe, dekstrum, djestro, dēstro, dēstru, dēstru, destrē, di:re:ktus, dēwat, destra, direjte, direjte, drēt, drōť, sinistro, sting, vert, vert, prjeto, pretu, tre:s, tōwa, tres, tre, tref, tēs, trō: 'tre, trej, k'attwor, katē, kwatro, kwattro, kwatru, kwatrē, kwat, kwatri, patru, kwant, flemut, deintus, et

### Appendix 3 - Segments used in the word list

28	a	<p>sə.la, akilu, fe:mina, fam, embra, femmina, fembra, domina, dam, dopa, donna, infantem, infante, fante, sponsa, esposa, spoza, ispoza, mari:tus, ma:i, mari:do, marito, maridu, marit, mari:t, ma:ðre, marə, mari, patre, pa:ðre, pa:rə, pari, tata, tatə, animalia, omaj, alimaja, nəma:je, be:stia, bi:fja, pwasō, awem, abe, avi, aw, awikellum, wazo, passerem, paxaro, passero, paseru, pasəre, kanem, kan, kane, ka, can, sar pint, farpe, farpe, arborem, a:bə, arbol, albero, a:bvori, arvuri, abrə, arbul, arbore, silwa, selba, selva, səwva, pal, palo, paw, par, grano, grano, gra, gran, folia, oxa, fə:lə, frondea, frondza, raiθ, ʁais, ʁadi, radi:tfe, ʁa:di:ki:na, ʁasin, kortikea, korteθa, kortetfja, skortea, skortsə, skwas, skwartse, herba, jerba, ɛrba, jarbe, jarbə, gʁamen, grama, gram, kwerða, korda, kwan, kotenna, pja, karnə, karne, karne, kəni, karni, karn, sangʷinəm, sanjre, sangwe, sanj, sanjk, adeps, grasa, grasso, bapə, ka:ða, kola, koda, kawde, kua, plu:ma, pluma, pjuma, penna, pepa, panə, pwal, kapillus, kabejo, kapello, kabelu, tʃivja, cavej, kapitia, ka:beθa, kavettsa, kabesə, kap, testa, testa, o:rikla, orexa, orekkja, naso, nas, nariθ, nari:fe, naris, bukka, boka, bokka, gula, gola, uja, ungja, pjerna, gamba, kamə, 'ʃanʷbe, roði:la, manum, mano, maŋ, a:la, ala, a, alə, ale, bariya, panfja, pantse, tripas, spatula, espalda, spalla, iʃpadwə, əspa:lə, spal, spale, spate, san, anima, alma, awmə, almə, anime, iyaðo, fegato, fikat, lu:na, luna, ste:l:la, etwal, estreja, stella, akʷa, aywa, akkwa, agwə, age, apə, pluwia, jubja, pjodfja, ri:pa:ria, lakum, lak, lago, lago, lagu, layu, ʁak, mare, mar, ma:ʁ, mar, sal, sale, saw, sare, saksum, sasso, petra, pjeðra, pje:tra, pjatrə, lapidem, laude, lapide, hare:na, arena, arejə, arinə, sabulum, sabl, savalon, sabula, sabbja, pəlvar, terra, tjera, terra, tsarə, nuvola, nubladu, kalina, kaliðgine, kalizəj, nebula, njebla, nebbja, tinjeblas, fu:ma:ta, fumata, fuma:ta, fumasə, fumate, kajkia, θeniθa, wia, vwa, bia, via, stra:ta, estrada, strada, istrade, iʃtraðe, kammi: num, kamino, kammino, kamiju, monta:nea, mōtaj, montaja, montajna, muntajə, mōtajə, dia, zəvə, diurna:ta, xornada, dʒornata, dʒornade, annum, a:po, anno, a:n, a:n, an, bərbat, lingʷa, lengwa, lingwa, manduka:re, mandukar, mandgare, mēzək, mēzər, mənʒa, ma:ni, manja, minka, mwardi, moskar, morsikare, musaga, musəgar, musəya, murseka, suga:ʁ, sugar, skujpa, eputar, sputare, bomitar, vomitare, vumita:ʁ, vumitar, bumita, avomita, soplar, soffjare, sopra:ʁ, suprar, respirar, respirare, ʁəspira:ʁ, ʁi:spira:ʁ, rəspira, arespira, aride, vwa:ʁ, avedə, awzi, sapere, savwa:ʁ, saber, sabə:ʁ, save:, kwidar, kodʒitare, kuzita:ʁ, kuzitar, kujda, kuðgeta, pensar, pensare, pəsə:ʁ, pəsar, pənsa, pəsa, ulura, odorare, fragrare, fejra:ʁ, fejrar, fləjra, tremare, dwa:mi, via, nəga, neka, anegar, annegare, makta:re, mate, matar, mata:ʁ, metar, məta, ma:fja, pupar, pu:njare, pupa, battuere, bat:ʁ, batir, battere, bate:ʁ, batrə, bate, bati, kaptia:re, fase, kaθar, kattfare, kasə:ʁ, kəsar, kəsa, ca:fja, puxar, pulsare, pu:fə:ʁ, pu:fjar, pulsa, segar, segare, sega:ʁ, siyar, səya, kortar, kōsta:ʁ, kurtar, skortare, skurta, taxar, ta:l:la:re, ta:lə:ʁ, təlar, təla, taja, təja, parti:re, pa:ti:ʁ, parti:ʁ, partire, pa:ʃi:ʁ, parti:ʁ, se:para:re, separar, separa:ʁ, sipərər, səpəra, separa:ʁ, separa, raer, radere, ʁa:ʁ, rawrə, radar, rade, rasar, rasare, ʁa:ʁ, ʁəzar, rəza, rasa:ʁ, raskar, ʁa:fka:ʁ, ʁəfkar, rəska, kosa:ʁ, kusar, kawa:re, kabar, kavare, keva:ʁ, kevar, kəba, java:ʁ, ekskawa:re, eskabar, skavare, iʃkəva:ʁ, iʃkəvar, zjava:ʁ, nata:re, nadar, nwotare, nada:ʁ, nəðar, nəda, nada:ʁ, naviga:re, na:ze, nabegar, navigare, naviya:ʁ, nəviyar, nəbəga, naviga:ʁ, naviga, bolar, volare, voa:ʁ, vwar, bula, zvolare, zbura, kaminar, kamminare, kəmi:na:ʁ, kəmi:na:ʁ, kəmi:na, camina:ʁ, ma:ʃe, ambita:re, andar, andare, ɛda:ʁ, ɛdar, jake:re, jaθer, dʒa:fə:re, zawrə, swa:ʁ, sentar, sētar, estar, stare, iʃtar, əsta, sta, jebar, levare, leva:ʁ, livar, ləba, lua, altia:re, alθar, altsare, a:ʃa, a:ʃsar, əlsa, altfja:ʁ, tornar, tornare, to:nə:ʁ, turnar, turna, turna, xirar, dʒirare, zira:ʁ, zira, birar, virare, virar, bira, kadere, fwa:ʁ, kaer, kadere, kawrə, tʃjade, tumber, tōba:ʁ, tōbar, tumba, dare, dar, da:ʁ, dar, da, donare, donar, doa, duar, duna, segurar, sigura:ʁ, siyurar, serar, seba, sərar, səra, serare, θerar, serrare, si:ʁar, appektora:re, apretar, ɛpi:tar, fregar, fregare, frəga, frea, freka, iʃfrigar, iʃfriyar, frotar, frettare, frisar, frəsa, lawa:re, lave, laβar, lavare, levar, lava:ʁ, la, estarsir, enxugar, aʃfugare, ɛfugar, ɛfuyar, əfuga, uska, limpjər, lipar, tirar, tirare, tʃira, tira, trahere, trarre, traze, traðe, jakta:re, etfar, dʒettare, zejtar, xita, lankea:re, lanθar, lanfjare, ləsa, ləsar, lənsa, lanci:ʁ, lanfja:ʁ, arankar, arrontfjare, arunka, legar, legare, liya, lega, apta:re, atar, ɛtar, kontar, kontare, kōtar, kumta, enumerar, enumerare, enumera, numara, kanta:re, kantar, kantare, kētar, kōnta, canta:ʁ, kinta, xugar, dʒokare, zogə:ʁ, zuyar, zuga, zuka, flugtwar, fluttuare, flutuə:ʁ, flutuar, fluktua, fluctua, fluitare, kolar, kolare, koa:ʁ, kuar, ku:la, elar, dʒelare, zilar, zəla, dʒale, glakia:re, glase, gjattfjare, gləsa, gla:fja:ʁ, inglakia:re, ingetsa, auməntar, auməntare, augmentar, augmenta, in:fjar, enfiare, iʃar, imfla, umfla, gonfjare, kəwatə:ʁ, bru:fjare, kəame, kemar, kremare, kəjmare, kəjma:ʁ, krəma, flamma:re, flamear, fjammar, flama, arde:re, a:ðə, arder, ardere, a:ðə:ʁ, arde, flagra:re, flagə:ʁ, flagrar, flagrare, flagra:ʁ, flagrar, in:fəndjare, isendʒar, isədjər, ustolare, ustura, tantus, tanto, tant, tanc, alguno, alkuno, awgū, a:lgū, alter, altro, altrə, altri, alt, alius, aw, a:ʃ, magnus, ma:po, ma:po, grandem, grande, grande, gran, grant, mare, largus, la:ʒ, larʒo, largo, la:gu, largu, ʁark, lark, larg, lato, latu, lat, amplius, anfjo, ampjo, amplə, krassus, graso, grasso, grafu, gras, gras, gras, grawis, grabe, gravi, gravi, grav, pe:sant, pesa:ðo, pesante, pezadu, pizaðu, pəzat, pezant, angustus, angosto, angusto, etkwa, delya:ðo, delikato, dewgadu, delya:ðu, dəlikat, kalidum, kaliðo, kaldo, fɪwə, ma:ʃum, malo, katti:vo, maw, ma:ʃ, marfjo, sal, murdar, dɪwə, ta:rənt, aku:tum, ayu:ðo, affila:to, ɛfiadu, əfilat, ku:a'hə, askutsit, moxa:ðo, ba:nja:to, mu:lat, ba:nja:t, θerka, aprəape, lon'tan, departe, dɪwat, destra, fa:wum, iθkjerða, 'tʃanʷp, galbinus, galben, amarellus, amarijo, amarelu, albus, albo, awvu, alvu, alb, nwa:ʁ, duas, kʷattwor, katə, kwatro, kwattro, kwatru, kwatrə, kwat, kwatri, patru, aki, la, aja, əla, ai, kwa, kʷando:ʁ, kwando, kwan, kwand, kwant, ad, a, a, abhoc, avek, avu, pa:ʁskə</p>
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### Appendix 3 - Segments used in the word list

29	e	ekilu, femeev, femje, done, ifpozē, merīdu, biše, paseru, sēlve, frute, foļe, frōse, ķeif, košfise, kurtise, eķve, erve, grēme, greme, koķde, koķde, koķje, kodie, goķdure, gurķure, kawde, pene, ķēβelu, kabese, ķēβese, teste, tešte, orele, orējlē, nerif, boka, upē, peķne, peķ.ne, ētreņes, ētreņef, ifpadwe, awme, almē, fiģedu, fiģēdu, lue, istrele, ifstrele, agwe, juve, pedre, peķre, areje, eřeje, teķe, teķe, kelizēj, nevve, trevef, fumase, sīzeļ, vie, istrade, iftrade, kemiju, mōtēre, mōtēre, diē, enu, liģwe, seber, meķar, beķer, keķar, teķar, peķtir, siķerar, vēer, vēzar, vēķkar, keķak, keķar, ifķevak, ifķevak, peķar, neviķar, kemijak, kemijar, zeķek, zeķer, ķeir, ēpirtar, lēvar, trezer, ētar, erder, efiadu, direjte, direjte, ifķerde, emarelu, emerelu, duēs, duef, eki, ei, ē
30	u:	tu:, lui:, u:he:, fru:ktus, funis, u:, u:f, kornu:, plu:ma, u:j, kru:s, genu:, ku:ķ, ku:r, lu:na, plu:ķ, flu:men, nu:be:s, nu:bilus, nu:l, fu:ma:ta, gelu:, fu:mus, fu:k, ķģu:, ķģu:, suģere, tu:tar:i, tu:rne, eksu:ka:re, pu:si:, lu:dere, flu:ktua:re, bķu:le, ku:ķ, minu:tus, minu:t, du:ze:, su:ti, 'ju:f, pu:'ri, aku:tum, u:midum, u:num, ifemu:t
31	y	ty, fry, plym, lyn, ķy, ny, njoly, fyne, nyt, syse, sysi:, kōspye, zygyle, gyra:re, flyktqe, flye, bķyle, mōny
32	d	usted, domina, dam, doņa, dōnna, done, dōna, dōem, dōne, dōamnā, maridu, ma:dre, pa:dre, peduklus, pidākkjo, pedoli, pādukje, frondea, ra:di:kem, ra:di:ke, ķadi, radi:fe, ra:di:ki:na, rādāfina, koķd, korda, koķde, kodie, vjād, adeps, goķdure, kaūda, koda, kawde, kōde, cōade, dentē, dā, djente, dente, dētfi, dēti, dē, 'dint, dinte, pedē, pjē:de, dorsum, do, dōsso, dos, dō, espalda, ifpadwa, fiģedu, pjōdķa, pedre, lapidem, laude, lapide, pudķ, nubladu, sādķ, sendrā, sē:d, estrada, strada, istrade, dies:, dia, di, diē, diā, diurnum, djurno, diurna:ta, xorna:da, dōrnade, komedere, manduka:re, mandukar, morde:re, mōvķķ, mōrdere, mōvķķ, mwardi, spuda:, ri:de:re, ri:dere, 'ridi, aride, wide:re, vede:re, 'vjodi, avedēa, aūdi:re, ātāķķ, udi:re, ķuide, kwidar, kujda, odo:ra:re, odorare, kvēdķ, dormi:re, dōvķiķ, dormir, dormire, dōvķiķ, durmir, durmi, dwakmi, durmi:, dormi, okki:dere, utfidere, utfide, di:widere, dibidi, dividere, diviķir, dibidi, dividi, divide, skindere, sēde, jindere, findere, fādķ, ender, fēndere, fēdeķ, fēder, fēndrā, pwēdķ, ra:dere, radere, rada:, rade, fodere, nadar, nadak, nōda, nada:, andar, andare, ēdāķ, ēdar, ekstendere, etāķķ, ekstender, estendere, ištēdeķ, ištēdrā, ostendrā, ekstinde, sede:re, sedere, fedēa, sedentare, tōvķķ, kadere, kadere, fķjade, kōdeķa, dare, dar, daķ, dar, da:, da, donare, dōne, donar, doa, duar, duna, dine, eprēdķ, etēdķ, limpida:re, kudķ, di:kere, diķ, deķir, dire, dizer, di, di:ķ, di:, lu:dere, ludir, arde:re, aķdķ, arder, ardere, aķdeķ, erder, arde, inkendere, ēsādje, enθender, infēndjare, iķēndjar, ānsendrā, infjindze, todo, todū, dut, grandem, grande, grande, grēdi, gurdus, gordo, lurdus, lerdo, lordo, pezadu, menudo, miudu, de:lika:tus, du:ze:, dēļādo, delikato, dewgadū, dēļādu, dālikat, kalidum, kaldo, fri:gidum, putridum, podri, putred, sordidus, murdar, dķwa, drito:, direjtu, direktu, drō:, 'drēt, drept, rotundum, ređondo, ton.do, iķidōdu, rotund, efiadu, neted, u:midum, umidu, ud, 'dōņje, departe, dekstrum, djestro, destro, destru, deķtru, destrā, di:re:ktus, dķwat, deretf, destra, direjte, direjte, dret, drō:t, wiridem, berde, verde, verdi, verde, duo:s, do, dos, dojs, dojf, dō:, doj, duat, due, dowā, duas, duēs, duef, k'uid, unde, onde, ōdi, deunde, dō, donde, k'wando:, kwando, kvēdu, kwand, kind, k'wōmodo, ad, deintus, dā, dins, k'wōd, prok'wid
33	f	femina, fam, femmina, femeev, femje, fembra, fōem, femine, femeje, infantem, āfā, infante, fante, ifēfji, ifēti, efā, fru:ktus, fķqi, fruto, frutto, frute, frujt, fry, frut, frukt, folia, fōej, fōļļa, fōļe, fuļā, fōj, fwee, fōaje, frondea, frondza, frōse, frunzā, flo:rem, floķ, flor, fjo:re, floķ, flo, flo:ķ, flo:r, floare, fu:nis, ōef, u:f, jifri, jifri, ca:f, fi:ka:tum, fwa, fegato, fiģedu, fiģēdu, fedķā, fōt, fījat, fikat, flu:men, fjume, flumi, flumi, flum, fu:ma:ta, fyne, fumata, fuma:ta, fumase, fumate, nef, fu:mus, fumo, fumu, fum, fokum, fō, fwego, fwōko, fogu, fōyū, fōk, fō:, fu:k, fok, fla:re, sufle, soffjare, fra:gra:re, flēķe, fragrare, flājra, findere, fādķ, fēndere, fēdeķ, fēder, fēndrā, fēt, fodere, fwīķ, frika:re, fķje, fregar, fregare, frēga, froj, frea, freka, iffrigar, iffriķar, frikta:re, fōte, frotar, frettare, frisar, frasa, flu:ktua:re, flyktqe, flugtwar, fluttuare, flutuak, flutuar, fluktua, fluctua, fluita:re, fluitare, fluere, flye, fluir, fluire, flwiķ, flwir, flui, infla:re, āfle, enfiare, imfla, ēfle, enfla:, umfla, konfla:re, gōfle, gonfjare, zgloņfa:, flamma:re, flābe, flamear, fjammare, flama, flagra:re, flagķe, flagrar, fragrare, flagvāķ, flagrar, gķijef, bķef, bķef, fri:gidum, fķwa, frio, fred:ō, friu, frēt, fķō:, 'fret, 'ju:f, 'frajt, affila:to, efiadu, āfilat, sinfilo
34	e:	femina, be:stia, se:men, pe:l, ste:lla, pjē:tra, pjē:re, hare:na, nu:be:s, tene:braj, tene:bras, nef, dies:, morde:re, ri:de:re, wide:re, vede:re, save:, pe:nsa:re, ole:re, time:re, se:para:re, jake:re, dķaķe:re, sede:re, tork'we:re, tene:re, e:runka:re, e:numera:re, intume:skere, kre:ske:re, arde:re, omne:s, pe:sant, de:lika:tus, du:ze:, 'fret, ple:num, re:ktum, korre:ktum, di:re:ktus, tre:s, 'tre:



### Appendix 3 - Segments used in the word list

35	m	<p>fe:mina, fam, embra, femmina, femev, femjv, fembra, foem, femine, femeje, mulierem, muxer, moλλe, muλεv, muλεr, muλε, muir, mujere, domina, dam, doem, doamnə, hominem, ɔm, ombre, omēj, ɔmēj, ɔmə, ɔm, om, homo: wɔmo, infantem, mulier, muxer, moλλe, muλεv, muλεr, muλε, muir, mujere, mari:tus, maʁi, mariðo, marito, maridu, məriðu, marit, marit, mərit, ma:trem, meʁ, maðre, ma:dre, mēj, marə, meʁ, mari, animalia, omaj, alimaʁa, nema:l, nəmaje, piskem, awem, awikellum, passerem, kanem, serpentem, wermem, berme, verme, vɛʁmi, vermi, vɛrm, vjerme, arborem, semen, seme, sementis, səmās, simjente, semente, semēʃi, simēti, səmen, simēs, sementʃe, səmintʃə, gra:num, ra:di:kem, kortikem, flo:rem, gra:men, gʁamen, grama, grēmə, grēmə, gram, pellem, sang*inem, o:wum, plu:ma, plym, pluma, pjuma, plomə, plɔm, plume, gamba, kamə, manum, mē, mano, ma:no, mēw, maʁ, minə, kollum, dorsum, anima, ɔm, alma, awmə, almə, ɔ:m, anime, inimə, fi:ka:tum, so:lem, flu:men, fjume, flumi, flumi, flum, lakum, mare, meʁ, mar, maʁ, mar, meʁ, ma:r, sa:lem, saksum, lapidem, sabulum, pulwerem, ka:li:ginem, fu:ma:ta, fyne, fumata, fuma:ta, fumasə, fumate, kajlum, wentum, niwem, fu:mus, umo, fumo, fumu, fum, fokum, kinerem, kammi:num, ʃəmē, kamino, kammino, kamiju, kemiju, kəmi, montem, mɔ, monte, mōʃi, mōti, mun, mɔnt, munte, monta:nea, mōtaʁ, montajna, montajna, mōtəʁ, mōtəʁ, muntajna, mōntajne, noctem, diurnum, annum, no:men, no:me, nomi, nomi, nɔm, nume, no:minem, nombre, ombre, wo:mo, omēj, ɔmə, limbə, komedere, komer, kome, kumer, manduka:re, māze, mandukar, mandʁare, mēʒaʁ, mēʒaʁ, məʁʒa, maʁi, maʁja, minka, morde:re, mɔʁdɛ, mɔʁdɛr, mɔrdere, mɔʁdɛʁ, mɔrdɛr, mwardi, morsika:re, moskar, morsikare, musəga, musəgar, musəʁa, murseka, womere, vomix, bomitar, vomitare, vumitaʁ, vumitar, bumita, vo:mi, gomita:, avomita, simʃi, time:re, temer, temere, teməʁ, timer, temə, temi, teme, tremere, tremar, tremare, treməʁ, trimer, trima:, dormi:re, dɔʁmiʁ, dormir, dormire, dɔʁmiʁ, durmir, durmi, dwaʁmi, durmi:, dormi, muʁiʁ, morir, morire, mɔʁiʁ, muʁer, muri, mɔri, muri, muri, makta:re, mate, matar, matar, mɛtar, mɛta, maʃa:, ʃəmine, kaminar, kamminare, kemijar, kemijar, kəminar, kəmina, ʃimine, camina:, maʃe, ma:ʃi:, mergere, mɛrdʒere, mɛrdʒe, ambita:re, tumbar, tumba, tume, eksprimere, ekspremir, spremer, ispremer, əspremə, esprimi, skreme, limpida:re, limpjar, impingere, impindʒere, əmpɛʁə, impindʒe, komputa:re, kumta, e:numera:re, enumeʁe, enumerar, enumerare, enumera, numara, aʁumenta:re, oɡmōte, aʁumentar, aʁumentare, aʁumentar, augmenta, imfla, umfla, intume:skere, entumeθer, itumeser, krema:re, kɛame, kɛmar, kremare, kɛjmare, kɛjmaʁe, krəma, flamma:re, flamear, fjammare, flama, omne:s, multus, mu, muʃo, molto, mūjtu, mol, molc, mult, magnus, maʁo, maʁjo, grandem, majjo:rem, mare, amplus, ampjo, amplə, strimt, minu:tus, məny, menudo, minuto, miudu, miudu, mənut, minu, minu:t, mərunt, subti:lem, kalidum, fri:gidum, ple:num, nowum, wetum, bonum, maʁum, move, malo, maw, maʁ, mo:, putridum, maʃfo, mo:si:, murdar, re:ktum, rotundum, aku:tum, emuse, zmussa:to, u:midum, muje, moxaðo, umidu, umidu, muʁat, muʃi:, korre:ktum, propiŋk*um, ʃoŋgum, dekstrum, ʁəwum, vermikulus, vɛʁmɛj, bermexo, vermiλλo, vɛʁmɛlu, vɛʁmɛʃlu, bəʁmɛʃ, wiridem, amarellus, amarijo, əmaʁelu, əmɛʁelu, nigrum, u:num, ekkumhi:k, k*em, k*o:modo, kɔmā, komo, kome, komu, kɔm, kɔmē, ʃemu:t, kum, kum</p>
36	r	<p>embra, fembra, muxer, muλεr, ombre, muxer, muλεr, mariðo, maridu, məriðu, marit, maðre, marə, paðre, parə, paxaro, pasəru, pasəre, serpjente, sirpēti, ʃarpe, sjerpe, serp, ʃarpe, berme, vermi, vɛrm, arβol, albero, aʁvori, arvuri, abrə, par, fruto, frute, frujt, grano, grēw, gra, frōʁe, frunzə, kɔrtisi, korteθa, kurtisə, skɔartsə, flor, ʃjo:re, ʃloare, jerba, ɛrve, jarbə, grama, grēmə, grēmə, gram, kwerða, korðə, karne, karni, karn, sangre, grasa, goʁdure, gurdure, kwerno, ʃifri, ʃifri, korn, pəʁ, orexa, oreʁə, oreʃlə, ureʁə, nariθ, naris, nɛʁiʃ, gura, pjerna, pɛr.nɛ, piʃfoʁ, vɛtri, vɛtri, burtə, tripas, ɛtɛʁnɛʃ, ɛtɛʁnɛʃ, kor, square, estreja, istrelə, ɛftrelə, mar, pjeðra, pedrə, pɛðrə, pɛðrə, pjatrə, arena, areʃe, ɛʁeʃe, ərenə, ʃajβru, tɛʁnɛʃ, tənebrəs, ʃer, estrada, istradə, ɛftɛrə, djurno, zorn, xornada, nombre, ombre, bəʁbat, beber, bere, biβer, bɛwɛrə, komer, kumer, mandukar, mandʁare, mēʒaʁ, mɔrdɛr, mɔrdɛr, moskar, morsikare, sugar, kuʃpir, eskupir, esputar, sputare, bomitar, vomitare, vumitar, soplar, soffjare, soprar, suprar, respirar, respirare, ʁɛʃpirar, ʁiʃpirar, arespira, reir, ri:dere, ʁi, riwɛrə, aride, ber, vedə:re, ver, bɛwɛrə, oir, udi:re, ovir, saber, səber, konoθer, kupiser, kwidar, kuzitar, pensar, pensare, pɛsar, sentir, sɛtir, oler, ulura, ʃejraʁ, ʃejraʁ, ʃləjra, temer, timer, tremar, tremare, trimer, dormir, durmir, bibir, viver, biwɛrə, morir, muxer, muri, anegar, matar, mɛtar, utʃidere, pupar, batir, betar, batrə, kaθar, kɛsar, puxar, pufar, segar, siʁar, kortar, kurtar, taxar, tɛʁar, dibidir, diviðir, ender, fɛder, fɛndrə, partir, pɛrtir, separar, separar, sipɛrar, sɛpəra, pūʒir, raer, ʁəer, rawrə, rasar, ʁəzar, raskar, ʁəʃkar, kusar, kabar, kɛvar, eskabar, iʃkɛvar, nadar, nwotare, nɛðar, nabegar, nəviʁar, bolar, volare, vwar, zvolare, zbura, kaminar, kamminare, kemijar, andar, ɛðar, benir, venire, vir, ekstender, ɛftɛder, əstendrə, jaθer, ɟaʃte:re, ʒɛzer, zawrə, ser, sentar, sɛtar, estar, ɛʃtar, jebar, livar, alθar, aʃsar, tornar, turnar, xirar, ɟirare, ʒirar, ʒira, birar, virare, virar, bira, torθer, kaer, kadere, kɛir, tumbar, tɔbar, dar, donar, duar, tener, tenere, ter, segurar, siguraʁ, siʁurar, ekspremir, əspremə, serar, sɛrar, θerar, siʁar, apretar, ɛpiɛtar, estɛpiɛr, əstɛpiɛr, fregar, frəga, iʃfriʁar, iʃfriʁar, frotar, frisar, frasa, laβar, lɛvar, estarsir, enxugar, ɛʃugar, ɛʃugar, limpjar, lipar, tirar, ʃira, tira, traze, tɛzer, tɛwɛrə, ɛʃar, ʒejtar, lanθar, lɛsar, arankar, arunʁa, legar, atar, ɛtar, koser, kuzer, kontar, kɔtar, enumerar, enumera, deθir, dizer, kantar, kɛtar, ludir, xugar, zuyar, flugtwar, flutuar, fluir, flwir, kolar, kuar, eskurir, iʃkurer, skurdʒe, korer, kuser, kurdʒe, elar, ʒilar, aʁumentar, aʁumentar, inʃar, ɛʃar, entumeθer, itumeser, kreθer, kreseʁ, kɛʃser, kɛʃə, kɛʃte, kɛmar, kɛjmare, flamear, arder, ɛrdɛr, arde, flagrar, flagrar, enθender, ɛsɛndʒar, ɛsɛndʒar, ənsendrə, otro, owtru, altrə, grande, grēdʒi, grēdi, mare, larʁo, largu, ʁark, graso, grafu, gras, gordo, grosu, grosu, grəs, grabe, gravi, gravi, grew, grew, lerdo, korto, kurtu, kurt, brebe, bɛvi, bɛvi, brew, estɛʃfo, istɛʃtu, ɛftɛʃtu, əstɛt, friu, friu, frɛt, reʃe, rəw, poðriðo, poðri, puðrit, putred, brut, murdar, direjtu, direktu, drept, rotund, θerka, pertu, əpɛp, apɛpəpe, departe, djestro, dɛstru, dɛʃtru, dɛstrə, derɛʃfo, direjtu, dɛt, iθkjerða, iʃkɛrðə, roʃu, bermexo, vɛʁmɛʃlu, berde, verdi, vɛrt, verde, amarijo, əmaʁelu, əmɛʁelu, grɔk, nɛʁo, negru, nɛʁrə, pɛjeto, pretu, tres, tɛʃ, kwatro, kwatru, kwatrə, porke, purke, purki</p>

### Appendix 3 - Segments used in the word list

37	œ	fœm, doem, fœj, floek, œf, œj, gœl, koek
38	ε	femine, efā, pes, pehō, utfello, utfjel, sjekpē, serpe, verm, vjer, vjer, sewva, sēlvē, selve, sementfē, gven, ærel, řesen, ekb, erba, ervē, jēr, gvaemen, pēli, pjel, 'vwes, kwen, kōde, plume, pen, peņā, pene, pel, kəbēl, fəve, tet, testa, testē, tējtē, fjes, teste, urelā, bōce, dēnte, 'əŋgule, pē, pēw, pēr.nē, kwel, spale, petto, pet, əstel, stēle, mek, sel, peðrē, terra, tēkē, tērā, tjere, nevwē, tenebē, trevēf, sjel, fēlo, sew, sel, vento, nēz, nē.vi, nevi, zel, dēlo, zēl, sendrā, fjinize, munte, 'lengē, bewrā, řespike, bewrā, vē'ji, səβē, kōnetē, kunefā, flekē, fjesi:, teji:, fendere, fendrā, nēdži:, merdžere, estendere, etē, es, spremere, sere, əstreņā, strengi:, tērdžere, tēkē, tēwrā, əmpēņā, džete, inťendjare, espesū, əspes, spē, grwes, gviјef, greve, grevi, bēf, brēve, brēvi, brēvi, əstret, stret, deļyaðu, frēt, pte, 'plēŋ, nō'vē, vek:jo, bēl, rēktā, 'drēt, sek, sek, sef, prē, 'dəŋjē, deŋtro, deŋtru, deŋtru, deŋtra, drēt, əskerā, vēkmej, bərmeļ, vērt, vēk, vērt, džen, əmarelu, əmərēlu, nēvgrā, tēs, kē, ε, pərke
39	x	muxer, muxer, paخaro, pjoخo, oخa, oreخa, oخo, xornada, puxar, taxar, xirar, enxugar, xita, xugar, bjexo, moخado, lexos, roخo, bermexo
40	к	mulēk, mulēk, mavi, mek, pek, sekpā, sekpēfi, sjekpē, vek, vēkmi, akv, akvori, fūci, gven, vais, vēif, vadi, vasin, kōkfisi, kōkfise, ekovs, floek, flok, flōk, evb, evvē, gvaemen, kōkd, kōkdē, kavni, fjo:k, gves, govdure, kovn, ovej, pekvē, vātē, ātkaj, kōek, kōv, ku:v, plu:v, vū, viw, viū, kivjek, rivi:k, mek, mav, mek, pjev, pi:k, pudk, tek, tēkē, tēkē, tē:k, tenebē, si:k, sādē, ziv, zōpa, zivne, bwak, bebev, bō:k, mēzak, mōdk, mōdek, sugak, kuspik, vomik, vumitar, soprak, řespike, řespirar, řispirar, řespike, vik, vič, vi:k, vvak, vek, ātādē, o(w)vik, savvak, sabek, kōnetē, kōnesek, kuzitak, pēsak, sātik, sēfjiv, flekē, fejrak, temek, kēdēk, tremek, dōvmik, dōvmik, dvakmi, vivk, vivek, muvik, mōvek, muker, matak, əksik, batk, batek, kasak, puřak, segak, kōtak, ekvte, talak, džividživ, fādē, fēdek, paktiv, paktiv, sāvke, separak, pvēdē, pūzik, vak, vev, vaze, vazak, vazar, vřakar, vřkar, fwiv, kevav, ijkēvav, nadak, navivak, voak, kemivak, mavse, vādē, vōnik, vik, etādē, istēdek, zeziv, zezek, swak, sek, etē, levak, tuvne, tovnak, zivē, vike, tōvdē, fvak, tōbak, dak, tōnik, tek, sigurak, evēdē, iřpramek, seka, seke, sivak, etēdē, fveje, fvōte, tivē, tēk, kudk, enumeve, div, di:k, zogak, flutuak, flviv, koak, iřkovēk, kuviv, kovēk, kvek, kvvatē, kresek, kvyle, kvu:le, kvame, kejkake, avdē, avdek, flagve, flagvak, otē, gvā, gvā, lavz, lavgu, gvā, gvō, gviјef, luk, kuv, kvtu, ku:k, bēf, bēf, etēwa, stē:, fřwa, fř:, pu'vi, dvwa, vō, vidōdu, tvāfā, pve, pevtu, dvvat, vu, vofū, vofu, vēkmej, vēkmeļ, vuz, vek, vek, nvak, nō:k, tkwa, katk, pavskā
41	п	dōpa, niņo, alimapa, baņā, peņa, peņā, upa, upē, pjo, ētreņes, ētreņef, kamiju, kemiju, mōtap, montapa, montapa, mōtēņē, mōtēņē, muntapa, montape, pōt, apo, ap, mōņza, mapi:, kōnesek, kupiser, kōnosi, pupar, puppare, pupa, pupi, kemivak, kemivak, viji:, estreņir, əstreņā, əmpēņā, oņni, maņo, maņno, pekeņo, 'ju:f, baņna:to, ba'na:t, lup
42	qa	dqamnā, fəaje, skqartsā, flqare, cqadā, sqare, plqaje, nqapte, kunqaste, tqartfe, cqase, aprqape
43	ēj	omēj, əmēj, nenēj, nuvēj, kalizēj, omēj, kēj, nēj, ēj
44	ō	ō, mō, nō, kōspye, lō, dō, nō
45	ā	āfā, efā, sekpā, sāmās, vjād, sā, dā, zāb, džāb, vātē, ātkaj, vā, sādē, ā, lāg, māze, ātādē, pāse, sātik, fādē, etādē, lāse, jāte, fāte, ogmāte, āfle, flābe, ēsādje, gvā, gvā, āpl, pōzā, tvāfā, kā, kōmā, dā
46	ī	ifēfi, ifēti, sizef, kamiju, ligvē, əftrizir, əftrizir, lipar, iřar, itumeser, isendžiar, isēdjar, siku
47	ē	ifēfi, ifēti, grēmē, sēgi, sēgi, mōtēņē, mēzak, mēzar, vādē, vadar, lēsa, lēsar, kētar, tētu, tētu, grēdži, grēdi, vfu, kvēdu
48	fj	ifēfi, sōfjo, utfello, utfjel, fē, sekpēfi, semētfē, sementfē, səmintfā, radi:fē, rādāfjinā, kortife, kōkfisi, kortetfa, kōkfise, fjo:k, fživja, fjes, narife, dēfi, panfa, pefjo, fēatfā, fēlo, fji:l, fjer, fjenere, fjinize, fjenufā, mōfi, notfe, mafar:, utfidere, ufide, katfare, fjesi:, cařar:, pavfiv, fimine, ma:řfi:, džatfe:re, zāfēa, tōtfere, tqartfe, fē:r, fjade, fira, efar, lanfare, lanfa:, arronfare, kufire, zitfe, fāte, gjatfjare, glatfa:, inřar, brufare, inťendjare, inťindze, muřo, anřo, pitřino, pitřul, estrefjo, suřiv, reťe, marřo, u'řat, seť, vitři:no, deretfo, 'řar"p, rōf, krotfēo, fřinkve, 'fřink, fřintf, fřine, fē, fēmu:t

### Appendix 3 - Segments used in the word list

49	p	sponsa, epuz, esposa, spōza, ispoza, ispozē, əspōzə, sponsus, epu, esposo, spōzo, ispozū, ispozū, əspōs, spo:s, patre, peḡ, padre, pa:dre, paj, parə, pər, pari, piskem, peḡ, peffe, pejfi, pejfi, peḡ, pes, pešte, pwasō, peḡ, passerem, paxaro, passero, paseru, pasere, peduklus, pu, pjoxo, pidokkjo, pioḡ, poḡ, pju, pedoli, pədukje, serpentem, seḡpā, seḡpjente, serpente, seḡpēḡfi, sirpēti, sərpen, sjəḡpē, sarpint, farpe, serpens, sjerpe, serpe, serḡ, farpe, pa:lus, pal, palo, paw, pa:l, par, jep, pellem, po, pijel, pelle, peli, peli, peḡ, pja, pijel, pjele, adeps, plu:ma, plym, pluma, pjuma, plomə, plōm, plumē, penna, pən, peḡa, pene, peḡə, pen, pene, panə, pilus, pwal, pelo, pelu, pilu, pel, pe:l, pər, kapillus, kapello, kapitia, kap, pedē, pje, pje:de, pē, pəw, pi:, pit, piḡʹor, pjerna, peḡnə, pər.nə, piḡʹor, panḡa, pantse, tripas, spatula, epol, espalda, spalla, isḡpadwē, əspaḡḡā, spal, spale, spate, pektus, pi, peḡo, petto, pejtu, peḡtu, pit, peḡ, piept, apə, pluwia, plqi, pjodḡa, pluḡə, plu:ḡ, ploje, pləaj, riparia, petra, pjəḡ, pjeḡra, pje:tra, pedre, peḡre, peḡḡ, pi:ḡ, pjere, pjatrə, lapidem, lapide, pulwerem, pudḡ, polvere, polvar, pulbere, pulwus, polbo, pō, pols, nḡapte, konspuere, kōspyē, kuspiḡ, kuspiḡ, eskupiḡ, əskupi, skujpa, sputere, esputar, sputare, spuda:, soplar, sopraḡ, suprar, spi:ra:re, ʷespiḡe, respirar, respirare, ʷespiḡar, ʷispiḡar, rəspira, ʷespiḡe, respirar, arespira, sapere, peḡsa:re, pāse, pensar, pensare, pēsəḡ, pēsar, pənsa, pēse, peḡsa:, pəsa, pugna:re, puḡar, puḡḡare, puḡa, kaptia:re, pulsa:re, puse, puxar, pulsare, puḡar, puḡar, pulsa:, pulsa, parti:re, paḡtiḡ, partir, partire, paḡḡiḡ, pərtir, parti, pō:rti, parti, se:para:re, separar, separare, separaḡ, siḡperar, səpəra, separa:, separa, pungere, pḡēḡ, pundeḡe, pūziḡ, pūzir, puḡi, pundeḡ, eksprimere, epḡēḡ, ekspremir, spremere, isḡrəmeḡ, isḡrəmeḡ, əspremə, esprimi, appektora:re, apreḡar, epirtar, limpida:re, limpiar, lipar, puse, pu:s:i, pulsa:, impingere, impindeḡe, əmpeḡə, impindeḡ, apta:re, komputare, ekspo:nere, sporre, spune, paḡkus, pō, pokō, pōko, powku, pōk, pō, pō:k, amplus, āpl, ampio, amplə, spissus, epe, espeso, spesso, espesu, ispesu, əspes, spē, pe:sant, pəḡ, pesaḡo, pesante, pezadu, pizaḡu, pəzat, pezant, pittitus, pəti, pətit, piti, 'pittinus, pekeḡo, pittḡino, pekenu, pikenu, putsin, pitulus, pikkolo, piḡful, suptil, ple:num, plē, pje:no, plē, 'plēḡ, plin, putridum, puri, poḡriḡo, podri, puḡrit, pu'xi, putred, spōrko, spōrk, drept, propiḡk'um, pḡe, peḡtu, pertu, əḡrəp, pḡe, apḡape, departe, 'ḡjaḡ'p, prieto, pretu, patru, prok'wid, paḡska, porke, perke, purke, purki, pərke
50	z	epuz, spōza, ispoza, ispozē, əspōzə, spōzo, ispozū, ispozū, wazo, frunḡə, siḡzē, ḡfinize, zi, awzi, ʷaze, ʷazaḡ, ʷezar, rəza, zjava:, zvolare, zvola:, zbura, zeziv, zezek, zezet, zəḡḡa, traze, trezer, kuzer, kuzi, kō:z, kuzi, dizeḡ, ziḡḡe, zgloḡfa:, bruza:, pəḡḡ, pezadu, pizaḡu, pəzat, pezant, zmussa:to, lizu
51	ḡ	marido, meḡiḡu, maḡre, padre, kwerḡa, koḡḡe, gurdure, roḡiḡa, iyaḡo, fiḡeḡu, pjeḡra, peḡre, peḡḡ, isḡraḡe, moḡer, muḡer, diviḡir, neḡar, toḡu, pesaḡo, pizaḡu, miuḡu, deḡyaḡo, deḡyaḡu, kaliḡo, poḡriḡo, puḡrit, reḡondo, ruḡo, aḡuḡo, moxaḡo, umiḡu, iḡkjerḡa, iḡkerḡe
52	ts	sots, skōḡsa, skwartse, skōḡstə, tḡeastə, pantse, tsarə, altsare, tsine, ingetsa, putsin, subsire
53	a:	ma:trem, ma:dre, pa:dre, nema:l, pa:lus, pa:l, gra:num, ra:di:kem, ra:di:ke, ra:di:ki:na, gra:men, ca:r, 'kwa:r, ca:f, na:sus, na:so, na:s, na:ris, ma:no, a:la, fi:ka:tum, fija:t, riparia, la:t, ma:r, sa:lem, sa:l, ka:li:ginem, tene:bra:s, fu:ma:ta, fuma:ta, stra:ta, monta:nea, diurna:ta, manduka:re, maḡja:, morsika:re, cuca:, spuda:, gomita:, ḡla:re, spi:ra:re, respirar, ko:gitare, peḡsa:re, peḡsar, odorare, fragra:re, trima:, neka:re, tu:ta:ri, makta:re, maḡa:, pugna:re, kaptia:re, caḡa:, pulsa:re, pulsar, seka:re, sea, kurta:re, ekskurta:re, skurta:, ta:lia:re, taḡḡa:re, taja:, se:para:re, separa:, jugula:re, jugula:re, ra:dere, rada:, rasa:, kawa:re, java:, ekskawa:re, zjava:, nata:re, nada:, naviga:re, naviga:, wola:re, zvola:, camina:, ma:rḡfi:, ambita:re, sedenta:re, senta:, sta:re, sta:, leva:re, leva:, altia:re, altja:, torna:re, torna:, gyra:re, ḡira:, da:, appektora:re, frika:re, frikta:re, lawa:re, lava:, eksuka:re, suja:, limpida:re, tira:re, tira:, pulsa:, jakta:re, lankea:re, lanḡa:, e:runka:re, liga:re, lea:, apta:re, komputa:re, konta:, e:numera:re, kanta:re, canta:, joka:re, ḡuja:, flu:kтуа:re, fluita:re, ko:la:re, gela:re, glakia:re, glaḡa:, inglakia:re, augmenta:re, infla:re, enfla:, konfla:re, zgloḡfa:, bruza:, krema:re, flamma:re, flagra:re, ustula:re, la:tus, de:lika:tus, affila:to, u'ḡat, zmussa:to, sua:wē, baḡḡa:to, ba'ḡat, lontano, illa:k
54	ēj	mēj, nuvēj, keḡizēj, kēj, nēj, ēj
55	r	meḡ, vjeḡ, fry, reḡen, ḡraj, savō:r, mōri, pō:rti, ma:rḡfi:, ḡḡe:r, sərar, seḡe, isḡkurer
56	aj	paj, ḡraj, ajyḡə, sajḡru, tene:braj, kajkia, kajlum, ni:vaj, nwaje, traj, majjo:rem, 'frajt, duaj
57	e:	pər, u:he:, ḡ'he:, pje:de, e:w, te:ḡ, te:nebre, te:nebre, ḡḡe:r, pje:no, kwe:
58	ḡ	peḡ, raiḡ, korteḡa, kaḡeḡa, nariḡ, ḡjelo, ḡeniḡa, konoḡer, kaḡar, jaḡer, alḡar, torḡer, ḡerar, lanḡar, deḡir, entumeḡer, kreḡer, enḡender, suḡjo, ḡerka, iḡkjerḡa, ḡinko
59	ej	pejfi, cavej, oḡej, seju, pejtu, sejfu, areje, fejraḡ, zejtar, kejməḡe, istrejtu, trej
60	vj	pejfi, orejḡe, seju, pejtu, sejfu, areje, fejrar, kejməre, iftrejtu, seju, direjtu, direjḡe, virmejḡu
61	ō	pwasō, peḡō, frōse, ḡgl, ḡg, so:vjō, mōḡi, mōti, mōḡan, mōḡeḡe, nō, tōbe, tōbaḡ, kōte, kōtar, ḡōfle, pō, ḡt, lōgu, lō, bō, kō, viḡḡoḡu, rō, lōzi, lōzi, lō, ḡ, ḡḡi, ḡḡi, kō
62	ē	ḡḡe, ḡəme, pēse, sēti, sēde, fēt, pḡēḡ, epḡēḡ, etḡēḡ, ēsādje, kōmē
63	ēw	kēw, grēw, mēw, nēw
64	ē	ḡḡe, seḡpēḡfi, sirpēti, sjəḡpē, semēḡfi, simēti, simēs, karnē, dentē, dēḡfi, dēti, dē, pedē, mē, vētri, vētri, ētreḡes, ētreḡeḡ, sē, vētu, vē, pēsəḡ, pēsar, sēḡḡiḡ, sētir, kḡēḡ, fēdeḡ, fēder, istēdeḡ, istēder, sētar, ēḡugar, ēḡuḡar, ēfle, iḡsēḡar, kēti, kēti, plē, sua:wē, lwē, sēk, nē
65	c	can, ca:r, ḡḡadə, cavej, ca:f, boce, noctem, cuca:, caḡa:, camina:, lanci:, ḡḡase, canta:, fluctua, molc, tanc, abhoc
66	ij	kijne
67	β	arḡol, keḡelu, kaḡe

### Appendix 3 - Segments used in the word list

68	l	seɪvə, səl, nuʃuɫ, zɛɫ, ɫa:re, aɫsa, aɫsar, kuɫa, ɫama, aɫgũ, aɫ, deɫɣaðu, pɫɛ, maɫum, maɫ, ɫonɟum, ɫaɛwum
69	ɥ	fɪɥi, plɥi, nɥi, kuɫide, tɥɛ, esɥije, flyktɥɛ
70	g	grin, gran, gra:men, grama, sɔ:g, gula, gola, golə, gɔle, gurə, ɔg, 'ɔngule, ungje, age, lago, 'lɛnge, gomita:, fragrare, pugna:re, segar, segare, jugula:re, naviga:re, naviga:, mergere, gyra:re, stringere, stringe, strɛngi:, fregare, impingere, lega, xugar, glaɫɫa:, ingetsa, aɟumentar, aɟumenta, zgɫonɫa:, ɫagɫaɫ, alguno, magnus, grandem, gran, gɫɔ, grant, longo, lung, largus, larg, gras, gurdus, grossus, grosso, grosu, grwes, gros, grav, grevi, grew, ingust, goɫ, sting, grɔk, nigrum, negro
71	iw	griw
72	dʒ	frondʒa, dzornade
73	ø:	fɫø:ɫ, gø:j, fø:t, stø:l, fø:, bø:ɫ, savø:r, kø:z, stʒø:, fʒø:, drø:, drø:t, nø:ɫ, dø:, trø:
74	g <sup>w</sup>	sang <sup>w</sup> inem, unɟ <sup>w</sup> is, ling <sup>w</sup> a
75	ɲ	sangre, san, sanɫ, unɟ <sup>w</sup> is, unɟja, 'ɔngule, man, an, nɔɲ, lenɟwa, manɫa:, penɫsa:, arunɫa, zgɫonɫa:, ɫon, ingust, 'plen, bɔɲ, propinɫ <sup>w</sup> um, 'dɔɲɫɛ, ɫonɟum, lon'tan, sting, un, ɫɲinɫwe, sinɫ, 'ɫɲinɫ
76	õ:	sõ:g
77	au	kaɟda, aɟdi:re, aɟmenta:re, aɟmentar, aɟmentare, aɟmentar, paɟkus
78	ø	kø, ɫəvø, løn, fø, pø, vjø, dø
79	ɛa	tɛa:stə, stea, ɫɛaɫɫə, nɛa, bɛa, avedea, zəɫɛa, jedea, kədə
80	k <sup>i</sup>	ok <sup>i</sup>
81	ɫ <sup>i</sup>	piɫ <sup>i</sup> or, piɫ <sup>i</sup> or
82	ɟ	'jaɲ <sup>w</sup> be, manɫa:, ɟava:, zɟava:, 'dɔɲɫɛ
83	ɲ <sup>w</sup>	'jaɲ <sup>w</sup> be, 'ɫjaɲ <sup>w</sup> p
84	k:	ɫɟinok:jo, vek:jo
85	ç	ɫɟenunkç, çə:vle, vekç
86	ɣ	bariya, iɣaðu, fiɣeðu, aɣwa, aɣwə, layu, foyu, musəɣa, siɣar, səɣa, naviɣaɫ, neviɣar, siɣurar, iɫfriɣar, ɛɫɣar, ɫiya, zuɣar, larɣo, deɣaðu, deɫɣaðu, aɣuðu, seɣu, neɣro, neɣrə
87	ē:	vē:t, sē:d
88	a	āɫɫaj, am, fwa, hare:na, bwaɫ, taje, ɫaze, gɫa, tɫwa
89	ɔ:	ɔ:m, pɔ:rti, hɔ:si:, nwo:vo, bwo:no
90	ej	solej, fɛje, vɛɛmej
91	k <sup>w</sup>	ak <sup>w</sup> a, tork <sup>w</sup> ere, propinɫ <sup>w</sup> um, k <sup>w</sup> attwor, k <sup>w</sup> i:nk <sup>w</sup> e, k <sup>w</sup> is, k <sup>w</sup> em, k <sup>w</sup> id, k <sup>w</sup> ando:, k <sup>w</sup> o:modo, k <sup>w</sup> od, prok <sup>w</sup> id
92	ēu	lēu
93	o(w)	o(w)vix
94	ɲ	səɲti
95	ɫ <sup>i</sup>	sɛɫɫiɫ
96	ɫs	simɫsi
97	ũ	pũziɫ, pũziɫ, mũɫtu, awgũ, aɫgũ, ũ
98	ɫ	kosaɫ
99	a:	çə:vle
100	ɟ	mũɫtu
101	œ	okoœ, œ
102	d:	fred:o
103	t:	drit:o
104	ɥ	kuɫa'hă
105	ă	kuɫa'hă
106	ɛ	ɫaɛwum
107	ɔ	ɫoɫɔ

## Appendix 4 - Word Lists by Language

### Latin

Cognate	IPA	Sounds
I	ego:	ay-g-O
We	no:s	n-O-s
YouPlural	wo:s	w-O-s
They	ei:	ay-E
This	hik	h-e-k
That	ille	e-l-l-ay
YouSingular	tu:	t-U
He	is	e-s
Woman	fe:mina	f-ai-m-e-n-ah
Woman-Mulier	mulierem	m-u-l-e-ay-r-ay-m
Woman-Domina	domina	d-oh-m-e-n-ah
ManHumanBeing	hominem	h-oh-m-e-n-ay-m
ManHumanBeing-Homo	homo:	h-oh-m-O
Child	infantem	e-n-f-ah-n-t-ay-m
Wife	sponsa	s-p-oh-n-s-ah
Wife-Mulier	mulier	m-u-l-e-ay-r
Husband	mari:tus	m-ah-r-E-t-u-s
Husband-Sponsus	sponsus	s-p-oh-n-s-u-s
Husband-Socius	sokius	s-oh-k-e-u-s
Mother	ma:trem	m-A-t-r-ay-m
Father	patre	p-ah-t-r-ay
Father-Tata	tata	t-ah-t-ah
Animal	animalia	ah-n-e-m-ah-l-e-ah
Animal-Bestia	be:stia	b-ai-s-t-e-ah
Fish-Piskem	piskem	p-e-s-k-ay-m
Bird-Avem	awem	ah-w-ay-m
Bird-Avicellum	awikellum	ah-w-e-k-ay-l-l-u-m
Bird-Passerem	passerem	p-ah-s-s-ay-r-ay-m
Dog	kanem	k-ah-n-ay-m
Louse	peduklus	p-ay-d-u-k-l-u-s
Snake	serpentem	s-ay-r-p-ay-n-t-ay-m
Snake-Serpens	serpens	s-ay-r-p-ay-n-s
Worm	wermem	w-ay-r-m-ay-m
Tree	arborem	ah-r-b-oh-r-ay-m
Forest	silwa	s-e-l-w-ah
Stick	pa:lus	p-A-l-u-s
Fruit	fru:ktus	f-r-U-k-t-u-s
Seed	se:men	s-ai-m-ay-n
Seed-Sementis	sementis	s-ay-m-ay-n-t-e-s
Seed-Granum	gra:num	g-r-A-n-u-m
Leaf	folia	f-oh-l-e-ah
Leaf-Frondea	frondea	f-r-oh-n-d-ay-ah
Root	ra:di:kem	r-A-d-E-k-ay-m
Root-Radix	ra:di:ke	r-A-d-E-k-ay
Root-Radicina	ra:di:ki:na	r-A-d-E-k-E-n-ah
BarkOfATree	kortikem	k-oh-r-t-e-k-ay-m
BarkOfATree-Corticea	korticea	k-oh-r-t-e-k-ay-ah
BarkOfATree-Skortea	skortea	s-k-oh-r-t-ay-ah
Flower	flo:rem	f-l-O-r-ay-m
Grass	herba	h-ay-r-b-ah
Grass-Gramen	gra:men	j-r-A-m-ay-n
Rope	fu:nis	f-U-n-e-s
Skin-Pellis	pellem	p-ay-l-l-ay-m

## Appendix 4 - Word Lists by Language

Meat	karnē	k-ah-r-n-ehn
Blood	sang <sup>w</sup> inem	s-ah-n-gw-e-n-ay-m
Bone	os	oh-s
FatNoun	adepts	ah-d-ay-p-s
Egg	o:wum	O-w-u-m
Horn	kornu:	k-oh-r-n-U
Tail	kauda	k-au_diphthong-d-ah
Feather	plu:ma	p-l-U-m-ah
Feather-Penna	penna	p-ay-n-n-ah
Hair	pilus	p-e-l-u-s
Hair-Capillus	kapillus	k-ah-p-e-l-l-u-s
Head	kapitia	k-ah-p-e-t-e-ah
Head-Testa	testa	t-ay-s-t-ah
Ear	o:rikla	O-r-e-k-l-ah
Eye	okulus	oh-k-u-l-u-s
Nose	na:sus	n-A-s-u-s
Mouth	bukka	b-u-k-k-ah
Mouth-Gula	gula	j-u-l-ah
Tooth	dentē	d-ay-n-t-ehn
Fingernail	ung <sup>w</sup> is	u-nya-gw-e-s
Foot	pedē	p-ay-d-ehn
Leg	kru:s	k-r-U-s
Knee	genu:	g-ay-n-U
Hand	manum	m-ah-n-u-m
Wing	a:la	A-l-ah
Belly	wenter	w-ay-n-t-ay-r
Guts	wiskus	w-e-s-k-u-s
Neck	kollum	k-oh-l-l-u-m
Back	dorsum	d-oh-r-s-u-m
Back-Spatula	spatula	s-p-ah-t-u-l-ah
Breast	sinus	s-e-n-u-s
Breast-Pectus	pektus	p-ay-k-t-u-s
Heart	kor	k-oh-r
Heart-Anima	anima	ah-n-e-m-ah
Liver	fi:ka:tum	f-E-k-A-t-u-m
Sun	so:lem	s-O-l-ay-m
Sun-Soliculus	solikulus	s-oh-l-e-k-u-l-u-s
Moon	lu:na	l-U-n-ah
Star	ste:lla	s-t-ai-l-l-ah
Water	ak <sup>w</sup> a	ah-kw-ah
Rain	pluwia	p-l-u-w-e-ah
River	flu:men	f-l-U-m-ay-n
River-Rivus	ri:wus	r-E-w-u-s
River-Riparia	ri:pa:ria	r-E-p-A-r-e-ah
Lake	lakum	l-ah-k-u-m
Sea	mare	m-ah-r-ay
Salt	sa:lem	s-A-l-ay-m
Stone	saksum	s-ah-k-s-u-m
Stone-Petra	petra	p-ay-t-r-ah
Stone-Lapidem	lapidem	l-ah-p-e-d-ay-m
Sand	hare:na	h-ah-r-ai-n-a
Sand-Sabulum	sabulum	s-ah-b-u-l-u-m
Sand-Sabula	sabula	s-ah-b-u-l-ah
Dust	pulwerem	p-u-l-w-ay-r-ay-m
Dust-Pulwus	pulwus	p-u-l-w-u-s
Earth	terra	t-ay-r-r-ah
Cloud	nu:be:s	n-U-b-ai-s

## Appendix 4 - Word Lists by Language

Cloud-Secondary	nu: bilus	n-U-b-e-l-u-s
Fog	ka: li: ginem	k-A-l-E-g-e-n-ay-m
Fog-Nebula	nebula	n-ay-b-u-l-ah
Fog-Tenebrae	tene: braj	t-ay-n-ai-b-r-aj_diphthong
Fog-Tenebras	tene: bra: s	t-ay-n-ai-b-r-A-s
Fog-Fumata	fu: ma: ta	f-U-m-A-t-ah
Fog-Caecia	kajkia	k-aj_diphthong-k-e-ah
Sky	kajlum	k-aj_diphthong-l-u-m
Wind	wentum	w-ay-n-t-u-m
Snow	niwem	n-e-w-ay-m
Ice	gelu:	g-ay-l-U
Smoke	fu: mus	f-U-m-u-s
Fire-Focus	fokum	f-oh-k-u-m
Ash	kinerem	k-e-n-ay-r-ay-m
Road	wia	w-e-ah
Road-Strata	stra: ta	s-t-r-A-t-ah
Road-Camminus	kammi: num	k-ah-m-m-E-n-u-m
Mountain	montem	m-oh-n-t-ay-m
Mountain-Montanea	monta: nea	m-oh-n-t-A-n-ay-ah
Night	noctem	n-oh-tya-t-ay-m
Day	die: s	d-e-ai-s
Day-Diurnus	diurnum	d-e-u-r-n-u-m
Day-Diurnata	diurna: ta	d-e-u-r-n-A-t-ah
Year	annum	ah-n-n-u-m
Name-Nomen	no: men	n-O-m-ay-n
Name-Nominem	no: minem	n-O-m-e-n-ay-m
Tongue	ling* a	l-e-n-gw-ah
To Drink	bibere	b-e-b-ay-r-ay
To Eat	komedere	k-oh-m-ay-d-ay-r-ay
To Eat-Manducare	manduka: re	m-ah-n-d-u-k-A-r-ay
To Bite	morde: re	m-oh-r-d-ai-r-ay
To Bite-Morsicare	morsika: re	m-oh-r-s-e-k-A-r-ay
To Suck	su: gere	s-U-g-ay-r-ay
To Spit	konspuere	k-oh-n-s-p-u-ay-r-ay
To Spit-Sputare	sputere	s-p-u-t-ay-r-ay
To Vomit	womere	w-oh-m-ay-r-ay
To Blow	fla: re	f-ssha-A-r-ay
To Breathe	spi: ra: re	s-p-E-r-A-r-ay
To Laugh	ri: de: re	r-E-d-ai-r-ay
To See	wide: re	w-e-d-ai-r-ay
To Hear	au di: re	au_diphthong-d-E-r-ay
To Know	ski: re	s-k-E-r-ay
To Know-Sapere	sapere	s-ah-p-ay-r-ay
To Know-Cognoscere	kogno: skere	k-oh-g-n-O-s-k-ay-r-ay
To Think	ko: gita: re	k-O-g-e-t-A-r-ay
To Think-Pensare	pe: nsa: re	p-ai-n-s-A-r-ay
To Smell-Sentire	sent: re	s-ay-n-t-E-r-ay
To Smell-Olere	ole: re	oh-l-ai-r-ay
To Smell-Odorare	odo: ra: re	oh-d-O-r-A-r-ay
To Smell-Fragrare	fra: gra: re	f-r-A-g-r-A-r-ay
To Fear	time: re	t-e-m-ai-r-ay
To Fear-Tremere	tremere	t-r-ay-m-ay-r-ay
To Sleep	dormi: re	d-oh-r-m-E-r-ay
To Live	wi: were	w-E-w-ay-r-ay
To Kill	neka: re	n-ay-k-A-r-ay
To Kill-Tutari	tu: ta: ri	t-U-t-A-r-e
To Kill-Mactare	makta: re	m-ah-k-t-A-r-ay

## Appendix 4 - Word Lists by Language

ToKill-Occidere	okki:dere	oh-k-k-E-d-ay-r-ay
ToFight	pugna:re	p-u-j-n-A-r-ay
ToFight-Battuere	battuere	b-ah-t-t-u-ay-r-ay
ToHunt-Captiare	kaptia:re	k-ah-p-t-e-A-r-ay
ToHit	pulsa:re	p-u-l-s-A-r-ay
ToCut	seka:re	s-ay-k-A-r-ay
ToCut-Curtare	kurta:re	k-u-r-t-A-r-ay
ToCut-Excurtare	ekskurta:re	ay-k-s-k-u-r-t-A-r-ay
ToCut-Taliare	ta:lia:re	t-A-l-e-A-r-ay
ToSplit	di:widere	d-E-w-e-d-ay-r-ay
ToSplit-Scindere	skindere	s-k-e-n-d-ay-r-ay
ToSplit-Findere	findere	f-e-n-d-ay-r-ay
ToSplit-Partire	parti:re	p-ah-r-t-E-r-ay
ToSplit-Separare	se:para:re	s-ai-p-ah-r-A-r-ay
ToStab	pungere	p-u-n-g-ay-r-ay
ToStab-Iugulare	jugula:re	jg-u-g-u-l-A-r-ay
ToScratch	ra:dere	r-A-d-ay-r-ay
ToDig	fodere	f-oh-d-ay-r-ay
ToDig-Cavare	kawa:re	k-ah-w-A-r-ay
ToDig-Excavare	ekskawa:re	ay-k-s-k-ah-w-A-r-ay
ToSwim	nata:re	n-ah-t-A-r-ay
ToSwim-Navigare	naviga:re	n-ah-v-e-j-A-r-ay
ToFly	wola:re	w-oh-l-A-r-ay
ToWalk-Mergere	mergere	m-ay-r-j-ay-r-ay
ToWalk-Ambitare	ambita:re	ah-m-b-e-t-A-r-ay
ToCome	weni:re	w-ay-n-E-r-ay
ToLieAsInABed	ekstendere	ay-k-s-t-ay-n-d-ay-r-ay
ToLieAsInABed-Iacere	jake:re	jg-ah-k-ai-r-ay
ToSit	sede:re	s-ay-d-ai-r-ay
ToSit-Sedentare	sedenta:re	s-ay-d-ay-n-t-A-r-ay
ToStand	sta:re	s-t-A-r-ay
ToStand-Levare	leva:re	l-ay-v-A-r-ay
ToStand-Altiare	altia:re	ah-l-t-e-A-r-ay
ToTurnIntransitive	torna:re	t-oh-r-n-A-r-ay
ToTurnIntransitive-Gyrare	gyra:re	j-eeh-r-A-r-ay
ToTurnIntransitive-Torquere	tork <sup>w</sup> e:re	t-oh-r-kw-ai-r-ay
ToFall	kadere	k-ah-d-ay-r-ay
ToGive	dare	d-ah-r-ay
ToGive-Donare	donare	d-oh-n-ah-r-ay
ToHold	tene:re	t-ay-n-ai-r-ay
ToSqueeze	eksprimere	ay-k-s-p-r-e-m-ay-r-ay
ToSqueeze-Serrere	serrere	s-ay-r-r-ay-r-ay
ToSqueeze-Serare	serare	s-ay-r-ah-r-ay
ToSqueeze-Appetorare	appektora:re	ah-p-p-ay-k-t-oh-r-A-r-ay
ToSqueeze-Stringere	stringere	s-t-r-e-n-j-ay-r-ay
ToRub	frika:re	f-r-e-k-A-r-ay
ToRub-Frictare	frikta:re	f-r-e-k-t-A-r-ay
ToWash	lawa:re	l-ah-w-A-r-ay
ToWipe	tergere	t-ay-r-g-ay-r-ay
ToWipe-Extergere	ekstergere	ay-k-s-t-ay-r-g-ay-r-ay
ToWipe-Exsucare	eksu:ka:re	ay-k-s-U-k-A-r-ay
ToWipe-Limpidare	limpida:re	l-e-m-p-e-d-A-r-ay
ToPull	tira:re	t-e-r-A-r-ay
ToPull-Pulsare	pulsa:re	p-u-l-s-A-r-ay
ToPull-Trahere	trahere	t-r-ah-h-ay-r-ay
ToPush	impingere	e-m-p-e-n-j-ay-r-ay
ToThrow	jakta:re	jg-ah-k-t-A-r-ay



## Appendix 4 - Word Lists by Language

ToThrow-Lanceare	lancea:re	l-ah-n-k-ay-A-r-ay
ToThrow-Eruncare	e:runka:re	ai-r-u-n-k-A-r-ay
ToTie	liga:re	l-e-g-A-r-ay
ToTie-Aptare	apta:re	ah-p-t-A-r-ay
ToSew	ko:nsuere	k-O-n-s-u-ay-r-ay
ToCount	komputa:re	k-oh-m-p-u-t-A-r-ay
ToCount-Enumerare	e:numera:re	ai-n-u-m-ay-r-A-r-ay
ToSay	di:kere	d-E-k-ay-r-ay
ToSay-Exponere	ekspo:nere	ay-k-s-p-O-n-ay-r-ay
ToSing-AncestralClass	kanta:re	k-ah-n-t-A-r-ay
ToPlay-Ludere	lu:dere	l-U-d-ay-r-ay
ToPlay-Jiocare	joka:re	jg-oh-k-A-r-ay
ToFloat	flu:ktua:re	f-l-U-k-t-u-A-r-ay
ToFloat-Flutare	fluita:re	f-l-u-e-t-A-r-ay
ToFlow	fluere	f-l-u-ay-r-ay
ToFlow-Colare	ko:la:re	k-O-l-A-r-ay
ToFlow-Excurrere	ekscurrere	ay-k-s-k-u-r-r-ay-r-ay
ToFlow-Currere	kurrere	k-u-r-r-ay-r-ay
ToFreeze	gela:re	g-ay-l-A-r-ay
ToFreeze-Glaciare	glakia:re	g-l-ah-k-e-A-r-ay
ToFreeze-Inglaciare	inglakia:re	e-n-g-l-ah-k-e-A-r-ay
ToSwell	augmenta:re	au_diphthong-g-m-ay-n-t-A-r-ay
ToSwell-Inflare	infla:re	e-n-f-l-A-r-ay
ToSwell-Conflare	konfla:re	k-oh-n-f-l-A-r-ay
ToSwell-Intumescere	intume:skere	e-n-t-u-m-ai-s-k-ay-r-ay
ToSwell-Crescere	kre:ske:re	k-r-ai-s-k-ai-r-ay
ToBurn-Cremare	krema:re	k-r-ay-m-A-r-ay
ToBurn-Flammare	flamma:re	f-l-ah-m-m-A-r-ay
ToBurn-Ardere	arde:re	ah-r-d-ai-r-ay
ToBurn-Flagrare	flagra:re	f-l-ah-g-r-A-r-ay
ToBurn-Incendere	inkendere	e-n-k-ay-n-d-ay-r-ay
ToBurn-AncestralClass8	ustula:re	u-s-t-u-l-A-r-ay
All	omne:s	oh-m-n-ai-s
All-Totus	to:tus	t-O-t-u-s
Many	multus	m-u-l-t-u-s
Many-Tantus	tantus	t-ah-n-t-u-s
Few	paukus	p-au_diphthong-k-u-s
Other	alter	ah-l-t-ay-r
Other-Alius	alius	ah-l-e-u-s
Big	magnus	m-ah-j-n-u-s
Big-Grandem	grandem	j-r-ah-n-d-ay-m
Big-Majjorem	majjo:rem	m-aj_diphthong-jg-O-r-ay-m
Long-Longum	longus	l-oh-n-g-u-s
Long-Largum	largus	l-ah-r-j-u-s
Wide	la:tus	l-A-t-u-s
Wide-Amplum	amplus	ah-m-p-l-u-s
Thick	krassus	k-r-ah-s-s-u-s
Thick-Spissum	spissus	s-p-e-s-s-u-s
Thick-Gurdum	gurdus	j-u-r-d-u-s
Thick-Grossum	grossus	j-r-oh-s-s-u-s
Heavy	grawis	g-r-ah-w-e-s
Heavy-Lurdus	lurdus	l-u-r-d-u-s
Heavy-Pesant	pe:sant	p-ai-s-ah-n-t
Small	pittitus	p-e-t-t-e-t-u-s
Small-Pittinus	'pittinus	p-e-t-t-e-n-u-s
Small-Pitulus	pitulus	p-e-t-u-l-u-s
Short	kurtus	k-u-r-t-u-s

## Appendix 4 - Word Lists by Language

Short-Brevis	brewis	b-r-ay-w-e-s
Narrow	angustus	ah-n-g-u-s-t-u-s
Narrow-Strictus	striktus	s-t-r-e-k-t-u-s
Thin	minu:tus	m-e-n-U-t-u-s
Thin-Delicatus	de:lika:tus	d-ai-l-e-k-A-t-u-s
Thin-Subtilis	subti:lem	s-u-b-t-E-l-ay-m
Warm	kalidum	k-ah-l-e-d-u-m
Cold	fri:gidum	f-r-E-g-e-d-u-m
Full	ple:num	p-l-ai-n-u-m
New	nowum	n-oh-w-u-m
Old	wetum	w-ay-t-u-m
Good	bonum	b-oh-n-u-m
Bad	małum	m-ah-ssha-u-m
Rotten	putridum	p-u-t-r-e-d-u-m
Dirty	sordidus	s-oh-r-d-e-d-u-s
Straight	re:ktum	r-ai-k-t-u-m
Round	rotundum	r-oh-t-u-n-d-u-m
SharpAsAKnife	aku:tum	ah-k-U-t-u-m
DullAsAKnife	hebes	h-ay-b-ay-s
Smooth	sua:wē	s-u-A-w-ehn
Wet	u:midum	U-m-e-d-u-m
Dry	sikkus	s-e-k-k-u-s
Correct	korre:ktum	k-oh-r-r-ai-k-t-u-m
Near	propinq <sup>w</sup> um	p-r-oh-p-e-nya-kw-u-m
Far	longum	ssha-oh-nya-g-u-m
Right-Dextrem	dekstrum	d-ay-k-s-t-r-u-m
Right-Directus	di:re:ktus	d-E-r-ai-k-t-u-s
Left	laewum	ssha-ah-eah-w-u-m
Red	russus	r-u-s-s-u-s
Red-Vermiculus	vermikulus	v-ay-r-m-e-k-u-l-u-s
Red-Rubeus	rubeus	r-u-b-ay-u-s
Green	wiridem	w-e-r-e-d-ay-m
Yellow	galbinus	g-ah-l-b-e-n-u-s
Yellow-Amarellus	amarellus	ah-m-ah-r-ay-l-l-u-s
Yellow-Croceus	krokeus	k-r-oh-k-ay-u-s
White	albus	ah-l-b-u-s
Black	nigrum	n-e-j-r-u-m
One	u:num	U-n-u-m
Two-Duos	duo:s	d-u-O-s
Two-Duae	duaj	d-u-aj_diphthong
Two-Duas	duas	d-u-ah-s
Three	tre:s	t-r-ai-s
Four	k <sup>w</sup> attwor	kw-ah-t-t-w-oh-r
Five	k <sup>w</sup> i:nk <sup>w</sup> e	kw-E-n-kw-ay
Here	ekkumhi:k	ay-k-k-u-m-h-E-k
There	illa:k	e-l-l-A-k
There-Ibi	ibi:	e-b-E
Who-Qui	k <sup>w</sup> is	kw-e-s
Who-Quem	k <sup>w</sup> em	kw-ay-m
What	k <sup>w</sup> id	kw-e-d
Where-Ubi	ubi	u-b-e
Where-Unde	unde	u-n-d-ay
Where-DeUnde	deunde	d-ay-u-n-d-ay
When-Quando	k <sup>w</sup> ando:	kw-ah-n-d-O
How-Quomodo	k <sup>w</sup> o:modo	kw-O-m-oh-d-oh
Not	no:n	n-O-n
Not-Nec	nek	n-ay-k

## Appendix 4 - Word Lists by Language

At	ad	ah-d
In-In	in	e-n
In-Deintus	deintus	d-ay-e-n-t-u-s
With-Cum	kum	k-u-m
With-Abhoc	abhoc	ah-b-h-oh-tya
And-Et	et	ay-t
And-Si	si:k	s-E-k
If	si:	s-E
Because-Quod	k <sup>w</sup> od	kw-oh-d
Because-Proquid	prok <sup>w</sup> id	p-r-oh-kw-e-d

## French

Cognate	IPA	Sounds
I	ʒə	gzah-aah
We	nu	n-u
YouPlural	vu	v-u
This	sə.sɪ	s-aah-s-e
That	sə.la	s-aah-l-ah
YouSingular	ty	t-eeh
Woman	fam	f-ah-m
Woman-Domina	dam	d-ah-m
ManHumanBeing	ɔm	euH-m
ManHumanBeing-Homo	õ	oon
Child	ãfã	NasalA-f-NasalA
Wife	epuz	ay-p-u-zz
Husband	maʁi	m-ah-rr-e
Husband-Sponsus	epu	ay-p-u
Mother	meʁ	m-ay-rr
Father	peʁ	p-ay-rr
Animal	omaj	oh-m-ah-jg
Fish-Pescion	pwasõ	p-w-ah-s-on
Bird-Avicellum	wazo	w-ah-zz-oh
Dog	ʃjẽ	shh-jg-ehnn
Louse	pu	p-u
Snake	seʁpã	s-ay-rr-p-NasalA
Worm	veʁ	v-ay-rr
Tree	akbɛ	ah-rr-b-rr
Stick	pal	p-ah-l
Fruit	fʁɥi	f-rr-eu-e
Seed-Sementis	səmãs	s-aah-m-NasalA-s
Seed-Granum	gʁɛn	g-rr-eh-n
Leaf	fœj	f-OpenMidNearFrontRounded-jg
Root-Radix	ʁadi	rr-ah-d-e
Root-Radicina	ʁasin	rr-ah-s-e-n
BarkOfATree-Skortea	ekɔʁs	ay-k-oh-rr-s
Flower	flœʁ	f-l-OpenMidNearFrontRounded-rr
Grass	ɛʁb	eh-rr-b
Grass-Gramen	gʁamɛn	g-rr-ah-m-eh-n
Rope	kɔʁd	k-oh-rr-d
Skin	kwan	k-w-ah-n
Skin-Pellis	pɔ	p-oh
Meat	vjad	v-jg-NasalA-d
Blood	sã	s-NasalA
Bone	os	oh-s
FatNoun	gʁɛs	g-rr-ay-s

## Appendix 4 - Word Lists by Language

Egg	œf	OpenMidNearFrontRounded-f
Horn	kɔɾn	k-oh-rr-n
Tail	kø	k-uu
Feather	plym	p-l-eeh-m
Feather-Penna	pen	p-eh-n
Hair	pwal	p-w-ah-l
Hair-Capillus	ʃəvø	shh-aah-v-uu
Head	ʃəvɛ	shh-aah-v-eh
Head-Testa	tɛt	t-eh-t
Ear	oʁej	oh-rr-ej_diphthong
Eye	œj	OpenMidNearFrontRounded-jg
Nose	ne	n-ay
Mouth	buʃ	b-u-shh
Mouth-Gula	gœl	g-OpenMidNearFrontRounded-l
Tooth	dã	d-NasalA
Fingernail	õgl	on-g-l
Foot	pʃe	p-jg-ay
Leg	ʒãb	gzah-NasalA-b
Knee	ʒənu	gzah-aah-n-u
Hand	mɛ	m-ehn
Wing	el	ay-l
Belly	vãtɕ	v-NasalA-t-rr
Guts	ãtɕaj	NasalA-t-rr-a-jg
Neck	ku	k-u
Back	do	d-oh
Back-Spatula	epol	ay-p-oh-l
Breast	sɛ	s-ehn
Breast-Pectus	pi	p-e
Heart	kœɕ	k-OpenMidNearFrontRounded-rr
Heart-Anima	am	a-m
Liver	fwa	f-w-a
Sun-Solculus	solej	s-euh-l-eh_diphthong
Moon	lyn	l-eeh-n
Star	etwal	ay-t-w-ah-l
Water	o	oh
Rain	plɔi	p-l-eu-e
River-Rivus	ɕy	rr-eeh
River-Riparia	ɕivjɕɕ	rr-e-v-jg-ay-rr
Lake	lak	l-ah-k
Sea	mɛɕ	m-eh-rr
Salt	sɛl	s-eh-l
Stone-Petra	pjɕɕ	p-jg-ay-rr
Sand-Sabulum	sabl	s-ah-b-l
Dust	pudɕ	p-u-d-rr
Earth	tɛɕ	t-ay-rr
Cloud	ny	n-eeh
Fog-Nebula	njɔly	n-jg-euh-l-eeh
Fog-Tenebras	tenebɕ	t-ay-n-eh-b-rr
Fog-Fumata	fyme	f-eeh-m-ay
Sky	sjɛl	s-jg-eh-l
Wind	vã	v-NasalA
Snow	nɛʒ	n-eh-gzah
Ice	ʒɛl	gzah-eh-l
Fire-Focus	fø	f-uu
Ash	sãdɕ	s-NasalA-d-rr
Road	vwa	v-w-ah
Road-Camminus	ʃəmɛ	shh-aah-m-ehnn

## Appendix 4 - Word Lists by Language

Mountain	mō	m-oon
Mountain-Montanea	mōtaŋ	m-on-t-ah-VdPalatalNasal
Night	nūi	n-eu-e
Day-Diurnus	zux	gzah-u-rr
Day-Diurnata	zuxne	gzah-u-rr-n-ay
Year	a	NasalA
Name-Nomen	nō	n-oon
Tongue	lāg	l-NasalA-g
ToDrink	bwax	b-w-a-rr
ToEat-Manducare	māze	m-NasalA-gzah-ay
ToBite	moxdk	m-oh-rr-d-rr
ToSuck	syse	s-eeh-s-ay
ToSpit	kōspye	k-oon-s-p-eeh-ay
ToVomit	vomiŋ	v-oh-m-e-rr
ToBlow	sufle	s-u-f-l-ay
ToBreathe	kespiŋe	rr-ay-s-p-e-rr-ay
ToLaugh	xiŋ	rr-e-rr
ToSee	vwaŋ	v-w-ah-rr
ToHear	ātadŋ	NasalA-t-NasalA-d-rr
ToKnow-Sapere	savwaŋ	s-ah-v-w-ah-rr
ToKnow-Cognoscere	kōnetŋ	k-euh-n-eh-t-rr
ToThink	kūide	k-eu-e-d-ay
ToThink-Pensare	pāse	p-NasalA-s-ay
ToSmell-Sentire	sātix	s-NasalA-t-e-rr
ToSmell-Fragrare	flēŋe	f-l-eh-rr-ay
ToFear-Tremere	kūēdk	k-rr-ehn-d-rr
ToSleep	dōxmiŋ	d-euh-rr-m-e-rr
ToLive	vivŋ	v-e-v-rr
ToDie	muxix	m-u-rr-e-rr
ToKill	nwaje	n-w-aj_diphthong-ay
ToKill-Tutari	tje	t-eu-ay
ToKill-Mactare	mate	m-ah-t-ay
ToKill-Occidere	ōksiŋ	euh-k-s-e-rr
ToFight-Battuere	batŋ	b-ah-t-rr
ToHunt-Captiare	ŋase	shh-ah-s-ay
ToHit	puse	p-u-s-ay
ToCut	sje	s-jg-ay
ToCut-Excutare	ekuxte	ay-k-u-rr-t-ay
ToCut-Taliare	taje	t-a-jg-ay
ToSplit-Scindere	sēde	s-ehnn-d-ay
ToSplit-Findere	fādŋ	f-NasalA-d-rr
ToSplit-Partire	paktix	p-ah-rr-t-e-rr
ToSplit-Separare	səvŋe	s-aah-v-rr-ay
ToStab	pwēdk	p-w-ehnn-d-rr
ToStab-Iugulare	zygyle	gzah-eeh-g-eeh-l-ay
ToScratch-Rasare	kaze	rr-a-zz-ay
ToDig	fwix	f-w-e-rr
ToSwim-Navigare	naze	n-ah-gzah-ay
ToFly	vole	v-oh-l-ay
ToWalk	ŋəmine	shh-aah-m-e-n-ay
ToWalk-Marcher	maŋŋe	m-ah-rr-shh-ay
ToCome	vəniŋ	v-aah-n-e-rr
ToLieAsInABed	etādŋ	ay-t-NasalA-d-rr
ToLieAsInABed-lacere	zeziŋ	gzah-ay-zz-e-rr
ToSit	swax	s-w-ah-rr
ToStand	etŋ	eh-t-rr
ToStand-Levare	love	l-aah-v-ay

## Appendix 4 - Word Lists by Language

ToStand-Altiare	ose	oh-s-ay
ToTurnIntransitive	tũrne	t-u-rr-n-ay
ToTurnIntransitive-Gyrate	zĩke	gzah-e-rr-ay
ToTurnIntransitive-AncestralClass3	vĩke	v-e-rr-ay
ToTurnIntransitive-Torque	tũrdũ	t-euh-rr-d-rr
ToFall	fwak	shh-w-ah-rr
ToFall-Tumbare	tũbe	t-on-b-ay
ToGive-Donare	dũne	d-euh-n-ay
ToHold	tũnik	t-aah-n-e-rr
ToSqueeze	epũẽdũ	ay-p-rr-ehnn-d-rr
ToSqueeze-Serare	seke	s-ay-rr-ay
ToSqueeze-Stringere	etũẽdũ	ay-t-rr-ehnn-d-rr
ToRub	fũeje	f-rr-eh_diphthong-ay
ToRub-Frictare	fũote	f-rr-oh-t-ay
ToWash	lave	l-ah-v-ay
ToWipe-Exsucare	esũije	ay-s-eu-e-jg-ay
ToPull	tũke	t-e-rr-ay
ToPull-Pulsare	puse	p-u-s-ay
ToPull-Trahare	tũekũ	t-rr-eh-rr
ToThrow	zũte	gzah-aah-t-ay
ToThrow-Lanceare	lũse	l-NasalA-s-ay
ToTie	lie	l-e-ay
ToSew	kudũ	k-u-d-rr
ToCount	kũte	k-on-t-ay
ToCount-Enumerare	enumekũ	ay-n-u-m-ay-rr-ay
ToSay	diũ	d-e-rr
ToSing-AncestralClass	ũate	shh-NasalA-t-ay
ToPlay-Jiocare	zwe	gzah-w-ay
ToFloat	flyktũe	f-l-eeh-k-t-eu-ay
ToFlow	flye	f-l-eeh-ay
ToFlow-Colare	kule	k-u-l-ay
ToFlow-Currere	kũkũ	k-u-rr-e-rr
ToFreeze	zũle	gzah-aah-l-ay
ToFreeze-Glaciare	glase	g-l-ah-s-ay
ToSwell	ogmũate	oh-g-m-NasalA-t-ay
ToSwell-Inflare	ũfle	NasalA-f-l-ay
ToSwell-Conflare	gũfle	g-on-f-l-ay
ToSwell-Crescere	kũwatũ	k-rr-w-ah-t-rr
ToBurn-Brojan	bũyle	b-rr-eeh-l-ay
ToBurn-Cremare	kũame	k-rr-ah-m-ay
ToBurn-Flammare	flũbe	f-l-NasalA-b-ay
ToBurn-Ardere	akũ	ah-rr-d-rr
ToBurn-Flagrare	flagũe	f-l-ah-g-rr-ay
ToBurn-Incendere	ẽsũdjẽ	ehnn-s-NasalA-d-jg-ay
All-Totus	tu	t-u
Many	mu	m-u
Some	okũ	oh-k-uuh
Few	pũ	p-uu
Other	otũ	oh-t-rr
Big-Grandem	gũũ	g-rr-NasalA
Long-Longum	lũ	l-oon
Long-Largum	lũzũ	l-ah-rr-gzah
Wide	le	l-ay
Wide-Amplum	ũpl	NasalA-p-l
Thick	gũa	g-rr-a
Thick-Spissum	epe	ay-p-ay
Thick-Grossum	gũo	g-rr-oh

## Appendix 4 - Word Lists by Language

Heavy	gɤijɛf	g-rr-e-jg-eh-f
Heavy-Lurdus	luɤ	l-u-rr
Heavy-Pesant	pəzã	p-aah-zz-NasalA
Small	pəti	p-aah-t-e
Short	kuɤ	k-u-rr
Short-Brevis	bɤɛf	b-rr-eh-f
Narrow-Strictus	etɤwa	ay-t-rr-w-ah
Thin	məny	m-aah-n-eeh
Thin-Delicatus	du:ʒe:	d-U-gzah-ai
Warm	ʃo	shh-oh
Cold	fɤwa	f-rr-w-ah
Full	plɛ	p-l-ehn
New	nuvo	n-u-v-oh
Old	vjə	v-jg-uu
Good	bō	b-on
Bad	move	m-oh-v-ay
Rotten	puri	p-u-r-e
Dirty	sal	s-ah-l
Straight	dɤwa	d-rr-w-ah
Round	ɤō	rr-on
SharpAsAKnife	tɤãʃã	t-rr-NasalA-shh-NasalA
DullAsAKnife	emuse	ay-m-u-s-ay
Smooth	lis	l-e-s
Wet	muje	m-u-jg-ay
Dry	sek	s-eh-k
Near	pɤe	p-rr-ay
Far	lwɛ	l-w-ehn
Right-Directus	dɤwat	d-rr-w-ah-t
Left	goʃ	g-oh-shh
Red	ɤu	rr-u
Red-Vermiculus	vɛɤmɛj	v-eh-rr-m-eh_diphthong
Red-Rubeus	ɤuʒ	rr-u-gzah
Green	vɛɤ	v-ay-rr
Yellow	ʒon	gzah-oh-n
Black	nwaɤ	n-w-ah-rr
One	œ	uuh
Two-Duos	dø	d-uu
Three	tɤwa	t-rr-w-a
Four	katɤ	k-ah-t-rr
Five	sɛk	s-ehn-k
Here	isi	e-s-e
There	la	l-ah
Who-Qui	ki	k-e
What	kwa	k-w-ah
Where-Ubi	u	u
Where-DeUnde	dō	d-oon
When-Quando	kã	k-NasalA
How-Quomodo	kɔmã	k-euh-m-NasalA
Not	nō	n-oon
Not-Nec	ni	n-e
At	a	ah
In-Deintus	dã	d-NasalA
With-Abhoc	avek	ah-v-ay-k
And-Et	e	ay
If	si	s-e
Because-Quod	kə	k-aah
Because-Proquid	pɤɤskə	p-ah-rr-s-k-aah

## Appendix 4 - Word Lists by Language

### Spanish

Cognate	IPA	Sounds
I	jo	VdPalatalFricative-oh
We	nos	n-oh-s
YouPlural	bos	b-oh-s
They	eʎos	ay-yuh-oh-s
This	este	ay-s-t-ay
That	ese	ay-s-ay
YouSingular	tu	t-u
YouSingular-VostramMercedem	usted	u-s-t-ay-d
He	el	ay-l
Woman	embra	ay-m-b-er-ah
Woman-Mulier	muxer	m-u-xha-ay-er
Woman-Domina	doña	d-oh-VdPalatalNasal-ah
ManHumanBeing	ombre	oh-m-b-er-ay
Child	infante	e-n-f-ah-n-t-ay
Child-Ninnus	nijo	n-e-VdPalatalNasal-oh
Wife	esposa	ay-s-p-oh-s-ah
Wife-Mulier	muxer	m-u-xha-ay-er
Husband	mariño	m-ah-er-e-dd-oh
Husband-Sponsus	esposo	ay-s-p-oh-s-oh
Mother	mañre	m-ah-dd-er-ay
Father	pañre	p-ah-dd-er-ay
Father-Tata	tata	t-ah-t-ah
Animal	alimajna	ah-l-e-m-ah-VdPalatalNasal-ah
Fish-Piskem	peθ	p-ay-th
Bird-Avem	abe	ah-b-ay
Bird-Passerem	paxaro	p-ah-xha-ah-er-oh
Dog	kan	k-ah-n
Louse	pjoxo	p-jg-oh-xha-oh
Snake	serpjente	s-ay-er-p-jg-ay-n-t-ay
Snake-Serpens	sjerpe	s-jg-ay-er-p-ay
Worm	berme	b-ay-er-m-ay
Tree	arbol	ah-er-bb-oh-l
Forest	selba	s-ay-l-b-ah
Stick	palo	p-ah-l-oh
Fruit	fruto	f-er-u-t-oh
Seed-Sementis	simjente	s-e-m-jg-ay-n-t-ay
Seed-Granum	grano	g-er-ah-n-oh
Leaf	oxa	oh-xha-ah
Root	raiθ	r-ah-e-th
BarkOfATree-Corticea	korteθa	k-oh-er-t-ay-th-ah
Flower	flor	f-l-oh-er
Grass	jerba	VdPalatalFricative-ay-er-b-ah
Grass-Gramen	grama	j-er-ah-m-ah
Rope	kwerða	k-w-ay-er-dd-ah
Skin-Pellis	piel	p-jg-ay-l
Meat	karne	k-ah-er-n-ay
Blood	sangre	s-ah-nya-g-er-ay
Bone	weso	w-ay-s-oh
FatNoun	grasa	g-er-ah-s-ah
Egg	webo	w-ay-b-oh
Horn	kwerno	k-w-ay-er-n-oh
Tail	kola	k-oh-l-ah
Feather	pluma	p-l-u-m-ah



## Appendix 4 - Word Lists by Language

Feather-Penna	pepa	p-ay-VdPalatalNasal-ah
Hair	pelo	p-ay-l-oh
Hair-Capillus	kabejo	k-ah-b-ay-VdPalatalFricative-oh
Head	kaβeθa	k-ah-bb-ay-th-ah
Ear	orexa	oh-er-ay-xha-ah
Eye	oxo	oh-xha-oh
Nose	naso	n-ah-s-oh
Nose-Nares	nariθ	n-ah-er-e-th
Mouth	boka	b-oh-k-ah
Mouth-Gula	gola	j-oh-l-ah
Tooth	djente	d-jg-ay-n-t-ay
Fingernail	upa	u-VdPalatalNasal-ah
Foot	pje	p-jg-ay
Leg	pjerma	p-jg-ay-er-n-ah
Knee	roðiʎa	r-oh-dd-e-yuh-ah
Hand	mano	m-ah-n-oh
Wing	ala	ah-l-ah
Belly	bariya	b-ah-r-e-juh-ah
Guts	tripas	t-er-e-p-ah-s
Neck	kwejo	k-w-ay-VdPalatalFricative-oh
Back-Spatula	espalda	ay-s-p-ah-l-d-ah
Breast	seno	s-ay-n-oh
Breast-Pectus	peʎfo	p-ay-ts-oh
Heart-Anima	alma	ah-l-m-ah
Liver	iyaðo	e-juh-ah-dd-oh
Sun	sol	s-oh-l
Moon	luna	l-u-n-ah
Star	estreja	ay-s-t-er-ay-VdPalatalFricative-ah
Water	aywa	ah-juh-w-ah
Rain	jubja	VdPalatalFricative-u-b-jg-ah
River-Rivus	rio	r-e-oh
Lake	lago	l-ah-j-oh
Sea	mar	m-ah-er
Salt	sal	s-ah-l
Stone-Petra	pjeðra	p-jg-ay-dd-er-ah
Stone-Lapidem	laude	l-ah-u-d-ay
Sand	arena	ah-er-ay-n-ah
Dust-Pulwus	polbo	p-oh-l-b-oh
Earth	tjera	t-jg-ay-r-ah
Cloud	nube	n-u-b-ay
Cloud-Secondary	nublo	n-u-b-l-oh
Fog	kalina	k-ah-l-e-n-ah
Fog-Nebula	njebla	n-jg-ay-b-l-ah
Fog-Tenebras	tinjeblas	t-e-n-jg-ay-b-l-ah-s
Fog-Fumata	fumata	f-u-m-ah-t-ah
Sky	θjelo	th-jg-ay-l-oh
Wind	bjento	b-jg-ay-n-t-oh
Snow	njebe	n-jg-ay-b-ay
Ice	jelo	VdPalatalFricative-ay-l-oh
Smoke	umo	u-m-oh
Fire-Focus	fwego	f-w-ay-g-oh
Ash-Cinisia	θeniθa	th-ay-n-e-th-ah
Road	bia	b-e-ah
Road-Strata	estrada	ay-s-t-er-ah-d-ah
Road-Camminus	kamino	k-ah-m-e-n-oh
Mountain	monte	m-oh-n-t-ay
Mountain-Montanea	montapa	m-oh-n-t-ah-VdPalatalNasal-ah

## Appendix 4 - Word Lists by Language

Night	noŋe	n-oh-ts-ay
Day	dia	d-e-ah
Day-Diurnus	djurno	d-jg-u-er-n-oh
Day-Diurnata	xornada	xha-oh-er-n-ah-d-ah
Year	apo	ah-VdPalatalNasal-oh
Name-Nominem	nombre	n-oh-m-b-er-ay
ManMale	ombre	oh-m-b-er-ay
ManHuman	ombre	oh-m-b-er-ay
Tongue	leŋgwa	l-ay-nya-g-w-ah
ToDrink	beber	b-ay-b-ay-er
ToEat	komer	k-oh-m-ay-er
ToEat-Manducare	mandukar	m-ah-n-d-u-k-ah-er
ToBite	morðer	m-oh-er-dd-ay-er
ToBite-Morsicare	moskar	m-oh-s-k-ah-er
ToSpit-Exconspuere	eskupir	ay-s-k-u-p-e-er
ToSpit-Sputare	esputar	ay-s-p-u-t-ah-er
ToVomit	bomitar	b-oh-m-e-t-ah-er
ToBlow	soplar	s-oh-p-l-ah-er
ToBreathe	respirar	r-ay-s-p-e-er-ah-er
ToLaugh	reir	r-ay-e-er
ToSee	ber	b-ay-er
ToHear	oir	oh-e-er
ToKnow-Sapere	saber	s-ah-b-ay-er
ToKnow-Cognoscere	konoθer	k-oh-n-oh-th-ay-er
ToThink	kwidar	k-w-e-d-ah-er
ToThink-Pensare	pensar	p-ay-n-s-ah-er
ToSmell-Sentire	sentir	s-ay-n-t-e-er
ToSmell-Olere	oler	oh-l-ay-er
ToFear	temer	t-ay-m-ay-er
ToFear-Tremere	tremar	t-er-ay-m-ay-er
ToSleep	dormir	d-oh-er-m-e-er
ToLive	bibir	b-e-b-e-er
ToDie	morir	m-oh-er-e-er
ToKill-Adnecare	anegar	ah-n-ay-g-ah-er
ToKill-Mactare	matar	m-ah-t-ah-er
ToFight	pupar	p-u-VdPalatalNasal-ah-er
ToFight-Battuere	batir	b-ah-t-e-er
ToHunt-Captiare	kaθar	k-ah-th-ah-er
ToHit	puxar	p-u-xha-ah-er
ToCut	segar	s-ay-j-ah-er
ToCut-Curtare	kortar	k-oh-er-t-ah-er
ToCut-Taliare	taxar	t-ah-xha-ah-er
ToSplit	dibidir	d-e-b-e-d-e-er
ToSplit-Findere	ender	ay-n-d-ay-er
ToSplit-Partire	partir	p-ah-er-t-e-er
ToSplit-Separare	separar	s-ay-p-ah-er-ah-er
ToScratch	raer	r-ah-ay-er
ToScratch-Rasare	rasar	r-ah-s-ah-er
ToScratch-Rasicare	raskar	r-ah-s-k-ah-er
ToDig-Cavare	kabar	k-ah-b-ah-er
ToDig-Excavare	eskabar	ay-s-k-ah-b-ah-er
ToSwim	nadar	n-ah-d-ah-er
ToSwim-Navigare	nabegar	n-ah-b-ay-g-ah-er
ToFly	bolar	b-oh-l-ah-er
ToWalk	kaminar	k-ah-m-e-n-ah-er
ToWalk-Ambitare	andar	ah-n-d-ah-er
ToCome	benir	b-ay-n-e-er

## Appendix 4 - Word Lists by Language

ToLieAsInABed	ekstender	ay-k-s-t-ay-n-d-ay-er
ToLieAsInABed-lacere	jaθer	VdPalatalFricative-ah-th-ay-er
ToSit	ser	s-ay-er
ToSit-Sedentare	sentar	s-ay-n-t-ah-er
ToStand	estar	ay-s-t-ah-er
ToStand-Levare	jebar	VdPalatalFricative-ay-b-ah-er
ToStand-Altiare	alθar	ah-l-th-ah-er
ToTurnIntransitive	tornar	t-oh-er-n-ah-er
ToTurnIntransitive-Gyrate	xirar	xha-e-er-ah-er
ToTurnIntransitive-AncestralClass3	birar	b-e-er-ah-er
ToTurnIntransitive-Torque	torθer	t-oh-er-th-ay-er
ToFall	kaer	k-ah-ay-er
ToFall-Tumbare	tumbar	t-u-m-b-ah-er
ToGive	dar	d-ah-er
ToGive-Donare	donar	d-oh-n-ah-er
ToHold	tener	t-ay-n-ay-er
ToHold-Segurar	segurar	s-ay-g-u-er-ah-er
ToSqueeze	ekspremir	ay-k-s-p-er-ay-m-e-er
ToSqueeze-Serrere	serar	s-ay-r-ah-er
ToSqueeze-Serare	θerar	th-ay-r-ah-er
ToSqueeze-Appetore	apretar	ah-p-er-ay-t-ah-er
ToSqueeze-Stringere	estrepir	ay-s-t-er-ay-VdPalatalNasal-e-er
ToRub	fregar	f-er-ay-g-ah-er
ToRub-Frictare	frotar	f-er-oh-t-ah-er
ToRub-Frictiare	frisar	f-r-e-s-ah-er
ToWash	laβar	l-ah-bb-ah-er
ToWipe-Extergere	estarsir	ay-s-t-ah-er-s-e-er
ToWipe-Exsucare	enxugar	ay-n-xha-u-g-ah-er
ToWipe-Limpidare	limpiar	l-e-m-p-jg-ah-er
ToPull	tirar	t-e-er-ah-er
ToPull-Pulsare	puxar	p-u-xha-ah-er
ToThrow	eθar	ay-ts-ah-er
ToThrow-Lanceare	lanθar	l-ah-n-th-ah-er
ToThrow-Eruncare	arankar	ah-r-ah-n-k-ah-er
ToTie	legar	l-ay-g-ah-er
ToTie-Aptare	atar	ah-t-ah-er
ToSew	koser	k-oh-s-ay-er
ToCount	kontar	k-oh-n-t-ah-er
ToCount-Enumerare	enumerar	ay-n-u-m-ay-er-ah-er
ToSay	deθir	d-ay-th-e-er
ToSing-AncestralClass	kantar	k-ah-n-t-ah-er
ToPlay-Ludere	ludir	l-u-d-e-er
ToPlay-Jiocare	xugar	xha-u-j-ah-er
ToFloat	flugtwar	f-l-u-g-t-w-ah-er
ToFlow	fluir	f-l-u-e-er
ToFlow-Colare	kolar	k-oh-l-ah-er
ToFlow-Excurrere	eskurir	ay-s-k-u-r-e-er
ToFlow-Currere	korer	k-oh-r-ay-er
ToFreeze	elar	ay-l-ah-er
ToSwell	aumentar	au_diphthong-m-ay-n-t-ah-er
ToSwell-Inflare	inθar	e-n-ts-ah-er
ToSwell-Intumescere	entumeθer	ay-n-t-u-m-ay-th-ay-er
ToSwell-Crescere	kreθer	k-er-ay-th-ay-er
ToBurn-Cremare	kemar	k-ay-m-ah-er
ToBurn-Flammare	flamear	f-l-ah-m-ay-ah-er
ToBurn-Ardere	arder	ah-er-d-ay-er
ToBurn-Flagrare	flagrar	f-l-ah-g-er-ah-er

## Appendix 4 - Word Lists by Language

ToBurn-Incendere	enθender	ay-n-th-ay-n-d-ay-er
All-Totus	todo	t-oh-d-oh
Many	muŋfo	m-u-ts-oh
Many-Tantus	tanto	t-ah-n-t-oh
Some	alguno	ah-l-j-u-n-oh
Few	poko	p-oh-k-oh
Other	otro	oh-t-er-oh
Big	mapo	m-ah-VdPalatalNasal-oh
Big-Grandem	grande	g-er-ah-n-d-ay
Long-Longum	longo	l-oh-n-j-oh
Long-Largum	laryo	l-ah-er-juh-oh
Wide	lato	l-ah-t-oh
Wide-Amplum	anŋfo	ah-n-ts-oh
Thick	graso	g-er-ah-s-oh
Thick-Spissum	espeso	ay-s-p-ay-s-oh
Thick-Gurdum	gordo	g-oh-er-d-oh
Heavy	grabe	g-er-ah-b-ay
Heavy-Lurdus	lerdo	l-ay-er-d-oh
Heavy-Pesant	pesaðo	p-ay-s-ah-dd-oh
Small-Pittinus	pekeŋo	p-ay-k-ay-VdPalatalNasal-oh
Short	korto	k-oh-er-t-oh
Short-Brevis	brebe	b-er-ay-b-ay
Narrow	angosto	ah-n-g-oh-s-t-oh
Narrow-Strictus	estreŋfo	ay-s-t-er-ay-ts-oh
Thin	menudo	m-ay-n-u-d-oh
Thin-Delicatus	deŋyaðo	d-ay-l-juh-ah-dd-oh
Thin-Subtilis	sutil	s-u-t-e-l
Warm	kaliðo	k-ah-l-e-dd-oh
Cold	frio	f-er-e-oh
Full	leno	yuh-ay-n-oh
New	nweβo	n-w-ay-bb-oh
Old	bjexo	b-jg-ay-xha-oh
Good	bweno	b-w-ay-n-oh
Bad	malo	m-ah-l-oh
Rotten	poðriðo	p-oh-dd-er-e-dd-oh
Dirty	suθjo	s-u-th-jg-oh
Straight	rekto	r-ay-k-t-oh
Round	reðondo	r-ay-dd-oh-n-d-oh
SharpAsAKnife	ayuðo	ah-juh-u-dd-oh
DullAsAKnife	sinfilo	s-e-n-f-e-l-oh
Smooth	liso	l-e-s-oh
Wet	moxaðo	m-oh-xha-ah-dd-oh
Dry	seko	s-ay-k-oh
Near	θerka	th-ay-er-k-ah
Far	lexos	l-ay-xha-oh-s
Right-Dextrem	djestro	d-jg-ay-s-t-er-oh
Right-Directus	dereŋfo	d-ay-er-ay-ts-oh
Left	iθkjerða	e-th-k-jg-ay-er-dd-ah
Red	roxo	r-oh-xha-oh
Red-Vermiculus	bermexo	b-ay-er-m-ay-xha-oh
Red-Rubeus	rubjo	r-u-b-jg-oh
Green	berde	b-ay-er-d-ay
Yellow-Amarellus	amarijo	ah-m-ah-er-e-VdPalatalFricative-oh
White	albo	ah-l-b-oh
Black	neyro	n-ay-juh-er-oh
Black-Pretto	prjeto	p-er-jg-ay-t-oh
One	uno	u-n-oh

## Appendix 4 - Word Lists by Language

Two-Duos	dos	d-oh-s
Three	tres	t-er-ay-s
Four	kwatro	k-w-ah-t-er-oh
Five	θinko	th-e-n-k-oh
Here	aki	ah-k-e
There	aja	ah-VdPalatalFricative-ah
There-Adlbi	ai	ah-e
Who-Quem	kjen	k-jg-ay-n
What	ke	k-ay
Where-Unde	onde	oh-n-d-ay
Where-DeUnde	donde	d-oh-n-d-ay
When-Quando	kwando	k-w-ah-n-d-oh
How-Quomodo	komo	k-oh-m-oh
Not	no	n-oh
Not-Nec	ni	n-e
At	a	ah
In-In	en	ay-n
With-Cum	kon	k-oh-n
And-Et	i	e
If	si	s-e
Because-Quod	ke	k-ay
Because-Proquid	porke	p-oh-er-k-ay

## Italian

Cognate	IPA	Sounds
I	io	e-oh
We	no:i	n-O-e
YouPlural	vo:i	v-O-e
They	lo:ro	l-O-r-oh
This	kwesto	k-w-ay-s-t-oh
That	kwello	k-w-ay-l-l-oh
YouSingular	tu	t-u
He	lu:i	l-U-e
Woman	femmina	f-ay-m-m-e-n-ah
Woman-Mulier	moʎʎe	m-oh-yuh-yuh-ay
Woman-Domina	donna	d-euh-n-n-ah
ManHumanBeing-Homo	womo	w-euh-m-oh
Child	fante	f-ah-n-t-ay
Child-Ninnus	nino	n-e-n-oh
Wife	spoza	s-p-euh-zz-ah
Wife-Mulier	moʎʎe	m-oh-yuh-yuh-ay
Husband	marito	m-ah-r-e-t-oh
Husband-Sponsus	spoza	s-p-euh-zz-oh
Husband-Socius	soʎfo	s-euh-ts-oh
Mother	ma:dre	m-A-d-r-ay
Father	pa:dre	p-A-d-r-ay
Father-Tata	tata	t-ah-t-ah
Animal-Bestia	biʎʎa	b-e-shh-shh-ah
Fish-Piskem	peʎʎe	p-ay-shh-shh-ay
Bird-Avicellum	utʎello	u-t-ts-eh-l-l-oh
Bird-Passerem	passero	p-ah-s-s-ay-r-oh
Dog	kane	k-ah-n-ay
Louse	pidokkjo	p-e-d-euh-k-k-jg-oh
Snake	serpente	s-ay-r-p-ay-n-t-ay
Snake-Serpens	serpe	s-eh-r-p-ay

## Appendix 4 - Word Lists by Language

Worm	verme	v-ay-r-m-ay
Tree	albero	ah-l-b-ay-er-oh
Forest	selva	s-ay-l-v-ah
Stick	palo	p-ah-l-oh
Fruit	frutto	f-r-u-t-t-oh
Seed	seme	s-ay-m-ay
Seed-Sementis	semente	s-ay-m-ay-n-t-ay
Seed-Grandum	grano	g-r-ah-n-oh
Leaf	ῑῑῑῑῑ	f-euh-yuh-yuh-ah
Leaf-Frondea	frondza	f-r-oh-n-VdPalatoAlveolarAffricate-ah
Root-Radix	radi:ῑῑ	r-ah-d-E-ts-ay
BarkOfATree	kortiῑῑ	k-oh-r-t-e-ts-ay
BarkOfATree-Corticea	kortetῑῑ	k-oh-r-t-ay-t-ts-ah
BarkOfATree-Skortea	skortsa	s-k-euh-r-VIAAlveolarSibilantAffricate-ah
Flower	fjo:re	f-jg-O-er-ay
Grass	erba	eh-r-b-ah
Rope	korda	k-oh-r-d-ah
Skin	kotenna	k-oh-t-ay-n-n-ah
Skin-Pellis	pelle	p-ay-l-l-ay
Meat	karne	k-ah-r-n-ay
Blood	sangwe	s-ah-n-g-w-ay
Bone	osso	euh-s-s-oh
FatNoun	grasso	g-r-ah-s-s-oh
Egg	wovo	w-euh-v-oh
Horn	korno	k-euh-r-n-oh
Tail	koda	k-oh-d-ah
Feather	pjuma	p-jg-u-m-ah
Feather-Penna	penna	p-ay-n-n-ah
Hair	pelo	p-ay-l-oh
Hair-Capillus	kapello	k-ah-p-ay-l-l-oh
Head	kavetῑῑ	k-ah-v-ay-t-t-s-ah
Head-Testa	testa	t-eh-s-t-ah
Ear	orekkja	oh-r-ay-k-k-jg-ah
Eye	okkjo	euh-k-k-jg-oh
Nose	na:so	n-A-s-oh
Nose-Nares	nariῑῑ	n-ah-r-e-ts-ay
Mouth	bokka	b-oh-k-k-ah
Mouth-Gula	gola	j-oh-l-ah
Tooth	dente	d-eh-n-t-ay
Fingernail	ungja	u-nya-g-jg-ah
Foot	pje:de	p-jg-Eh-d-ay
Leg	gamba	g-ah-m-b-ah
Knee	djinok:jo	VdPalatoAlveolarSibilant-e-n-oh-kk-jg-oh
Hand	ma:no	m-A-n-oh
Wing	ala	ah-l-ah
Belly	panῑῑ	p-ah-n-ts-ah
Guts	intesti:no	e-n-t-ay-s-t-E-n-oh
Neck	kollo	k-oh-l-l-oh
Back	dosso	d-euh-s-s-oh
Back-Spatula	spalla	s-p-ah-l-l-ah
Breast	seno	s-ay-n-oh
Breast-Pectus	petto	p-eh-t-t-oh
Heart	kwore	k-w-euh-r-ay
Heart-Anima	alma	ah-l-m-ah
Liver	fegato	f-ay-g-ah-t-oh
Sun	sole	s-oh-l-ay
Moon	luna	l-u-n-ah

## Appendix 4 - Word Lists by Language

Star	stella	s-t-ay-l-l-ah
Water	akkwa	ah-k-k-w-ah
Rain	pjoddʒa	p-jg-oh-d-VdPalatoAlveolarSibilant-ah
River	fjume	f-jg-u-m-ay
River-Rivus	rio	r-e-oh
Lake	lago	l-ah-g-oh
Sea	mare	m-ah-r-ay
Salt	sale	s-ah-l-ay
Stone	sasso	s-ah-s-s-oh
Stone-Petra	pje:tra	p-jg-ai-t-r-ah
Stone-Lapidem	lapide	l-ah-p-e-d-ay
Sand-Sabula	sabbja	s-ah-b-b-jg-ah
Dust	polvere	p-oh-l-v-ay-r-ay
Earth	terra	t-ch-r-r-ah
Cloud	nube	n-u-b-ay
Cloud-Secondary	nuvola	n-u-v-oh-l-ah
Fog	kalidʒine	k-ah-l-e-VdPalatoAlveolarSibilant-e-n-ay
Fog-Nebula	nebbja	n-ay-b-b-jg-ah
Fog-Tenebrae	te:nebre	t-Eh-n-ay-b-r-ay
Fog-Tenebras	te:nebre	t-Eh-n-ay-b-r-ay
Fog-Fumata	fuma:ta	f-u-m-A-t-ah
Sky	fjelo	ts-eh-l-oh
Wind	vento	v-eh-n-t-oh
Snow	neve	n-ay-v-ay
Ice	dʒelo	VdPalatoAlveolarSibilant-eh-l-oh
Smoke	fumo	f-u-m-oh
Fire-Focus	fwoko	f-w-euh-k-oh
Ash	fjenere	ts-ay-n-ay-r-ay
Road	via	v-e-ah
Road-Strata	strada	s-t-r-ah-d-ah
Road-Camminus	kammino	k-ah-m-m-e-n-oh
Mountain	monte	m-oh-n-t-ay
Mountain-Montanea	montappa	m-oh-n-t-ah-VdPalatalNasal-VdPalatalNasal-ah
Night	notte	n-euh-t-t-ay
Day	di	d-e
Day-Diurnus	dʒorno	VdPalatoAlveolarSibilant-oh-r-n-oh
Day-Diurnata	dʒornata	VdPalatoAlveolarSibilant-oh-r-n-ah-t-ah
Year	anno	ah-n-n-oh
Name-Nomen	no:me	n-O-m-ay
ManMale	wo:mo	w-O-m-oh
ManHuman	wo:mo	w-O-m-oh
Tongue	lingwa	l-e-n-g-w-ah
ToDrink	bere	b-ay-er-ay
ToEat-Manducare	mandʒare	m-ah-n-VdPalatoAlveolarSibilant-ah-er-ay
ToBite	mordere	m-euh-r-d-ay-r-ay
ToBite-Morsicare	morsikare	m-oh-r-s-e-k-ah-er-ay
ToSpit-Sputare	sputare	s-p-u-t-ah-er-ay
ToVomit	vomitare	v-oh-m-e-t-ah-er-ay
ToBlow	soffjare	s-oh-f-f-jg-ah-er-ay
ToBreathe	respirare	r-ay-s-p-e-r-ah-er-ay
ToLaugh	ri:dere	r-E-d-ay-er-ay
ToSee	vede:re	v-ay-d-ai-er-ay
ToHear	udi:re	u-d-E-er-ay
ToKnow-Sapere	sapere	s-ah-p-ay-r-ay
ToKnow-Cognoscere	konoʃfere	k-oh-n-oh-shh-shh-ay-r-ay
ToThink	kodʒitare	k-oh-VdPalatoAlveolarSibilant-e-t-ah-r-ay
ToThink-Pensare	pensare	p-ay-n-s-ah-er-ay

## Appendix 4 - Word Lists by Language

ToSmell-Sentire	sentire	s-ay-n-t-e-r-ay
ToSmell-Olere	olire	oh-l-e-r-ay
ToSmell-Odorare	odorare	oh-d-oh-r-ah-r-ay
ToSmell-Fragrare	fragrare	f-r-ah-j-r-ah-r-ay
ToFear	temere	t-ay-m-ay-r-ay
ToFear-Tremere	tremare	t-r-ay-m-ah-r-ay
ToSleep	dormire	d-oh-r-m-e-r-ay
ToLive	vivere	v-e-v-ay-r-ay
ToDie	morire	m-oh-r-e-r-ay
ToKill-Adnecare	annegare	ah-n-n-ay-g-ah-r-ay
ToKill-Occidere	uttfidere	u-t-ts-e-d-ay-er-ay
ToFight	pugnare	p-u-VdPalatalNasal-VdPalatalNasal-ah-r-ay
ToFight-Battuere	battere	b-ah-t-t-ay-r-ay
ToHunt-Captiare	kattfjare	k-ah-t-ts-ah-r-ay
ToHit	pulsare	p-u-l-s-ah-r-ay
ToCut	segare	s-ay-j-ah-r-ay
ToCut-Excurtare	skortare	s-k-oh-r-t-ah-r-ay
ToCut-Taliare	taʎʎa:re	t-ah-yuh-yuh-A-r-ay
ToSplit	dividere	d-e-v-e-d-ay-r-ay
ToSplit-Scindere	ʃindere	shh-e-n-d-ay-r-ay
ToSplit-Findere	fendere	f-eh-n-d-ay-r-ay
ToSplit-Partire	partire	p-ah-r-t-e-r-ay
ToSplit-Separare	separare	s-ay-p-ah-r-ah-r-ay
ToStab	pundzere	p-u-n-VdPalatoAlveolarSibilant-ay-r-ay
ToStab-Iugulare	jugula:re	jg-u-j-u-l-A-r-ay
ToScratch	radere	r-ah-d-ay-r-ay
ToScratch-Rasare	rasare	r-ah-s-ah-r-ay
ToDig-Cavare	kavare	k-ah-v-ah-r-ay
ToDig-Excavare	skavare	s-k-ah-v-ah-r-ay
ToSwim	nwotare	n-w-oh-t-ah-er-ay
ToSwim-Navigare	navigare	n-ah-v-e-g-ah-r-ay
ToFly	volare	v-oh-l-ah-er-ay
ToFly-Exvolare	zvolare	zz-v-oh-l-ah-er-ay
ToWalk	kamminare	k-ah-m-m-e-n-ah-er-ay
ToWalk-Mergere	merdzere	m-eh-r-VdPalatoAlveolarSibilant-ay-r-ay
ToWalk-Ambitare	andare	ah-n-d-ah-r-ay
ToCome	venire	v-ay-n-e-er-ay
ToLieAsInABed	estendere	ay-s-t-eh-n-d-ay-r-ay
ToLieAsInABed-lacere	dʒaʎe:re	VdPalatoAlveolarSibilant-ah-ts-ai-er-ay
ToSit	sedere	s-ay-d-ay-r-ay
ToStand	stare	s-t-ah-r-ay
ToStand-Levare	levare	l-ay-v-ah-r-ay
ToStand-Altiare	altsare	ah-l-VAlveolarSibilantAffricate-ah-r-ay
ToTurnIntransitive	tornare	t-oh-r-n-ah-r-ay
ToTurnIntransitive-Gyrate	dʒirare	VdPalatoAlveolarSibilant-e-r-ah-er-ay
ToTurnIntransitive-AncestralClass3	virare	v-e-r-ah-er-ay
ToTurnIntransitive-Torque	tortfere	t-euh-r-ts-ay-r-ay
ToFall	kadere	k-ah-d-ay-er-ay
ToGive	dare	d-ah-r-ay
ToGive-Donare	donare	d-oh-n-ah-r-ay
ToHold	tenere	t-ay-n-ay-er-ay
ToSqueeze	spremere	s-p-r-eh-m-ay-r-ay
ToSqueeze-Serare	serrare	s-ay-r-r-ah-r-ay
ToSqueeze-Stringere	strindzere	s-t-r-e-n-VdPalatoAlveolarSibilant-ay-r-ay
ToRub	fregare	f-r-ay-j-ah-r-ay
ToRub-Frictare	frettare	f-r-ay-t-t-ah-r-ay
ToWash	lavare	l-ah-v-ah-r-ay



## Appendix 4 - Word Lists by Language

ToWipe	terdzere	t-eh-r-VdPalatoAlveolarSibilant-ay-r-ay
ToWipe-Exsucare	aʃʃugare	ah-shh-shh-u-g-ah-r-ay
ToPull	tirare	t-e-r-ah-r-ay
ToPull-Pulsare	pulsare	p-u-l-s-ah-r-ay
ToPull-Trahere	trarre	t-r-ah-r-r-ay
ToPush	impindzere	e-m-p-e-n-VdPalatoAlveolarSibilant-ay-r-ay
ToThrow	dzettare	VdPalatoAlveolarSibilant-ay-t-t-ah-r-ay
ToThrow-Lanceare	lanʃfare	l-ah-n-ts-ah-r-ay
ToThrow-Eruncare	arronʃfare	ah-r-r-oh-n-ts-ah-r-ay
ToTie	legare	l-ay-g-ah-r-ay
ToSew	kufʃire	k-u-ts-e-r-ay
ToCount	kontare	k-oh-n-t-ah-r-ay
ToCount-Enumerare	enumerare	ay-n-u-m-ay-r-ah-r-ay
ToSay	dire	d-e-r-ay
ToSay-Exponere	sporre	s-p-oh-r-r-ay
ToSing-AncestralClass	kantare	k-ah-n-t-ah-r-ay
ToPlay-Jiocare	dʒokare	VdPalatoAlveolarSibilant-oh-k-ah-r-ay
ToFloat	fluttuare	f-l-u-t-t-u-ah-r-ay
ToFloat-Fluitare	fluitare	f-l-u-e-t-ah-r-ay
ToFlow	fluire	f-l-u-e-r-ay
ToFlow-Colare	kolare	k-oh-l-ah-r-ay
ToFlow-Excurrere	skorrere	s-k-oh-r-r-ay-r-ay
ToFlow-Currere	korrere	k-oh-r-r-ay-r-ay
ToFreeze	dʒelare	VdPalatoAlveolarSibilant-ay-l-ah-r-ay
ToFreeze-Glaciare	gʒatʃʃare	g-jg-ah-t-ts-jg-ah-r-ay
ToSwell	aumentare	au_diphthong-m-ay-n-t-ah-r-ay
ToSwell-Inflare	enfiare	ay-n-f-e-ah-r-ay
ToSwell-Conflare	gonʃʃare	g-oh-n-f-jg-ah-r-ay
ToSwell-Crescere	kreʃʃere	k-r-ay-shh-shh-ay-r-ay
ToBurn-Brojan	bruʃʃare	b-r-u-ts-ah-r-ay
ToBurn-Cremare	kremare	k-r-ay-m-ah-r-ay
ToBurn-Flammare	fjammare	f-jg-ah-m-m-ah-r-ay
ToBurn-Ardere	ardere	ah-r-d-ay-r-ay
ToBurn-Flagrare	flagrare	f-l-ah-g-r-ah-r-ay
ToBurn-Incendere	inʃʃendjare	e-n-ts-eh-n-d-jg-ah-r-ay
ToBurn-AncestralClass8	ustolare	u-s-t-oh-l-ah-r-ay
All	opni	oh-VdPalatalNasal-VdPalatalNasal-e
All-Totus	tutto	t-u-t-t-oh
Many	molto	m-oh-l-t-oh
Many-Tantus	tanto	t-ah-n-t-oh
Some	alkuno	ah-l-k-u-n-oh
Few	poko	p-euh-k-oh
Other	altro	ah-l-t-r-oh
Big	mapno	m-ah-VdPalatalNasal-VdPalatalNasal-oh
Big-Grandem	grande	g-r-ah-n-d-ay
Long-Longum	lungo	l-u-n-g-oh
Long-Largum	largo	l-ah-r-g-oh
Wide	lato	l-ah-t-oh
Wide-Amplum	ampjo	ah-m-p-jg-oh
Thick	grasso	g-r-ah-s-s-oh
Thick-Spissum	spesso	s-p-ay-s-s-oh
Thick-Grossum	grosso	j-r-euh-s-s-oh
Heavy	greve	g-r-eh-v-ay
Heavy-Lurdus	lordo	l-oh-r-d-oh
Heavy-Pesant	pesante	p-ay-s-ah-n-t-ay
Small-Pittinus	pittʃino	p-e-t-ts-e-n-oh
Small-Pitulus	pikkolo	p-e-k-k-oh-l-oh

## Appendix 4 - Word Lists by Language

Short	korto	k-oh-r-t-oh
Short-Brevis	breve	b-r-eh-v-ay
Narrow	angusto	ah-n-g-u-s-t-oh
Narrow-Strictus	stretto	s-t-r-ay-t-t-oh
Thin	minuto	m-e-n-u-t-oh
Thin-Delicatus	delikato	d-ay-l-e-k-ah-t-oh
Thin-Subtilis	sottile	s-oh-t-t-e-l-ay
Warm	kaldo	k-ah-l-d-oh
Cold	fred:o	f-r-ay-VdAlveolarStop-oh
Full	pje:~no	p-jg-Eh-n-oh
New	nwo:vo	n-w-LongOpenMidBackRounded-v-oh
Old	vek:jo	v-eh-kk-jg-oh
Good	bwɔ:~no	b-w-LongOpenMidBackRounded-n-oh
Bad	katti:vo	k-ah-t-t-E-v-oh
Rotten	marʃo	m-ah-r-ts-oh
Dirty	sparko	s-p-euh-r-k-oh
Straight	drit:o	d-r-e-VIDentalAlveolar-oh
Round	ton.do	t-oh-n-d-oh
SharpAsAKnife	affila:to	ah-f-f-e-l-A-t-oh
DullAsAKnife	zmussa:to	zz-m-u-s-s-A-t-oh
Smooth	liʃfo	l-e-shh-shh-oh
Wet	baɲpa:to	b-ah-VdPalatalNasal-VdPalatalNasal-A-t-oh
Dry	sekko	s-ay-k-k-oh
Correct	korretto	k-oh-r-r-ay-t-t-oh
Near	viʃi:~no	v-e-ts-E-n-oh
Far	lonta:~no	l-oh-n-t-A-n-oh
Right-Dextrem	destro	d-eh-s-t-r-oh
Right-Directus	destra	d-eh-s-t-r-ah
Left	sinistro	s-e-n-e-s-t-r-oh
Red	rosso	r-oh-s-s-oh
Red-Vermiculus	vermiʎo	v-ay-r-m-e-yuh-yuh-oh
Red-Rubeus	robbjo	r-euh-b-b-jg-oh
Green	verde	v-ay-r-d-ay
Yellow-Croceus	krotʃeo	k-r-oh-ts-ay-oh
White	albo	ah-l-b-oh
Black	negro	n-ay-j-r-oh
One	uno	u-n-oh
Two-Duae	due	d-u-ay
Three	tre	t-r-ay
Four	kwattro	k-w-ah-t-t-r-oh
Five	ʃiɲkwe	ts-e-nya-k-w-ay
Here	kwi	k-w-e
There	la	l-ah
There-Ibi	vi	v-e
Who-Qui	ki	k-e
What	ke	k-ay
Where-Ubi	ove	oh-v-ay
Where-Unde	onde	oh-n-d-ay
When-Quando	kwando	k-w-ah-n-d-oh
How-Quomodo	kome	k-oh-m-ay
Not	non	n-oh-n
Not-Nec	ne	n-ay
At	a	ah
In-In	in	e-n
With-Cum	kon	k-oh-n
And-Et	e	ay
If	se	s-ay

## Appendix 4 - Word Lists by Language

Because-Quod	ke	k-ay
Because-Proquid	perke	p-ay-r-k-ay

### Brazilian Portuguese

Cognate	IPA	Sounds
I	ew	ay-w
We	nojs	n-euh-jg-s
YouPlural	vojs	v-euh-jg-s
They	elis	ay-l-e-s
This	isu	e-s-u
That	akilu	ah-k-e-l-u
YouSingular	tu	t-u
YouSingular-VostramMercedem	vose	v-oh-s-ay
He	eli	ay-l-e
Woman	femeɐ	f-ay-m-ay-ahh
Woman-Mulier	muʎɐ	m-u-yuh-ay-rr
Woman-Domina	donɐ	d-oh-n-ahh
ManHumanBeing	omɛj	oh-m-nasal_diphthong_portuguese1
Child	ifɛjɿ	een-f-ahn-ts-e
Child-Ninnus	nenɛj	n-ay-n-nasal_diphthong_portuguese1
Wife	ispoza	e-s-p-oh-zz-ah
Wife-Mulier	muʎɐ	m-u-yuh-ay-rr
Husband	maridu	m-ah-er-e-d-u
Husband-Sponsus	ispozu	e-s-p-oh-zz-u
Mother	mɛj	m-nasal_diphthong_portuguese2
Father	paj	p-aj_diphthong
Father-Tata	tata	t-ah-t-ah
Animal-Bestia	biʃɐ	b-e-shh-ahh
Fish-Piskem	pejʃɿ	p-ej_diphthong-shh-e
Bird-Avem	avi	ah-v-e
Bird-Passerem	pasɐru	p-ah-s-ahh-er-u
Dog	kɛw̃	k-au_diphthong_nasal
Louse	pioʎu	p-e-oh-yuh-u
Snake	sɛkɐɛjɿ	s-ay-rr-p-ehn-ts-e
Worm	veɾmi	v-ay-rr-m-e
Tree	akvoɾi	ah-rr-v-oh-er-e
Forest	sɛwva	s-eh-w-v-ah
Stick	paw	p-ah-w
Fruit	frute	f-er-u-t-ahh
Seed-Sementis	semɛjɿ	s-ay-m-ehn-ts-e
Seed-Granum	grɛw̃	g-er-au_diphthong_nasal
Leaf	foʎɐ	f-oh-yuh-ahh
Leaf-Frondea	frɔsɐ	f-er-on-s-ahh
Root	ɾais	rr-ah-e-s
BarkOfATree	kɔɾʃisi	k-euh-rr-ts-e-s-e
BarkOfATree-Corticea	kɔɾʃisɐ	k-oh-rr-ts-e-s-ahh
Flower	floɾ	f-l-oh-rr
Grass	ɛɾvɐ	ay-rr-v-ahh
Grass-Gramen	grɛmɐ	g-er-ahn-m-ahh
Rope	kɔɾdɐ	k-oh-rr-d-ahh
Skin	kɔɾziɐ	k-oh-VdPalatoAlveolarSibilant-e-ahh
Skin-Pellis	peʎi	p-eh-l-e
Meat	kɔɾni	k-ah-rr-n-e
Blood	sɛgi	s-ahn-g-e
Bone	osu	oh-s-u

## Appendix 4 - Word Lists by Language

FatNoun	gɔɔdure	g-oh-rr-d-u-er-ahh
Egg	ovu	oh-v-u
Horn	ʃifri	shh-e-f-er-e
Tail	kawdɛ	k-ah-w-d-ahh
Feather-Penna	pene	p-ay-n-ahh
Hair	pelu	p-ay-l-u
Hair-Capillus	kabelu	k-ah-b-ay-l-u
Head	kabese	k-ah-b-ay-s-ahh
Head-Testa	testɛ	t-eh-s-t-ahh
Ear	oreʌɛ	oh-er-ay-yuh-ahh
Eye	oʌu	oh-yuh-u
Nose-Nares	naris	n-ah-er-e-s
Mouth	boke	b-oh-k-ahh
Tooth	dɛʃi	d-ehn-ts-e
Fingernail	uɲɛ	u-VdPalatalNasal-ahh
Foot	pɛ	p-ch
Leg	peɣne	p-ay-rr-n-ahh
Knee	zueʌu	gzah-u-ay-yuh-u
Hand	mɛw	m-au_diphthong_nasal
Wing	a	ah
Belly	vɛtri	v-ehn-t-er-e
Guts	ɛtreɲɛs	ehn-t-er-ahh-VdPalatalNasal-ahh-s
Neck	kɔlu	k-euh-l-u
Back-Spatula	ʃɪpadwɛ	e-shh-p-ah-d-w-ahh
Breast	seju	s-ej_diphthong-u
Breast-Pectus	pejtu	p-ej_diphthong-t-u
Heart	kɔɣ	k-euh-rr
Heart-Anima	awme	ah-w-m-ahh
Liver	figɛdu	f-e-g-ahh-d-u
Sun	sɔw	s-euh-w
Moon	luɛ	l-u-ahh
Star	istreʌɛ	e-s-t-er-ay-l-ahh
Water	agwe	ah-g-w-ahh
Rain	ʃuve	shh-u-v-ahh
River	flumi	f-l-u-m-e
River-Rivus	ɣiw	rr-e-w
Lake	lagu	l-ah-g-u
Sea	maɣ	m-ah-rr
Salt	saw	s-ah-w
Stone	sejʃu	s-ej_diphthong-shh-u
Stone-Petra	pedre	p-ay-d-er-ahh
Sand	areje	ah-er-ej_diphthong-ahh
Sand-Sabulum	sajβru	s-aj_diphthong-bb-er-u
Dust-Pulwus	pɔ	p-euh
Earth	teɣɛ	t-ay-rr-ahh
Cloud	nuvɛʃ	n-u-v-nasal_diphthong_portuguese1
Cloud-Secondary	nubladu	n-u-b-l-ah-d-u
Fog	kalizɛʃ	k-ah-l-e-gzah-nasal_diphthong_portuguese1
Fog-Nebula	nevwe	n-eh-v-w-ahh
Fog-Fumata	fumase	f-u-m-ah-s-ahh
Sky	sew	s-eh-w
Wind	vɛtu	v-ehn-t-u
Snow	nɛ.vi	n-eh-v-e
Smoke	fumu	f-u-m-u
Fire-Focus	fogu	f-oh-g-u
Ash-Cinisia	sizɛʃ	s-eeen-zz-ahh-shh
Road	viɛ	v-e-ahh

## Appendix 4 - Word Lists by Language

Road-Strata	istradɐ	e-s-t-er-ah-d-ahh
Road-Camminus	kamɪnu	k-ah-m-eeen-VdPalatalNasal-u
Mountain	mōʃʃi	m-on-ts-e
Mountain-Montanea	mōʃʃɐ	m-on-t-ahn-VdPalatalNasal-ahh
Night	noʃti	n-øj_diphthong-t-eee
Day	diɐ	d-e-ahh
Day-Diurna	ʒɔɳna	gzah-euh-rr-n-ah
Year	ɐnu	ahh-n-u
Name-Nomen	nomi	n-oh-m-e
ManMale	omɛʃ	oh-m-nasal_diphthong_portuguese1
ManHuman	omɛʃ	oh-m-nasal_diphthong_portuguese1
Tongue	liŋwɐ	l-eeen-g-w-ahh
ToDrink	bebeɳ	b-ay-b-ay-rr
ToEat	kome	k-oh-m-ay
ToEat-Manducare	mɛʒaɳ	m-ahn-gzah-ah-rr
ToBite	moɳdeɳ	m-oh-rr-d-ay-rr
ToBite-Morsicare	musəga	m-u-s-aah-g-ah
ToSuck	sugaɳ	s-u-g-ah-rr
ToSpit	kuspiɳ	k-u-s-p-e-rr
ToVomit	vumitaɳ	v-u-m-e-t-ah-rr
ToBlow	sopraɳ	s-oh-p-er-ah-rr
ToBreathe	ʁɛʃpirar	rr-ay-shh-p-e-er-ah-er
ToLaugh	ɳiɳ	rr-e-rr
ToSee	veɳ	v-ay-rr
ToHear	o(w)viɳ	ooow-v-e-rr
ToKnow-Sapere	sabeɳ	s-ah-b-ay-rr
ToKnow-Cognoscere	koɳeseɳ	k-oh-VdPalatalNasal-ay-s-ay-rr
ToThink	kuzitaɳ	k-u-gzah-e-t-ah-rr
ToThink-Pensare	pɛsaɳ	p-ehn-s-ah-rr
ToSmell-Sentire	sɛʃʃiɳ	s-ehn-VlAlveoloPalatalSibilantAffricate-e-rr
ToSmell-Fragrare	ʃɛjraɳ	shh-ej_diphthong-er-ah-rr
ToFear	temeɳ	t-ay-m-ay-rr
ToFear-Tremere	tremeɳ	t-er-ay-m-ay-rr
ToSleep	doɳmiɳ	d-oh-rr-m-e-rr
ToLive	viveɳ	v-e-v-ay-rr
ToDie	moɳeɳ	m-oh-rr-ay-rr
ToKill-Mactare	mataɳ	m-ah-t-ah-rr
ToFight-Battuere	bateɳ	b-ah-t-ay-rr
ToHunt-Captiare	kasaa	k-ah-s-ah-rr
ToHit	puʃaa	p-u-shh-ah-rr
ToCut	segaɳ	s-ay-g-ah-rr
ToCut-Curtare	koɳtaɳ	k-oh-rr-t-ah-rr
ToCut-Taliare	taʎaa	t-ah-yuh-ah-rr
ToSplit	ʒʒivɪdʒiɳ	VdPalatoAlveolarSibilant-e-v-e-VdPalatoAlveolarSibilant-e-rr
ToSplit-Findere	fɛdeɳ	f-ehn-d-ay-rr
ToSplit-Partire	paɳʃʃiɳ	p-ah-rr-ts-e-rr
ToSplit-Separare	separaɳ	s-ay-p-ah-er-ah-rr
ToStab	pūʒiɳ	p-ooo-gzah-e-rr
ToScratch	ʁaaɳ	rr-ah-ay-rr
ToScratch-Rasare	ʁazaɳ	rr-ah-zz-ah-rr
ToScratch-Rasicare	ʁaʃkaɳ	rr-ah-shh-k-ah-rr
ToScratch-Coctiare	kosaʎ	k-oh-s-ah-VdRetroflexApproximant
ToDig-Cavare	kɛvaɳ	k-ahh-v-ah-rr
ToDig-Excavare	ɪʃkɛvaɳ	e-shh-k-ahh-v-ah-rr
ToSwim	nadaɳ	n-ah-d-ah-rr
ToSwim-Navigare	naviʎaaɳ	n-ah-v-eee-juh-ah-rr
ToFly	voaaɳ	v-oh-ah-rr

## Appendix 4 - Word Lists by Language

ToWalk	kəmjɔɤ	k-ahh-m-e-VdPalatalNasal-ah-rr
ToWalk-Ambitare	ɛdɔɤ	ahn-d-ah-rr
ToCome	viɤ	v-e-rr
ToLieAsInABed	istɛdɛɤ	e-s-t-ehn-d-ay-rr
ToLieAsInABed-lacere	ʒɛzɛɤ	gzah-ahh-zz-ay-rr
ToSit	sɛɤ	s-ay-rr
ToSit-Sedentare	sɛtar	s-ehn-t-ah-er
ToStand	iftar	eee-shh-t-ah-er
ToStand-Levare	levɔɤ	l-ay-v-ah-rr
ToStand-Altiare	alsa	ah-ssha-s-ah
ToTurnIntransitive	toɤnɔɤ	t-oh-rr-n-ah-rr
ToTurnIntransitive-Gyrare	ʒɛɤ	gzah-e-er-ah-er
ToTurnIntransitive-AncestralClass3	viɤɤ	v-e-er-ah-er
ToTurnIntransitive-Torqueare	turser	t-u-r-s-ay-r
ToFall	kɛɤ	k-ahh-e-er
ToFall-Tumbare	tɔbɔɤ	t-on-b-ah-rr
ToGive	dɔɤ	d-ah-rr
ToGive-Donare	doɔ	d-oh-ah
ToHold	tɛɤ	t-ay-rr
ToHold-Segurar	sigurɔɤ	s-eee-g-u-er-ah-rr
ToSqueeze	ifprɛmɛɤ	e-shh-p-r-aah-m-ay-rr
ToSqueeze-Serrere	sɛɤ	s-ay-rr-ah
ToSqueeze-Serare	sɛɤ	s-eee-rr-ah-er
ToSqueeze-Appectorare	ɛpɛɤ	ahh-p-eee-er-t-ah-er
ToSqueeze-Stringere	ɔftɛɤ	aah-shh-t-r-een-gzah-e-r
ToRub-Exfricare	iffrigar	eee-shh-f-er-eee-g-ah-er
ToWash	lɛɤ	l-ahh-v-ah-er
ToWipe-Exsucare	ɛfugɔɤ	ehn-shh-u-g-ah-er
ToWipe-Limpidare	lɛɤ	l-een-p-ah-er
ToPull	ftɛɤ	ts-e-er-ah
ToPull-Pulsare	pɛɤ	p-u-shh-ah-er
ToPull-Trahere	trɛɤ	t-er-ah-zz-ay
ToThrow	ʒɛɤ	gzah-ej_diphthong-t-ah-er
ToThrow-Lanceare	lɛɤ	l-ahn-s-ah
ToTie-Aptare	ɛtar	ahh-t-ah-er
ToSew	kuzɛɤ	k-u-zz-ay-er
ToCount	kɔtar	k-on-t-ah-er
ToCount-Enumerare	enumerar	ay-n-u-m-ay-er-ah-er
ToSay	dizer	d-e-zz-ay-er
ToSing-AncestralClass	kɛtar	k-ahn-t-ah-er
ToPlay-Jiocare	ʒɔɤ	gzah-oh-g-ah-rr
ToFloat	flutuɔɤ	f-l-u-t-u-ah-rr
ToFlow	flwiɤ	f-l-w-e-rr
ToFlow-Colare	koɔ	k-oh-ah-rr
ToFlow-Excurrere	ifkɔɛɤ	e-shh-k-oh-rr-ay-rr
ToFlow-Currere	koɛɤ	k-oh-rr-ay-rr
ToFreeze	ʒɛɤ	gzah-eee-l-ah-er
ToSwell	augmentar	au_diphthong-j-m-ay-n-t-ah-er
ToSwell-Inflate	iftar	een-shh-ah-er
ToSwell-Intumescere	itumeser	een-t-u-m-ay-s-ay-er
ToSwell-Crescere	kreɛɤ	k-er-ay-s-ay-rr
ToBurn-Cremare	keɤmarɛ	k-diphthong_portuguese-m-ah-er-ay
ToBurn-Ardere	arɛɤ	ah-rr-d-ay-rr
ToBurn-Flagrare	flagɛɤ	f-l-ah-j-rr-ah-rr
ToBurn-Incendere	isendɛɤ	een-s-ay-n-VdPalatoAlveolarSibilant-NearCloseFrontUnrounded-ah-er
All-Totus	todu	t-oh-d-u

## Appendix 4 - Word Lists by Language

Many	mũjtu	m-ooo-jn-t-u
Many-Tantus	tətu	t-ahn-t-u
Some	awgũ	ah-w-g-ooo
Few	powku	p-oh-w-k-u
Other	owtru	oh-w-t-er-u
Other-Alius	aw	ah-w
Big-Grandem	grēdʒi	g-er-ahn-VdPalatoAlveolarSibilant-e
Long-Longum	lōgu	l-on-g-u
Long-Largum	laɾgu	l-ah-rr-g-u
Wide	latu	l-ah-t-u
Wide-Amplum	ɛʃu	ahn-shh-u
Thick-Spissum	espesu	ay-s-p-eh-s-u
Thick-Grossum	grosu	g-er-oh-s-u
Heavy	gravi	g-er-ah-v-e
Heavy-Lurdus	lerdo	l-ay-er-d-oh
Heavy-Pesant	pezadu	p-ay-zz-ah-d-u
Small-Pittinus	pekenu	p-ay-k-ay-n-u
Short	kuxtu	k-u-rr-t-u
Short-Brevis	brevi	b-er-eh-v-e
Narrow-Strictus	istrejtʉ	e-s-t-er-ej_diphthong-t-u
Thin	miudu	m-e-u-d-u
Thin-Delicatus	dewgadu	d-ay-w-g-ah-d-u
Thin-Subtilis	sufʃiw	s-u-ts-e-w
Warm	kēti	k-ehn-t-eee
Cold	friu	f-er-e-u
Full	ʃɛju	shh-diphthong_portuguese-u
New	novu	n-oh-v-u
Old	veʎu	v-ay-yuh-u
Good	bō	b-on
Bad	maw	m-ah-w
Rotten	podri	p-oh-d-er-eee
Dirty	suzu	s-u-gzah-u
Straight	direjtu	d-e-er-diphthong_portuguese-t-u
Round	ʁidōdu	rr-eee-d-on-d-u
SharpAsAKnife	ɛfiadu	ahh-f-e-ah-d-u
DullAsAKnife	segu	s-ay-g-u
Smooth	lizu	l-e-zz-u
Wet	umidu	u-m-e-d-u
Dry	seku	s-ay-k-u
Near	pektu	p-ay-rr-t-u
Far	lōʒi	l-on-gzah-e
Right-Dextrem	destru	d-eh-s-t-er-u
Right-Directus	direjtɐ	d-e-er-diphthong_portuguese-t-ahh
Left	ɨʃkerðɐ	eee-shh-k-ay-er-dd-ahh
Red	ʁoʃu	rr-oh-shh-NearCloseBackRounded
Red-Vermiculus	veʁmeʎu	v-ay-rr-m-ay-yuh-u
Red-Rubeus	rubeo	r-u-b-ay-oh
Green	verdi	v-ay-er-d-eee
Yellow-Amarellus	ɐmareʎu	ahh-m-ah-er-eh-l-u
White	awvu	ah-w-v-u
Black	negru	n-ay-g-er-u
Black-Pretto	pretu	p-er-ay-t-u
One	ũ	ooo
Two-Duos	dojs	d-oj_diphthong-s
Two-Duas	dues	d-u-ahh-s
Three	tres	t-er-ay-s
Four	kwatru	k-w-ah-t-er-u

## Appendix 4 - Word Lists by Language

Five	siku	s-eeen-k-u
Here	aki	ah-k-e
There	la	l-ah
There-Adlbi	ai	ah-e
Who-Quem	kẽj	k-nasal_diphthong_portuguese1
What	ki	k-e
Where-Unde	õdʒi	on-VdPalatoAlveolarSibilant-e
When-Quando	kwẽdu	k-w-ahn-d-u
How-Quomodo	komu	k-oh-m-u
Not	nẽw	n-au_diphthong_nasal
Not-Nec	nẽj	n-nasal_diphthong_portuguese1
At	a	ah
In-In	ẽj	nasal_diphthong_portuguese1
With-Cum	kõ	k-on
And-Et	i	e
If	si	s-e
Because-Quod	ki	k-e
Because-Proquid	purke	p-u-er-k-ay

## Portuguese

Cognate	IPA	Sounds
I	ew	ay-w
We	nɔʃ	n-euh-shh
YouPlural	voʃ	v-oh-shh
They	eliʃ	ay-l-eee-shh
This	iftu	e-shh-t-u
That	økilu	ahh-k-e-l-u
YouSingular	tu	t-u
YouSingular-VostramMercedem	vɔse	v-euh-s-ay
He	eli	ay-l-eee
Woman	femjɐ	f-ay-m-jg-ahh
Woman-Mulier	mulɐr	m-u-yuh-ay-er
Woman-Domina	donɐ	d-oh-n-ahh
ManHumanBeing	ɔmẽj	euh-m-nasal_diphthong_portuguese1
Child	ĩfɛti	een-f-ahn-t-eee
Child-Ninnus	nenẽj	n-ay-n-nasal_diphthong_portuguese1
Wife	ĩʃpozɐ	eee-shh-p-oh-zz-ahh
Wife-Mulier	mulɐr	m-u-yuh-ay-er
Husband	mɛriðu	m-ahh-er-e-dd-u
Husband-Sponsus	ĩʃpozu	eee-shh-p-oh-zz-u
Mother	mẽj	m-nasal_diphthong_portuguese2
Father	paj	p-aj_diphthong
Father-Tata	tata	t-ah-t-ah
Animal-Bestia	biʃɐ	b-e-shh-ahh
Fish-Piskem	pɛjʃi	p-diphthong_portuguese-shh-eee
Bird-Avem	avi	ah-v-eee
Bird-Passerem	pasɛru	p-ah-s-ahh-er-u
Dog	kẽw	k-au_diphthong_nasal
Louse	pioʎu	p-e-oh-yuh-u
Snake	sɪrpɛti	s-eee-er-p-ehn-t-eee
Worm	vermi	v-ay-er-m-eee
Tree	arvuri	ah-er-v-u-er-eee
Forest	sɛʎɐ	s-eh-ssha-v-ahh
Stick	paw	p-ah-w
Fruit	frutɐ	f-er-u-t-ahh



## Appendix 4 - Word Lists by Language

Seed-Sementis	simčeti	s-eee-m-ehn-t-eee
Seed-Granum	grēw	g-er-au_diphthong_nasal
Leaf	foʎe	f-oh-yuh-ahh
Leaf-Frondea	frōse	f-er-on-s-ahh
Root	ʁeif	rr-ahh-e-shh
BarkOfATree	kōrtisi	k-euh-er-t-e-s-eee
BarkOfATree-Corticea	kurtise	k-u-er-t-e-s-ahh
Flower	flor	f-l-oh-er
Grass	erue	eh-er-v-ahh
Grass-Gramen	grēmē	g-er-ahh-m-ahh
Rope	korðe	k-oh-er-dd-ahh
Skin	kodiē	k-oh-d-e-ahh
Skin-Pellis	pele	p-ay-l-eee
Meat	karni	k-ah-er-n-eee
Blood	sēgi	s-ahn-g-eee
Bone	osu	oh-s-u
FatNoun	gurðure	g-u-er-dd-u-er-ahh
Egg	ovu	oh-v-u
Horn	ʃifri	shh-e-f-er-eee
Tail	kawde	k-ah-w-d-ahh
Feather-Penna	pene	p-ay-n-ahh
Hair	pilu	p-eee-l-u
Hair-Capillus	kēβelu	k-ahh-bb-ay-l-u
Head	kēβese	k-ahh-bb-ay-s-ahh
Head-Testa	tēʃtē	t-eh-shh-t-ahh
Ear	orejʎe	oh-er-diphthong_portuguese-yuh-ahh
Eye	olu	oh-yuh-u
Nose-Nares	nerif	n-ahh-er-e-shh
Mouth	bokē	b-oh-k-ahh
Tooth	dēti	d-ehn-t-eee
Fingernail	upē	u-VdPalatalNasal-ahh
Foot	pē	p-eh
Leg	per.nē	p-eh-er-n-ahh
Knee	zueʎu	gzah-u-ay-yuh-u
Hand	mēw	m-au_diphthong_nasal
Wing	a	ah
Belly	vētri	v-ehn-t-er-eee
Guts	ētreɲeʃ	ehn-t-er-ahh-VdPalatalNasal-ahh-shh
Neck	kolu	k-euh-l-u
Back-Spatula	ifpadwē	e-shh-p-ah-d-w-ahh
Breast	seju	s-diphthong_portuguese-u
Breast-Pectus	pejtu	p-diphthong_portuguese-t-u
Heart	kor	k-oh-er
Heart-Anima	almē	ah-l-m-ahh
Liver	fiyēðu	f-e-juh-ahh-dd-u
Sun	sol	s-euh-ssha
Moon	lue	l-u-ahh
Star	iftrele	eee-shh-t-er-ay-l-ahh
Water	agwe	ah-g-w-ahh
Rain	ʃuve	shh-u-v-ahh
River	flumi	f-l-u-m-eee
River-Rivus	riu	rr-e-u
Lake	layu	l-ah-juh-u
Sea	mar	m-ah-er
Salt	sal	s-ah-l
Stone	sejfu	s-diphthong_portuguese-shh-u
Stone-Petra	peðre	p-ch-dd-er-ahh

## Appendix 4 - Word Lists by Language

Sand	ɐɾɛʝɐ	ahh-er-diphthong_portuguese-ahh
Sand-Sabulum	sajβru	s-aj_diphthong-bb-er-u
Dust-Pulwus	pɔ	p-euh
Earth	tɛɾɐ	t-eh-rr-ahh
Cloud	nuvẽj	n-u-v-nasal_diphthong_portuguese2
Cloud-Secondary	nubladu	n-u-b-l-ah-d-u
Fog	kɛliʒẽj	k-ahh-l-e-gzah-nasal_diphthong_portuguese2
Fog-Nebula	nɛvwɐ	n-eh-v-w-ahh
Fog-Tenebras	trɛvɛʃ	t-er-eh-v-ahh-shh
Fog-Fumata	fumasɐ	f-u-m-ah-s-ahh
Sky	sew	s-eh-w
Wind	vẽtu	v-ehn-t-u
Snow	nɛvi	n-eh-v-eee
Smoke	fumu	f-u-m-u
Fire-Focus	foɣu	f-oh-juh-u
Ash-Cinisia	sizɛʃ	s-een-zz-ahh-shh
Road	viɐ	v-e-ahh
Road-Strata	ɨʃtraðɐ	e-shh-t-er-ah-dd-ahh
Road-Camminus	kɛmɨnu	k-ahh-m-e-VdPalatalNasal-u
Mountain	mõti	m-on-t-eee
Mountain-Montanea	mõtɛɾɐ	m-on-t-ahh-VdPalatalNasal-ahh
Night	nojti	n-øj_diphthong-t-eee
Day	diɐ	d-e-ahh
Day-Diurna	ʒɔɾna	gzah-euh-rr-n-ah
Year	ɐnu	ahh-n-u
Name-Nomen	nomi	n-oh-m-eee
ManMale	omẽj	oh-m-nasal_diphthong_portuguese1
ManHuman	omẽj	oh-m-nasal_diphthong_portuguese1
Tongue	liɣwɐ	l-een-g-w-ahh
ToDrink	biʃɛɾ	b-eee-bb-ay-er
ToEat	kumer	k-u-m-ay-er
ToEat-Manducare	mẽʒar	m-ahn-gzah-ah-er
ToBite	murðɛɾ	m-u-er-dd-ay-er
ToBite-Morsicare	musɔɣar	m-u-s-aah-g-ah-r
ToSuck	sugar	s-u-g-ah-er
ToSpit	kuʃpiɾ	k-u-shh-p-e-er
ToVomit	vumitar	v-u-m-e-t-ah-er
ToBlow	suprar	s-u-p-er-ah-er
ToBreathe	ʁiʃpiɾar	rr-eee-shh-p-e-er-ah-er
ToLaugh	ʁiɾ	rr-e-er
ToSee	ver	v-ay-er
ToHear	ovir	oh-v-e-er
ToKnow-Sapere	sɛbɛɾ	s-ahh-b-ay-er
ToKnow-Cognoscere	kupisɛɾ	k-u-VdPalatalNasal-eee-s-ay-er
ToThink	kuʒitar	k-u-gzah-e-t-ah-er
ToThink-Pensare	pɛsar	p-ehn-s-ah-er
ToSmell-Sentire	sɛtir	s-ehn-t-e-er
ToSmell-Fragrare	ʃɛjɾar	shh-diphthong_portuguese-er-ah-er
ToFear	timer	t-eee-m-ay-er
ToFear-Tremere	trimer	t-er-eee-m-ay-er
ToSleep	durmir	d-u-er-m-e-er
ToLive	viver	v-e-v-ay-er
ToDie	mukɛɾ	m-u-rr-ay-er
ToKill-Mactare	mɛtar	m-ahh-t-ah-er
ToFight-Battuere	bɛtɛɾ	b-ahh-t-ay-er
ToHunt-Captiare	kɛsar	k-ahh-s-ah-er
ToHit	puʃar	p-u-shh-ah-er

## Appendix 4 - Word Lists by Language

ToCut	siyar	s-eee-juh-ah-er
ToCut-Curtare	kurtar	k-u-er-t-ah-er
ToCut-Taliare	teɬar	t-ahh-yuh-ah-er
ToSplit	diviðir	d-e-v-e-dd-e-er
ToSplit-Findere	fēder	f-ehn-d-ay-er
ToSplit-Partire	pertir	p-ahh-er-t-e-er
ToSplit-Separare	sipɐrar	s-eee-p-ahh-er-ah-er
ToStab	pūzir	p-ooo-gzah-e-er
ToScratch	køer	rr-ahh-ay-er
ToScratch-Rasare	køzar	rr-ahh-zz-ah-er
ToScratch-Rasicare	køɟkar	rr-ahh-shh-k-ah-er
ToScratch-Coctiare	kusar	k-u-s-ah-er
ToDig-Cavare	kɐvar	k-ahh-v-ah-er
ToDig-Excavare	ɟkɐvar	e-shh-k-ahh-v-ah-er
ToSwim	nɐðar	n-ahh-dd-ah-er
ToSwim-Navigare	nɐviyar	n-ahh-v-eee-juh-ah-er
ToFly	vwar	v-w-ah-er
ToWalk	kɐmɪnar	k-ahh-m-e-VdPalatalNasal-ah-er
ToWalk-Ambitare	ɛðar	ahn-d-ah-er
ToCome	vir	v-e-er
ToLieAsInABed	ɪftēder	e-shh-t-ehn-d-ay-er
ToLieAsInABed-lacere	zøzer	gzah-ahh-zz-ay-er
ToSit	ser	s-ay-er
ToSit-Sedentare	sētar	s-ehn-t-ah-er
ToStand	ɪftar	eee-shh-t-ah-er
ToStand-Levare	livar	l-eee-v-ah-er
ToStand-Altiare	alsar	ah-ssha-s-ah-er
ToTurnIntransitive	turnar	t-u-er-n-ah-er
ToTurnIntransitive-Gyrare	zirar	gzah-e-er-ah-er
ToTurnIntransitive-AncestralClass3	zirar	gzah-e-er-ah-er
ToTurnIntransitive-Torqueare	turser	t-u-r-s-ay-r
ToFall	køir	k-ahh-e-er
ToFall-Tumbare	tōbar	t-on-b-ah-er
ToGive	dar	d-ah-er
ToGive-Donare	duar	d-u-ah-er
ToHold	ter	t-ay-er
ToHold-Segurar	siɟurar	s-eee-juh-u-er-ah-er
ToSqueeze	ɪfprømer	e-shh-p-r-aah-m-ay-r
ToSqueeze-Serrere	sɔrar	s-aah-VIUvularTrill-ah-er
ToSqueeze-Serare	sɪrar	s-eee-rr-ah-er
ToSqueeze-Appetorare	ɐpirtar	ahh-p-eee-er-t-ah-er
ToSqueeze-Stringere	ɔstrɪzir	aah-shh-t-r-ehn-gzah-e-r
ToRub-Exfricare	ɪffriyar	eee-shh-f-er-eee-juh-ah-er
ToWash	lɐvar	l-ahh-v-ah-er
ToWipe-Exsucare	ɛfuɟar	ehn-shh-u-juh-ah-er
ToWipe-Limpidare	lipar	l-ehn-p-ah-er
ToPull	tirar	t-e-er-ah-er
ToPull-Pulsare	pufar	p-u-shh-ah-er
ToPull-Trahere	trezer	t-er-ahh-zz-ay-er
ToThrow	zeɟtar	gzah-ej_diphthong-t-ah-er
ToThrow-Lanceare	lɐsar	l-ahn-s-ah-er
ToTie-Aptare	ɛtar	ahh-t-ah-er
ToSew	kuzer	k-u-zz-ay-er
ToCount	kōtar	k-on-t-ah-er
ToCount-Enumerare	enumerar	ay-n-u-m-ay-er-ah-er
ToSay	dizer	d-e-zz-ay-er
ToSing-AncestralClass	kɛtar	k-ahn-t-ah-er

## Appendix 4 - Word Lists by Language

ToPlay-Jiocare	zuyar	gzah-u-juh-ah-er
ToFloat	flutuar	f-l-u-t-u-ah-er
ToFlow	flwir	f-l-w-e-er
ToFlow-Colare	kuar	k-u-ah-er
ToFlow-Excurrere	ijkurer	e-shh-k-u-VIUvularTrill-ay-er
ToFlow-Currere	kuɤer	k-u-rr-ay-er
ToFreeze	zilar	gzah-eee-l-ah-er
ToSwell	augmentar	au_diphthong-j-m-ay-n-t-ah-er
ToSwell-Inflare	ĩfar	een-shh-ah-er
ToSwell-Intumescere	ĩtumeser	een-t-u-m-ay-s-ay-er
ToSwell-Crescere	kriřser	k-er-eee-shh-s-ay-er
ToBurn-Cremare	kejmaɤe	k-ej_diphthong-m-ah-rr-ay
ToBurn-Ardere	ɤrder	ahh-er-d-ay-er
ToBurn-Flagrare	flagrar	f-l-ah-g-er-ah-er
ToBurn-Incendere	ĩsɛdjar	een-s-ehn-d-jg-ah-er
All-Totus	toðu	t-oh-dd-u
Many	mũjtu	m-ooo-jn-t-u
Many-Tantus	tɛtu	t-ahn-t-u
Some	ałgũ	ah-ssha-g-ooo
Few	powku	p-oh-w-k-u
Other	owtru	oh-w-t-er-u
Other-Alius	ał	ah-ssha
Big-Grandem	grɛdi	g-er-ahn-d-eee
Long-Longum	lõgu	l-on-g-u
Long-Largum	largu	l-ah-er-g-u
Wide	latu	l-ah-t-u
Wide-Amplum	ẽřu	ahn-shh-u
Thick	grařu	g-er-ah-shh-u
Thick-Spissum	ĩřpesu	e-shh-p-ay-s-u
Thick-Grossum	grosu	j-er-oh-s-u
Heavy	gravi	g-er-ah-v-eee
Heavy-Lurdus	lerdo	l-ay-er-d-oh
Heavy-Pesant	pizaðu	p-eee-zz-ah-dd-u
Small-Pittinus	pikenu	p-eee-k-ay-n-u
Short	kurtu	k-u-er-t-u
Short-Brevis	brɛvi	b-er-eh-v-eee
Narrow-Strictus	ĩřtrɛjtu	eee-shh-t-er-diphthong_portuguese-t-u
Thin	miuðu	m-e-u-dd-u
Thin-Delicatus	deřyaðu	d-eh-ssha-juh-ah-dd-u
Thin-Subtilis	suřřiw	s-u-ts-e-w
Warm	kɛti	k-ehn-t-eee
Cold	friu	f-er-e-u
Full	řɛju	shh-diphthong_portuguese-u
New	novu	n-oh-v-u
Old	veřu	v-ay-yuh-u
Good	bõ	b-on
Bad	maw	m-ah-w
Rotten	podri	p-oh-d-er-eee
Dirty	suřu	s-u-gzah-u
Straight	direktu	d-e-er-ay-k-t-u
Round	ɤidõdu	rr-eee-d-on-d-u
SharpAsAKnife	ɛřiadu	ahh-f-e-ah-d-u
DullAsAKnife	seyu	s-ay-juh-u
Smooth	lizu	l-e-zz-u
Wet	umiðu	u-m-e-dd-u
Dry	seku	s-ay-k-u
Near	pertu	p-ay-er-t-u

## Appendix 4 - Word Lists by Language

Far	lōʒi	l-on-gzah-eee
Right-Dextrem	dɛʃtru	d-eh-shh-t-er-u
Right-Directus	dirɛjtɐ	d-e-r-diphthong_portuguese-t-ahh
Left	ɪʃkerðɐ	eee-shh-k-ay-er-dd-ahh
Red	ʁoʃu	rr-oh-shh-u
Red-Vermiculus	virɛmɛjʎu	v-eee-er-m-diphthong_portuguese-yuh-u
Red-Rubeus	rubeo	r-u-b-ay-oh
Green	verdi	v-ay-er-d-eee
Yellow-Amarellus	ɐmɛrɛlu	ahh-m-ahh-er-eh-l-u
White	alvu	ah-l-v-u
Black	negru	n-ay-g-er-u
Black-Pretto	pretu	p-er-ay-t-u
One	ũ	ooo
Two-Duos	dojʃ	d-oj_diphthong-shh
Two-Duas	duɐʃ	d-u-ahh-shh
Three	trejʃ	t-er-ay-shh
Four	kwatru	k-w-ah-t-er-u
Five	sɪku	s-een-k-u
Here	ɐki	ahh-k-e
There	la	l-ah
There-Adlbi	ɐi	ahh-e
Who-Quem	kɐj̃	k-nasal_diphthong_portuguese2
What	ki	k-eee
Where-Ubi	u	u
Where-Unde	ōdi	on-d-eee
When-Quando	kwɛdu	k-w-ahn-d-u
How-Quomodo	komu	k-oh-m-u
Not	nɛw̃	n-au_diphthong_nasal
Not-Nec	nɛj̃	n-nasal_diphthong_portuguese2
At	ɐ	ahh
In-In	ɛj̃	nasal_diphthong_portuguese2
With-Cum	kō	k-on
And-Et	i	e
If	si	s-eee
Because-Quod	ki	k-eee
Because-Proquid	purki	p-u-er-k-eee

## Catalan

Cognate	IPA	Sounds
I	ʒo	gzah-euh
YouPlural	bus	b-u-s
YouSingular	tu	t-u
YouSingular-VostramMercedem	voste	v-oh-s-t-ay
Woman	fembra	f-ay-m-b-er-ah
Woman-Mulier	muʎe	m-u-yuh-ay
Woman-Domina	dɔnə	d-euh-n-aah
ManHumanBeing	ɔmə	euh-m-aah
Child-Ninnus	nen	n-ay-n
Wife	əspɔzə	aah-s-p-euh-zz-aah
Wife-Mulier	muʎe	m-u-yuh-ay
Husband	marit	m-ah-er-e-t
Husband-Sponsus	əspɔs	aah-s-p-euh-s
Mother	marə	m-ah-er-aah
Father	parə	p-ah-er-aah
Fish-Piskem	peʃ	p-ay-shh

## Appendix 4 - Word Lists by Language

Bird-Avem	aw	ah-w
Bird-Avicellum	useʎ	u-s-ay-yuh
Dog	ka	k-ah
Louse	poʎ	p-oh-yuh
Snake	sərpen	s-aah-r-p-ay-n
Snake-Serpens	serp	s-ay-er-p
Worm	vɛrm	v-eh-er-m
Tree	abrə	ah-b-er-aah
Forest	selba	s-ay-l-b-ah
Stick	pal	p-ah-l
Fruit	frujt	f-er-u-jg-t
Seed-Sementis	səmen	s-aah-m-ay-n
Seed-Granum	gra	g-er-ah
Leaf	fuʎə	f-u-yuh-aah
Root	ərel	aah-r-eh-l
BarkOfATree-Skortea	əskørsə	aah-s-k-euh-r-s-aah
Flower	flə	f-l-euh
Grass	erbə	ay-r-b-aah
Grass-Gramen	gram	g-er-ah-m
Skin	konnə	k-oh-n-n-aah
Skin-Pellis	peʎ	p-ay-yuh
Meat	karn	k-ah-er-n
Blood	saŋ	s-ah-nya
Bone	əs	euh-s
Egg	əw	euh-w
Horn	baŋə	b-ah-VdPalatalNasal-aah
Tail	kua	k-u-ah
Feather	plomə	p-l-oh-m-aah
Feather-Penna	peŋə	p-eh-VdPalatalNasal-aah
Hair	pəl	p-eh-l
Hair-Capillus	kəbeʎ	k-aah-b-eh-yuh
Head	kap	k-ah-p
Head-Testa	testə	t-ay-s-t-aah
Ear	ureʎə	u-er-eh-yuh-aah
Nose	nas	n-ah-s
Nose-Nares	na:ris	n-A-r-NearCloseFrontUnrounded-s
Mouth	bokə	b-oh-k-aah
Mouth-Gula	golə	j-oh-l-aah
Foot	pɛw	p-eh-w
Leg	kamə	k-ah-m-aah
Wing	alə	ah-l-aah
Neck	kəʎ	k-euh-yuh
Back	dos	d-oh-s
Back-Spatula	əspaʎʎə	aah-s-p-ah-yuh-yuh-aah
Breast	si	s-e
Breast-Pectus	pit	p-e-t
Heart	kɔr	k-euh-r
Liver	fɛdʒə	f-ay-VdPalatoAlveolarSibilant-aah
Sun	səl	s-euh-l
Moon	ʎunə	yuh-u-n-aah
Star	əstel	aah-s-t-eh-l
Water	ajɣwə	aj_diphthong-juh-w-aah
Rain	pluzə	p-l-u-gzah-aah
River-Rivus	riw	r-e-w
Lake	ʎak	yuh-ah-k
Sea	mar	m-ah-r
Salt	sal	s-ah-l

## Appendix 4 - Word Lists by Language

Stone-Petra	peðrə	p-ay-dd-er-aah
Sand	ərenə	aah-er-ay-n-aah
Sand-Sabulum	sorə	s-oh-r-aah
Dust-Pulwus	pols	p-oh-l-s
Earth	terə	t-eh-r-aah
Cloud-Secondary	nuβuʔ	n-u-bb-u-ssha
Fog-Nebula	newlə	n-ay-w-l-aah
Fog-Tenebras	tənebrəs	t-aah-n-ay-b-er-aah-s
Sky	səl	s-eh-l
Wind	ben	b-ay-n
Snow	new	n-ay-w
Ice	ʒɛʔ	gzah-eh-ssha
Smoke	fum	f-u-m
Fire-Focus	fək	f-euh-k
Ash	sendrə	s-eh-n-d-r-aah
Road	biə	b-e-aah
Road-Camminus	kəmi	k-aah-m-e
Mountain	mun	m-u-n
Mountain-Montanea	muntapə	m-u-n-t-ah-VdPalatalNasal-aah
Night	nit	n-e-t
Day	diə	d-e-aah
Day-Diurnus	ʒorn	gzah-oh-er-n
Year	aɲ	ah-VdPalatalNasal
Name-Nomen	nɔm	n-euh-m
ManMale	ɔmə	euh-m-aah
ToDrink	bɛwrə	b-eh-w-er-aah
ToEat-Manducare	məɲʒa	m-aah-VdPalatalNasal-gzah-ah
ToBite-Morsicare	musəɣa	m-u-s-aah-juh-ah
ToSpit-Exconspuere	əskupi	aah-s-k-u-p-e
ToVomit	bumita	b-u-m-e-t-ah
ToBreathe	rəspira	r-aah-s-p-e-r-ah
ToLaugh	riwrə	r-e-w-er-aah
ToSee	bɛwrə	b-eh-w-er-aah
ToHear	səŋʔi	s-aah-VdApicalDentalNasalStop-t-e
ToKnow-Sapere	səβɛ	s-aah-bb-eh
ToKnow-Cognoscere	kunɛʃə	k-u-n-eh-shh-aah
ToThink	kujda	k-u-jg-d-ah
ToThink-Pensare	pənsa	p-aah-n-s-ah
ToSmell-Sentire	sənti	s-aah-n-t-e
ToSmell-Olere	ulura	u-l-u-er-ah
ToSmell-Fragrare	fləjra	f-l-aah-jg-er-ah
ToFear	temə	t-ay-m-aah
ToSleep	durmi	d-u-r-m-e
ToLive	biwrə	b-e-w-er-aah
ToDie	muri	m-u-er-e
ToKill	nəga	n-aah-g-ah
ToKill-Mactare	məta	m-aah-t-ah
ToKill-Occidere	uksi	u-k-s-e
ToFight	pupa	p-u-VdPalatalNasal-ah
ToFight-Battuere	batrə	b-ah-t-er-aah
ToHunt-Captiare	kəsa	k-aah-s-ah
ToCut	səɣa	s-aah-juh-ah
ToCut-Taliare	təʎa	t-aah-yuh-ah
ToSplit	dibidi	d-e-b-e-d-e
ToSplit-Findere	fəndrə	f-eh-n-d-er-aah
ToSplit-Partire	pərti	p-aah-r-t-e
ToSplit-Separare	səpəra	s-aah-p-aah-er-ah

## Appendix 4 - Word Lists by Language

ToStab	pʉni	p-u-VdPalatalNasal-e
ToScratch	rawrə	r-ah-w-er-aah
ToScratch-Rasare	rəza	r-aah-zz-ah
ToScratch-Rasicare	rəska	r-aah-s-k-ah
ToDig-Cavare	kəba	k-aah-b-ah
ToSwim	nəda	n-aah-d-ah
ToSwim-Navigare	nəbəga	n-aah-b-aah-g-ah
ToFly	bula	b-u-l-ah
ToWalk	kəmina	k-aah-m-e-n-ah
ToCome	bəni	b-aah-n-e
ToLieAsInABed	əstendrə	aah-s-t-ay-n-d-er-aah
ToLieAsInABed-lacere	zawrə	gzah-ah-w-er-aah
ToStand	əsta	aah-s-t-ah
ToStand-Levare	ləba	yuh-aah-b-ah
ToStand-Altiare	əlsa	aah-l-s-ah
ToTurnIntransitive	turna	t-u-r-n-ah
ToTurnIntransitive-Gyrare	zira	gzah-e-er-ah
ToTurnIntransitive-AncestralClass3	bira	b-e-er-ah
ToTurnIntransitive-Torqueare	tərsə	t-euh-r-s-aah
ToFall	kawrə	k-ah-w-r-aah
ToFall-Tumbare	tumba	t-u-m-b-ah
ToGive	dar	d-ah-r
ToGive-Donare	duna	d-u-n-ah
ToHold	təni	t-aah-n-e
ToSqueeze	əspremə	aah-s-p-er-ay-m-aah
ToSqueeze-Serrere	səra	s-aah-r-ah
ToSqueeze-Stringere	əstreŋə	aah-s-t-er-eh-VdPalatalNasal-aah
ToRub	frəga	f-er-aah-g-ah
ToRub-Frictiare	frəsa	f-er-aah-s-ah
ToWash	ləba	yuh-aah-b-ah
ToWipe-Extergere	əstərzi	aah-s-t-aah-r-gzah-e
ToWipe-Exsucare	əfuga	aah-shh-u-g-ah
ToPull	tira	t-e-er-ah
ToPull-Trahare	təwrə	t-er-eh-w-er-aah
ToPush	əmpɛŋə	aah-m-p-eh-VdPalatalNasal-aah
ToThrow	xita	xha-e-t-ah
ToThrow-Lanceare	lənsa	yuh-aah-n-s-ah
ToTie	liya	yuh-e-juh-ah
ToSew	kuzi	k-u-zz-e
ToCount	kumta	k-u-m-t-ah
ToCount-Enumerare	enumera	ay-n-u-m-ay-er-ah
ToSay	di	d-e
ToSing-AncestralClass	kənta	k-aah-n-t-ah
ToPlay-Jiocare	zuga	gzah-u-g-ah
ToFloat	fluktua	f-l-u-k-t-u-ah
ToFlow	flui	f-l-u-e
ToFlow-Colare	kula	k-u-ssha-ah
ToFlow-Excurrere	əskorə	aah-s-k-oh-r-aah
ToFlow-Currere	korə	k-oh-r-aah
ToFreeze	zəla	gzah-aah-l-ah
ToFreeze-Glaciare	gləsa	g-l-aah-s-ah
ToSwell	augmenta	ah-u-j-m-ay-n-t-ah
ToSwell-Inflare	imfla	e-m-f-l-ah
ToSwell-Crescere	kreʃə	k-er-ay-shh-aah
ToBurn-Cremare	krəma	k-r-aah-m-ah
ToBurn-Flammare	flama	f-ssha-ah-m-ah
ToBurn-Incendere	ənsendrə	aah-n-s-ay-n-d-er-aah



## Appendix 4 - Word Lists by Language

All-Totus	tot	t-oh-t
Many	mol	m-oh-l
Many-Tantus	tant	t-ah-n-t
Some	əlqu	aah-l-g-u
Few	pək	p-euh-k
Other	altrə	ah-l-t-er-aah
Big-Grandem	gran	j-r-ah-n
Long-Longum	lonŋ	yuh-oh-nya
Long-Largum	lark	yuh-ah-er-k
Wide-Amplum	amplə	ah-m-p-l-aah
Thick	gras	g-er-ah-s
Thick-Spissum	əspəs	aah-s-p-eh-s
Thick-Grossum	grəs	g-er-euh-s
Heavy	grew	g-er-ay-w
Heavy-Pesant	pəzat	p-aah-zz-ah-t
Small	pətit	p-aah-t-e-t
Short	kurt	k-u-er-t
Short-Brevis	brew	b-er-ay-w
Narrow-Strictus	əstrət	aah-s-t-er-eh-t
Thin	mənut	m-aah-n-u-t
Thin-Delicatus	dəlikat	d-aah-l-e-k-ah-t
Thin-Subtilis	suptil	s-u-p-t-e-l
Cold	fret	f-er-eh-t
Full	płe	p-ssha-eh
New	nɔw	n-euh-w
Old	bɛʌ	b-eh-yuh
Good	bɔn	b-euh-n
Bad	maɪ	m-ah-ssha
Rotten	puðrit	p-u-dd-er-e-t
Dirty	brut	b-er-u-t
Straight	rektə	r-eh-k-t-aah
Round	ruðo	r-u-dd-oh
SharpAsAKnife	əfilat	aah-f-e-l-ah-t
Smooth	ʌis	yuh-e-s
Wet	muʌat	m-u-yuh-ah-t
Dry	sek	s-eh-k
Near	əprɔp	aah-p-er-euh-p
Far	ʌuɪ	yuh-u-VdPalatalNasal
Right-Dextrem	destrə	d-ay-s-t-er-aah
Right-Directus	drət	d-er-eh-t
Left	əskɛrə	aah-s-k-eh-r-aah
Red	ros	r-oh-s
Red-Vermiculus	bərmɛʌ	b-aah-r-m-eh-yuh
Red-Rubeus	rudʒe	r-u-VdPalatoAlveolarSibilant-ay
Green	vɛrt	v-eh-er-t
Yellow-Croceus	grɔk	j-er-euh-k
White	alb	ah-l-b
Black	nɛɣrə	n-eh-juh-er-aah
One	un	u-n
Two-Duos	dos	d-oh-s
Three	trɛs	t-r-eh-s
Four	kwatrə	k-w-ah-t-er-aah
Five	sɪŋk	s-e-nya-k
Here	aki	ah-k-e
There	əʌa	aah-yuh-ah
Who-Qui	ki	k-e
What	kɛ	k-eh

## Appendix 4 - Word Lists by Language

Where-Unde	on	oh-n
When-Quando	kwan	k-w-ah-n
How-Quomodo	kɔm	k-euh-m
Not	no	n-oh
Not-Nec	ni	n-e
At	a	ah
In-In	ən	aah-n
In-Deintus	dins	d-e-n-s
And-Et	i	e
If	si	s-e
Because-Quod	kə	k-aah
Because-Proquid	pərke	p-aah-r-k-eh

## Walloon

Cognate	IPA	Sounds
I	dʒɪ	VdPalatoAlveolarSibilant-NearCloseFrontUnrounded
We	no	n-oh
YouPlural	vos	v-oh-s
YouSingular	ty	t-eeh
Woman	fœm	f-OpenMidNearFrontRounded-m
Woman-Domina	dœm	d-OpenMidNearFrontRounded-m
ManHumanBeing	ɔm	euh-m
Child	ɛfã	eh-f-NasalA
Mother	mɛr	m-ay-VIUvularTrill
Father	pɛ:r	p-Eh-r
Fish-Pescion	pɛhō	p-ch-h-on
Bird-Avicellum	u:hɛ:	U-h-Eh
Dog	ʃɛ	ts-ehn
Louse	pju	p-jg-u
Snake	sʃɛkpɛ	s-jg-eh-rr-p-ehn
Worm	vʃɛr	v-jg-eh-VIUvularTrill
Tree	o:b	O-b
Fruit	fry	f-VIUvularTrill-eeh
Seed-Sementis	simɛs	s-e-m-ehn-s
Seed-Granum	grin	j-r-e-n
Leaf	fɔj	f-euh-jg
Root-Radicina	resɛn	VIUvularTrill-eh-s-eh-n
BarkOfATree-Skortea	skwas	s-k-w-ah-s
Flower	flø:ʁ	f-l-o-rr
Grass	jɛp	jg-eh-p
Skin-Pellis	pja	p-jg-ah
Meat	ʃo:ʁ	ts-O-rr
Blood	sō:g	s-LongCloseMidBackRoundedNasal-j
Bone	ɔ'hɛ:	euh-h-Eh
Egg	u:	U
Horn	kwɛn	k-w-eh-n
Tail	kɔw	k-euh-w
Feather	plɔm	p-l-euh-m
Feather-Penna	pen	p-ay-n
Hair-Capillus	ʃivja	ts-e-v-jg-ah
Head-Testa	ʃɛs	ts-eh-s
Ear	ɔraj	euh-VIUvularTrill-aj_diphthong
Eye	u:j	U-jg
Nose	ne	n-ay
Mouth	bɔk	b-euh-k

## Appendix 4 - Word Lists by Language

Mouth-Gula	gø:j	g-o-jg
Tooth	dē	d-ehn
Fingernail	ōg	on-j
Foot	pi:	p-E
Leg	dʒāb	VdPalatoAlveolarSibilant-NasalA-b
Knee	ŋnə	VdPalatalNasal-VdPalatalNasal-euh
Hand	mē	m-ehn
Wing	el	ay-l
Belly	vē:t	v-LongNasalE-t
Back	də	d-euh
Back-Spatula	spal	s-p-ah-l
Heart	ku:ɤ	k-U-rr
Heart-Anima	ɔ:m	LongOpenMidBackRounded-m
Liver	fø:t	f-o-t
Sun	solo	s-euh-l-euh
Moon	lən	l-uu-n
Star	stø:l	s-t-o-l
Water	ε:w	Eh-w
Rain	plu:ɤ	p-l-U-rr
River-Riparia	rivi:ɤ	r-e-v-E-rr
Lake	lak	l-ah-k
Sea	meɤ	m-ay-rr
Salt	se	s-ay
Stone-Petra	pi:ɤ	p-E-rr
Sand-Sabulum	so:vjō	s-O-v-jg-on
Earth	tɛ:ɤ	t-Eh-rr
Sky	si:ɤ	s-E-rr
Wind	vē	v-ehn
Snow	ni:vaj	n-E-v-aj_diphthong
Fire-Focus	fø:	f-o
Ash	sē:d	s-LongNasalE-d
Mountain-Montanea	mōtəɲ	m-on-t-ah-VdPalatalNasal
Night	nyt	n-eeh-t
Day	dʒu:	VdPalatoAlveolarSibilant-U
Day-Diurnus	dʒu:	VdPalatoAlveolarSibilant-U
Year	ā	NasalA
Name-Nomen	nō	n-on
Tongue	lēu	l-eu_nasalized_diphthong
ToDrink	bø:ɤ	b-o-rr
ToEat-Manducare	maɲi:	m-ah-VdPalatalNasal-E
ToSuck	sysi:	s-eeh-s-E
ToVomit	vo:'mi	v-O-m-e
ToBreathe	ɤespiɤe	rr-eh-s-p-e-rr-ay
ToLaugh	xi:ɤ	rr-E-rr
ToSee	ve'ji:	v-eh-jg-E
ToHear	ɔ'ji:	euh-jg-E
ToKnow-Sapere	savø:r	s-ah-v-o-VIUvularTrill
ToKnow-Cognoscere	kinəh	k-e-n-euh-h
ToThink-Pensare	pēse	p-ehnn-s-ay
ToSmell-Sentire	sēti	s-ehnn-t-e
ToSleep	dwaɤmi	d-w-ah-rr-m-e
ToDie	məri	m-euh-VIUvularTrill-e
ToKill-Tutari	tuwe	t-u-w-ay
ToFight-Battuere	bate	b-ah-t-ay
ToHunt-Captiare	ʃesi:	ts-eh-s-E
ToCut-Taliare	teji:	t-eh-jg-E
ToSplit-Findere	fēt	f-ehnn-t

## Appendix 4 - Word Lists by Language

ToSplit-Partire	pɔ:rti	p-LongOpenMidBackRounded-VIUvularTrill-t-e
ToDig-Cavare	çɑ:vle	sh-aay-v-l-ay
ToSwim-Navigare	nɛdʒi:	n-eh-VdPalatoAlveolarSibilant-E
ToFly	vole	v-euh-l-ay
ToWalk	ʃʊmine	ts-e-m-e-n-ay
ToWalk-Marcher	ma:rtʃi:	m-A-VIUvularTrill-ts-E
ToCome	vini	v-e-n-e
ToLieAsInABed-lacere	dʒere	VdPalatoAlveolarSibilant-ay-r-ay
ToStand	es	eh-s
ToStand-Levare	lɔve	l-aah-v-ay
ToStand-Altiare	hɔ:si:	h-LongOpenMidBackRounded-s-E
ToTurnIntransitive	tu:rne	t-U-r-n-ay
ToTurnIntransitive-AncestralClass3	viɛ	v-e-rr-ay
ToFall	ʃfɛ:r	ts-Eh-VIUvularTrill
ToFall-Tumbare	tume	t-u-m-ay
ToGive-Donare	dine	d-e-n-ay
ToHold	tini	t-e-n-e
ToSqueeze-Serare	sɛre	s-eh-VIUvularTrill-ay
ToSqueeze-Stringere	stringe	s-t-r-e-n-j-ay
ToRub	froj	f-r-oj_diphthong
ToRub-Frictare	fɾote	f-rr-oh-t-ay
ToWash	lave	l-ah-v-ay
ToWipe-Exsucare	suwe	s-u-w-ay
ToPull	tire	t-e-r-ay
ToPull-Pulsare	pu:si:	p-U-s-E
ToThrow	dʒete	VdPalatoAlveolarSibilant-eh-t-ay
ToThrow-Lanceare	lanci:	l-ah-n-tya-E
ToTie	lɔji:	l-euh-jg-E
ToSew	kø:z	k-o-zz
ToCount	kôte	k-on-t-ay
ToSay	di:ɾ	d-E-rr
ToSing-AncestralClass	ʃfãte	ts-NasalA-t-ay
ToPlay-Jiocare	dʒuwe	VdPalatoAlveolarSibilant-u-w-ay
ToFlow-Colare	kɔle	k-euh-l-ay
ToFreeze	dʒale	VdPalatoAlveolarSibilant-ah-l-ay
ToSwell-Inflare	ɛfle	ehn-f-l-ay
ToSwell-Conflare	gõfle	g-on-f-l-ay
ToBurn-Brojan	bɾu:le	b-rr-U-l-ay
All-Totus	tɔ	t-euh
Few	põ	p-on
Other	õt	on-t
Big-Grandem	gɾã	j-rr-NasalA
Long-Longum	lõ	l-on
Thick-Spissum	spe	s-p-eh
Heavy	grav	j-r-ah-v
Small	piti	p-e-t-e
Short	ku:ɾ	k-U-rr
Short-Brevis	bɾɛf	b-rr-ay-f
Narrow-Strictus	stɾø:	s-t-rr-o
Thin	minu	m-e-n-u
Thin-Subtilis	su:ti	s-U-t-e
Cold	fɾø:	f-rr-o
Full	plɛ	p-l-ehn
New	nɔ've	n-euh-v-eh
Old	vi:	v-E
Good	bõ	b-on
Bad	mo:	m-O

## Appendix 4 - Word Lists by Language

Rotten	pu:'ki	p-U-rr-e
Dirty	mo:si:	m-O-s-E
Straight	drø:	d-r-o
Round	rõ	r-on
SharpAsAKnife	kua'hã	k-ohh-ah-h-an
Smooth	lis	l-e-s
Wet	mu'ji:	m-u-jg-E
Dry	seɸ	s-eh-ts
Near	pre	p-r-eh
Far	lõ	l-on
Right-Directus	drø:t	d-r-o-t
Left	go:ɸ	j-O-shh
Red-Rubeus	rɔɸ	r-euh-ts
Green	veɤ	v-eh-rr
Yellow	dʒen	VdPalatoAlveolarSibilant-eh-n
Black	nø:ɤ	n-o-rr
One	õ	on
Two-Duos	dø:	d-o
Three	trø:	t-r-o
Four	kwat	k-w-ah-t
Five	sẽk	s-ehn-k
There	la	l-ah
Who-Qui	ki:	k-E
What	kwe:	k-w-Eh
When-Quando	kwand	k-w-ah-n-d
How-Quomodo	kõmẽ	k-euh-m-ehnn
Not-Nec	nẽ	n-ehn
With-Abhoc	avu	ah-v-u
And-Et	ε	eh
Because-Quod	ki:	k-E

## Friulian

Cognate	IPA	Sounds
I	jo	jg-oh
We	no:	n-O
YouPlural	vo:	v-O
YouSingular	tu	t-u
Woman	femine	f-eh-m-e-n-eh
Woman-Mulier	mui:r	m-u-E-r
Woman-Domina	dõne	d-euh-n-ay
ManHumanBeing	õm	euh-m
Wife-Mulier	mui:r	m-u-E-r
Husband	mari:t	m-ah-r-E-t
Husband-Sponsus	spo:s	s-p-O-s
Mother	mari	m-ah-r-e
Father	pari	p-ah-r-e
Animal	nema:l	n-ay-m-A-l
Animal-Bestia	bis	b-e-s
Fish-Piskem	pēs	p-eh-s
Bird-Avicellum	uɸɸel	u-ts-jg-eh-l
Dog	can	tya-ah-n
Louse	pedoli	p-ay-d-oh-l-e
Snake	sarpint	s-ah-r-p-e-n-t
Worm	vjer	v-jg-eh-r
Tree	arbul	ah-r-b-u-l

## Appendix 4 - Word Lists by Language

Forest	selve	s-eh-l-v-ay
Stick	pa:l	p-A-l
Fruit	frut	f-r-u-t
Seed-Sementis	semenʃe	s-ay-m-eh-n-ts-eh
Seed-Granum	gran	j-r-ah-n
Leaf	fwee	f-w-ay-ay
BarkOfATree-Skortea	skwartse	s-k-w-ah-r-VIAlveolarSibilantAffricate-ay
Flower	flo:r	f-l-O-r
Grass	jarbe	jg-ah-r-b-ay
Skin-Pellis	pjel	p-jg-eh-l
Meat	ca:r	tya-A-r
Blood	saŋk	s-ah-nya-k
Bone	'vwəs	v-w-eh-s
Egg	u:f	U-f
Horn	'kwa:r	k-w-A-r
Tail	kode	k-euh-d-eh
Feather	plume	p-l-u-m-eh
Feather-Penna	pene	p-eh-n-ay
Hair	pe:l	p-ai-l
Hair-Capillus	cavej	tya-ah-v-ej_diphthong
Head	ca:f	tya-A-f
Head-Testa	teste	t-eh-s-t-ay
Ear	orele	oh-r-ay-l-ay
Eye	voli	v-oh-l-e
Nose	na:s	n-A-s
Mouth	bœce	b-euh-tya-eh
Mouth-Gula	gole	j-euh-l-ay
Tooth	'dint	d-e-n-t
Fingernail	'ɔŋgule	euh-nya-j-u-l-eh
Foot	pi:t	p-E-t
Leg	'jaŋ <sup>w</sup> be	VdPalatalStop-ah-nywa-b-ay
Knee	dʒe'noli	VdPalatoAlveolarSibilant-ay-n-oh-l-e
Hand	maŋ	m-ah-nya
Wing	ale	ah-l-ay
Belly	pantse	p-ah-n-VIAlveolarSibilantAffricate-ay
Neck	kwel	k-w-eh-l
Back-Spatula	spale	s-p-ah-l-eh
Breast	sen	s-ay-n
Breast-Pectus	pet	p-eh-t
Heart	ku:r	k-U-r
Heart-Anima	anime	ah-n-e-m-ay
Liver	fija:t	f-e-jg-A-t
Sun-Soliculus	soreli	s-oh-r-ay-l-e
Moon	lune	l-u-n-ay
Star	stɛle	s-t-eh-l-ay
Water	age	ah-j-ay
Rain	ploje	p-l-oh-jg-ay
River	flum	f-l-u-m
Lake	la:t	l-A-t
Sea	ma:r	m-A-r
Salt	sa:l	s-A-l
Stone-Petra	pje:re	p-jg-ai-r-ay
Sand-Sabulum	savalon	s-ah-v-ah-l-euh-n
Dust	pɔlvar	p-euh-l-v-ah-r
Earth	tjere	t-jg-eh-r-ay
Cloud-Secondary	nu:l	n-U-l
Fog-Fumata	fumate	f-u-m-ah-t-ay

## Appendix 4 - Word Lists by Language

Sky	ʃi:l	ts-E-l
Wind	'vint	v-e-n-t
Snow	ne:f	n-ai-f
Smoke	fum	f-u-m
Fire-Focus	fu:k	f-U-k
Ash-Cinisia	ʃɪnize	ts-e-n-e-zz-eh
Mountain	mɒnt	m-euh-n-t
Mountain-Montanea	mɒntape	m-euh-n-t-ah-VdPalatalNasal-ay
Night	ɲɔt	VdPalatalNasal-euh-t
Day	di	d-e
Day-Diurnata	ðɔrnade	VdPalatoAlveolarAffricate-oh-r-n-ah-d-ay
Year	aɲ	ah-nya
Name-Nomen	nɔɲ	n-euh-nya
Tongue	'lenge	l-eh-n-j-eh
ToDrink	bevi	b-ay-v-e
ToEat-Manducare	manja:	m-ah-nya-VdPalatalStop-A
ToBite	mwardi	m-w-ah-r-d-e
ToSuck	cuca:	tya-u-tya-A
ToSpit-Sputare	spuda:	s-p-u-d-A
ToVomit	gomita:	j-oh-m-e-t-A
ToBreathe	respira:	r-ay-s-p-e-r-A
ToLaugh	'ridi	r-e-d-e
ToSee	'vjodi	v-jg-oh-d-e
ToHear	sin'ti	s-e-n-t-e
ToKnow-Sapere	save:	s-ah-v-ai
ToKnow-Cognoscere	koposi	k-oh-VdPalatalNasal-oh-s-e
ToThink-Pensare	peɲsa:	p-ay-nya-s-A
ToSmell-Sentire	sinti:	s-e-n-t-E
ToFear	temi	t-ay-m-e
ToFear-Tremere	trima:	t-r-e-m-A
ToSleep	durmi:	d-u-r-m-E
ToLive	vivi	v-e-v-e
ToDie	muri:	m-u-r-E
ToKill-Mactare	maʃa:	m-ah-ts-A
ToFight-Battuere	bati	b-ah-t-e
ToHunt-Captiare	caʃa:	tya-ah-ts-A
ToHit	pulsa:	p-u-l-s-A
ToCut	sea:	s-ay-A
ToCut-Excurtare	skurta:	s-k-u-r-t-A
ToCut-Taliare	taja:	t-ah-jg-A
ToSplit	dividi	d-e-v-e-d-e
ToSplit-Partire	parti:	p-ah-r-t-E
ToSplit-Separare	separa:	s-ay-p-ah-r-A
ToScratch	rada:	r-ah-d-A
ToScratch-Rasare	rasa:	r-ah-s-A
ToDig-Cavare	java:	VdPalatalStop-ah-v-A
ToDig-Excavare	zjava:	zz-VdPalatalStop-ah-v-A
ToSwim	nada:	n-ah-d-A
ToSwim-Navigare	naviga:	n-ah-v-e-j-A
ToFly-Exvolare	zvola:	zz-v-oh-l-A
ToWalk	camina:	tya-ah-m-e-n-A
ToCome	viɲi:	v-e-VdPalatalNasal-E
ToLieAsInABed-lacere	jesi	jg-ay-s-e
ToSit-Sedentare	senta:	s-ay-n-t-A
ToStand	sta:	s-t-A
ToStand-Levare	leva:	l-ay-v-A
ToStand-Altiare	altʃa:	ah-l-t-shh-A

## Appendix 4 - Word Lists by Language

ToTurnIntransitive	torna:	t-oh-r-n-A
ToTurnIntransitive-Gyrate	dʒira:	VdPalatoAlveolarSibilant-e-r-A
ToTurnIntransitive-AncestralClass3	dʒira:	VdPalatoAlveolarSibilant-e-r-A
ToFall	fʃjade	ts-jg-ah-d-ay
ToGive	da:	d-A
ToHold	tinji	t-e-n-jg-e
ToSqueeze	esprimi	ay-s-p-r-e-m-e
ToSqueeze-Stringere	strengi:	s-t-r-eh-n-j-E
ToRub	frea	f-r-ay-ah
ToWash	lava:	l-ah-v-A
ToWipe-Exsucare	suja:	s-u-jg-A
ToPull	tira:	t-e-r-A
ToPull-Pulsare	pulsa:	p-u-l-s-A
ToPull-Trahere	traj	t-r-aj_diphthong
ToThrow-Lanceare	lanʃa:	l-ah-n-ts-A
ToTie	lea:	l-ay-A
ToSew	kuzi	k-u-zz-e
ToCount	konta:	k-oh-n-t-A
ToSay	di:	d-E
ToSing-AncestralClass	canta:	tya-ah-n-t-A
ToPlay-Jiocare	dʒuja:	VdPalatoAlveolarSibilant-u-jg-A
ToFlow-Excurrere	skori:	s-k-oh-r-E
ToFlow-Currere	kori	k-oh-r-e
ToFreeze-Glaciare	glafʃa:	j-l-ah-ts-A
ToSwell-Inflare	enfla:	ay-n-f-l-A
ToSwell-Conflare	zɡlonfa:	zz-j-l-oh-nya-f-A
ToBurn-Brojan	bruza:	b-r-u-zz-A
All-Totus	dut	d-u-t
Many	molc	m-oh-l-tya
Many-Tantus	tanc	t-ah-n-tya
Few	po:k	p-O-k
Other	altri	ah-l-t-r-e
Big-Grandem	grant	j-r-ah-n-t
Long-Longum	lunk	l-u-n-k
Long-Largum	lark	l-ah-r-k
Thick	gras	j-r-ah-s
Thick-Grossum	grwes	j-r-w-eh-s
Heavy	grevi	j-r-eh-v-e
Heavy-Pesant	pezant	p-ay-zz-ah-n-t
Small-Pitulus	pitʃul	p-e-ts-u-l
Short	kurt	k-u-r-t
Narrow-Strictus	stret	s-t-r-eh-t
Thin	minu:t	m-e-n-U-t
Thin-Subtilis	suti:l	s-u-t-E-l
Cold	'fre:t	f-r-ai-t
Full	'pleŋ	p-l-eh-nya
New	'nu:f	VdPalatalNasal-U-f
Old	'vjeri	v-jg-ay-r-e
Good	bɔŋ	b-euh-nya
Bad	trist	t-r-e-s-t
Rotten	'frajt	f-r-aj_diphthong-t
Dirty	spɔrk	s-p-euh-r-k
Straight	'dret	d-r-eh-t
Round	ta'rɔnt	t-ah-r-euh-n-t
SharpAsAKnife	u'ʃa:t	u-ts-A-t
Smooth	slis	s-l-e-s
Wet	ba'pa:t	b-ah-VdPalatalNasal-A-t



## Appendix 4 - Word Lists by Language

Dry	sek	s-eh-k
Near	'dɔŋɐ	d-euh-nya-VdPalatalStop-eh
Far	lon'taŋ	l-oh-n-t-ah-nya
Right-Directus	'drɛt	d-r-eh-t
Left	'ʃaŋ <sup>w</sup> p	ts-ah-nywa-p
Red	rɔs	r-euh-s
Green	vɛrt	v-eh-r-t
Black	neri	n-ay-r-e
One	uŋ	u-nya
Two-Duos	doj	d-oj_diphthong
Three	'tre:	t-r-ai
Four	kwatri	k-w-ah-t-r-e
Five	'ʃiŋk	ts-e-nya-k
Here	aki	ah-k-e
Who-Qui	kwi	k-w-e
What	ʃɛ	ts-ay
When-Quando	kwant	k-w-ah-n-t
How-Quomodo	ʃɛmu:t	ts-ay-m-U-t
Not	no	n-oh
And-Et	e	ay
Because-Quod	ke	k-ay

## Romanian

Cognate	IPA	Sounds
I	jew	jg-ay-w
We	noj	n-oj_diphthong
YouPlural	voj	v-oj_diphthong
YouSingular	tu	t-u
Woman	femeje	f-ay-m-ay-jg-ay
Woman-Mulier	mujere	m-u-jg-ay-r-ay
Woman-Domina	doamna	d-midback_diphthong_romanian-m-n-aah
ManHumanBeing	om	oh-m
Wife-Mulier	mujere	m-u-jg-ay-r-ay
Husband	mărit	m-aah-r-e-t
Husband-Socius	sots	s-oh-VlAlveolarSibilantAffricate
Father-Tata	tata	t-ah-t-aah
Animal	nămăje	n-aah-m-ah-jg-ay
Fish-Piskem	pește	p-ay-shh-t-ay
Bird-Passerem	pasăre	p-ah-s-aah-er-ay
Dog	kijne	k-ij_diphthong-n-ay
Louse	păduke	p-aah-d-u-k-jg-ay
Snake	șarpe	shh-ah-er-p-ay
Snake-Serpens	șarpe	shh-ah-er-p-ay
Worm	vîrme	v-jg-ay-r-m-ay
Tree	arbore	ah-r-b-oh-r-ay
Stick	par	p-ah-er
Fruit	fruct	f-r-u-k-t
Seed-Sementis	sămînță	s-aah-m-eee-n-ts-aah
Seed-Granum	grîu	g-r-iw_diphthong
Leaf	foaje	f-midback_diphthong_romanian-jg-ay
Leaf-Frondea	frunză	f-er-u-n-zz-aah
Root-Radicina	radăcină	r-aah-d-aah-ts-e-n-aah
BarkOfATree-Skortea	skoartă	s-k-midback_diphthong_romanian-er-VlAlveolarSibilantAffricate-aah
Flower	flăure	f-l-midback_diphthong_romanian-er-ay

## Appendix 4 - Word Lists by Language

Grass	jarbə	jg-ah-er-b-aah
Skin-Pellis	pjele	p-jg-ay-l-ay
Meat	karne	k-ah-er-n-ay
Blood	sindʒe	s-eee-n-VdPalatoAlveolarSibilant-ay
Bone	os	oh-s
Egg	ow	oh-w
Horn	korn	k-oh-er-n
Tail	coada	tya-midback_diphthong_romanian-d-aah
Feather-Penna	panə	p-ah-n-aah
Hair	pər	p-aah-er
Head	kap	k-ah-p
Head-Testa	tsəstə	VlAlveolarSibilantAffricate-midfront_diphthong_romanian-s-t-aah
Ear	ureke	u-r-ay-k-ay
Eye	oki	oh-kpalatal
Nose	nas	n-ah-s
Mouth	bukə	b-u-k-aah
Mouth-Gula	gurə	j-u-er-aah
Tooth	dinte	d-e-n-t-ay
Fingernail	ungje	u-n-j-jg-ay
Foot	piʃor	p-e-ts-j-oh-r
Leg	piʃor	p-e-ts-j-oh-er
Knee	dʒenunkç	VdPalatoAlveolarSibilant-ay-n-u-n-k-sh
Hand	minə	m-eee-n-aah
Belly	burtə	b-u-er-t-aah
Back	do	d-oh
Back-Spatula	spate	s-p-ah-t-ay
Breast	san	s-ah-n
Breast-Pectus	pjept	p-jg-ay-p-t
Heart-Anima	inimə	e-n-e-m-aah
Liver	fikat	f-e-k-ah-t
Sun	soare	s-midback_diphthong_romanian-er-ay
Moon	lunə	l-u-n-aah
Star	stea	s-t-midfront_diphthong_romanian
Water	apə	ah-p-aah
Rain	ploaje	p-l-midback_diphthong_romanian-jg-ay
River-Rivus	riw	r-eee-w
Lake	lak	l-ah-k
Sea	mare	m-ah-r-ay
Salt	sare	s-ah-r-ay
Stone-Petra	pjatrə	p-jg-ah-t-er-aah
Sand	arinə	ah-r-e-n-aah
Dust	pulbere	p-u-l-b-ay-r-ay
Earth	tsarə	VlAlveolarSibilantAffricate-ah-r-aah
Cloud-Secondary	nor	n-oh-r
Fog-Nebula	negurə	n-ay-g-u-r-aah
Fog-Caecia	ʃeafə	ts-midfront_diphthong_romanian-ts-aah
Sky	ʃer	ts-ay-er
Wind	vint	v-eee-n-t
Snow	neă	n-midfront_diphthong_romanian
Ice	dʒer	VdPalatoAlveolarSibilant-ay-r
Smoke	fum	f-u-m
Fire-Focus	fok	f-oh-k
Ash-Cinisia	ʃenuʃə	ts-ay-n-u-shh-aah
Mountain	munte	m-u-n-t-eh
Night	noapte	n-midback_diphthong_romanian-p-t-ay
Day	zi	zz-e

## Appendix 4 - Word Lists by Language

Year	an	ah-n
Name-Nomen	nume	n-u-m-ay
ManMale	bərbat	b-aah-er-b-ah-t
Tongue	limbă	l-e-m-b-aah
ToDrink	bɛa	b-midfront_diphthong_romanian
ToEat-Manducare	minka	m-eee-n-k-ah
ToBite-Morsicare	murseka	m-u-r-s-ay-k-ah
ToSuck	sudȝe	s-u-VdPalatoAlveolarSibilant-ay
ToSpit-Exconspuere	skujpa	s-k-u-jg-p-ah
ToVomit	avomita	ah-v-oh-m-e-t-ah
ToBreathe	arespira	ah-er-ay-s-p-e-er-ah
ToLaugh	aride	ah-er-eee-d-ay
ToSee	avedea	ah-v-ay-d-midfront_diphthong_romanian
ToHear	awzi	ah-w-zz-e
ToKnow	ŷti	shh-t-e
ToKnow-Cognoscere	kunoaŷte	k-u-n-midback_diphthong_romanian-shh-t-ay
ToThink	kudȝeta	k-u-VdPalatoAlveolarSibilant-ay-t-ah
ToThink-Pensare	pəsa	p-aah-s-ah
ToSmell-Sentire	simtŷi	s-e-m-VlAlveolarAffricate-e
ToFear	teme	t-ay-m-ay
ToSleep	dormi	d-oh-r-m-e
ToLive	via	v-e-ah
ToDie	muri	m-u-r-e
ToKill	neka	n-ay-k-ah
ToKill-Occidere	uŷŷide	u-ts-e-d-ay
ToFight-Battuere	bate	b-ah-t-ay
ToHit	pulsa	p-u-l-s-ah
ToCut-Excurtare	skurta	s-k-u-r-t-ah
ToCut-Taliare	tăja	t-aah-jg-ah
ToSplit	divide	d-e-v-e-d-ay
ToSplit-Separare	separa	s-ay-p-ah-r-ah
ToStab	pundȝe	p-u-n-VdPalatoAlveolarSibilant-ay
ToScratch	rade	r-ah-d-ay
ToSwim-Navigare	naviga	n-ah-v-e-g-ah
ToFly-Exvolare	zbura	zz-b-u-er-ah
ToWalk-Mergere	merdȝe	m-ay-r-VdPalatoAlveolarSibilant-ay
ToCome	veni	v-ay-n-e
ToLieAsInABed	ekstinde	ay-k-s-t-e-n-d-ay
ToLieAsInABed-lacere	zəŷŷea	zz-aah-ts-midfront_diphthong_romanian
ToSit	ŷedeă	shh-ay-d-midfront_diphthong_romanian
ToStand	sta	s-t-ah
ToStand-Levare	lua	l-u-ah
ToTurnIntransitive	turna	t-u-r-n-ah
ToTurnIntransitive-Torquere	toarŷŷe	t-midback_diphthong_romanian-r-ts-ay
ToFall	kădeă	k-aah-d-midfront_diphthong_romanian
ToGive	da	d-ah
ToHold	ŷtine	VlAlveolarSibilantAffricate-e-n-ay
ToSqueeze	skreme	s-k-r-ay-m-ay
ToSqueeze-Stringere	strindȝe	s-t-r-eee-n-VdPalatoAlveolarSibilant-ay
ToRub	freka	f-r-ay-k-ah
ToWash	la	l-ah
ToWipe-Extergere	ŷterdȝe	shh-t-ay-r-VdPalatoAlveolarSibilant-ay
ToWipe-Exsucare	uska	u-s-k-ah
ToPull-Pulsare	pulsa	p-u-l-s-ah
ToPull-Trahere	tradȝe	t-r-ah-VdPalatoAlveolarSibilant-ay
ToPush	impindȝe	eee-m-p-e-n-VdPalatoAlveolarSibilant-ay
ToThrow-Eruncare	aruŷka	ah-er-u-nya-k-ah

## Appendix 4 - Word Lists by Language

ToTie	lega	l-ay-j-ah
ToSew	coase	tya-midback_diphthong_romanian-s-ay
ToCount-Enumerare	numara	n-u-m-ah-r-ah
ToSay	ziŧe	zz-e-ts-ay
ToSay-Exponere	spune	s-p-u-n-ay
ToSing-AncestralClass	kinta	k-eee-n-t-ah
ToPlay-Jiocare	zuka	gzah-u-k-ah
ToFloat	fluctua	f-l-u-tya-t-u-ah
ToFlow-Excurrere	skurdze	s-k-u-er-VdPalatoAlveolarSibilant-ay
ToFlow-Currere	kurdze	k-u-er-VdPalatoAlveolarSibilant-ay
ToFreeze-Inglaciare	ingetsa	eee-n-j-ay-VlAlveolarSibilantAffricate-ah
ToSwell-Inflare	umfla	u-m-f-l-ah
ToSwell-Crescere	krefte	k-er-ay-shh-t-ay
ToBurn-Ardere	arde	ah-er-d-ay
ToBurn-Incendere	inŧindze	eee-n-ts-e-n-d-gzah-ay
ToBurn-AncestralClass8	ustura	u-s-t-u-r-ah
All-Totus	tot	t-oh-t
Many	mult	m-u-l-t
Other	alt	ah-l-t
Big-Majjorem	mare	m-ah-er-ay
Long-Longum	lung	l-u-n-j
Long-Largum	larg	l-ah-r-j
Wide	lat	l-ah-t
Thick	gras	g-r-ah-s
Thick-Grossum	gros	j-r-oh-s
Heavy	grew	j-er-ay-w
Small-Pittinus	putsin	p-u-VlAlveolarSibilantAffricate-e-n
Narrow	ingust	eee-nya-j-u-s-t
Narrow-Strictus	strimt	s-t-r-eee-m-t
Thin	morunt	m-aah-r-u-n-t
Thin-Subtilis	subtsire	s-u-b-VlAlveolarSibilantAffricate-e-r-ay
Cold	refe	er-ay-ts-ay
Full	plin	p-l-e-n
New	now	n-oh-w
Old	vekç	v-ay-k-sh
Good	bun	b-u-n
Bad	rəw	er-aah-w
Rotten	putred	p-u-t-er-ay-d
Dirty	murdar	m-u-er-d-ah-er
Straight	drept	d-er-ay-p-t
Round	rotund	er-oh-t-u-n-d
SharpAsAKnife	askutsit	ah-s-k-u-t-s-e-t
Smooth	neted	n-ay-t-ay-d
Wet	ud	u-d
Dry	sek	s-ay-k
Near	aproape	ah-p-er-midback_diphthong_romanian-p-ay
Far	departe	d-ay-p-ah-er-t-ay
Right-Directus	drept	d-er-ay-p-t
Left	sting	s-t-eee-nya-j
Red	roŧu	er-oh-shh-u
Red-Rubeus	rojb	r-oj_diphthong-b
Green	verde	v-ay-er-d-ay
Yellow	galben	g-ah-l-b-ay-n
White	alb	ah-l-b
Black	negru	n-ay-g-er-u
One	unu	u-n-u
Two-Duos	doj	d-oj_diphthong

## Appendix 4 - Word Lists by Language

Two-Duae	dowə	d-oh-w-aah
Three	trej	t-r-ej_diphthong
Four	patru	p-ah-t-r-u
Five	ʃiŋʃ	ts-e-n-ts
There	la	l-ah
Who-Quem	ʃine	ts-e-n-ay
What	ʃe	ts-ay
Where-Ubi	juo	jg-u-oh
Where-Unde	unde	u-n-d-ay
When-Quando	kind	k-eee-n-d
How-Quomodo	kum	k-u-m
Not	nu	n-u
In-In	in	eee-n
With-Cum	ku	k-u
And-Et	e	ay
And-Si	ʃi	shh-e
If	sə	s-aah
Because-Quod	kə	k-aah

## Appendix 5 - Segment Groups

### Pulmonic Consonants

Manner	Bilabial	Labial-Velar	Labio-Dental	Linguo-Labial	Dental	Alveolar	Post-Alveolar	Retroflex	Palatal	Velar	Uvular	Pharyngeal-Epiglottal	Glottal
Nasal	m					n			ɲ	ŋ			
Stop	p b	k <sup>w</sup> g <sup>w</sup>				t d			k <sup>j</sup> ʃ	k g			
Sibilant, Fricative						s z	ʃ ʒ						
Fricative	β		f v		θ ð				ç ʝ	x ɣ	ʁ		h
Approximant								ɻ	j				
Tap/Flap						r							
Trill						r					R		
Lateral, Fricative													
Lateral, Approximant						l			ʎ				
Lateral, Tap/Flap													

Shaded areas denote articulations judged to be impossible. Where symbols appear in pairs, the one to the right represents a modally voiced consonant.

### Non-Pulmonic Consonants

Manner	Bilabial	Labio-Dental	Velar	Uvular	Pharyngeal-Epiglottal
Ejective, Stop					
Ejective, Fricative					
Ejective, Lateral, Fricative					
Tenuis, Click					
Nasal, Click					
Tenuis, Lateral, Click					
Implosive					

Shaded areas denote articulations judged to be impossible. Where symbols appear in pairs, the one to the right represents a modally voiced consonant.

## Appendix 5 - Segment Groups

### Vowels

	Front	Near-Front	Central	Near-Back	Back
Close	i • y		ɨ		u • ʊ
Near-close		ɪ		ʊ	
Close-mid			ə		o • ɔ(w)
Mid					
Open-mid		œ • ɛ			ɔ
Near-open			ɐ		
Open		a	ɨj • ɨw		ɑ

Where symbols appear in pairs, the one to the right represents a rounded vowel.

### Long Vowels

	Front	Near-Front	Central	Near-Back	Back
Close	iː				uː
Mid	eː				oː
Open-mid		ɛː			ɔː
Open	øː		aː		ɑː

### Pulmonic Affricates

Manner	Bilabial	Labio-Dental	Alveolar	Alveolo-Palatal	Palato-Alveolar	Velar	Uvular	Pharyngeal-Epiglottal	Glottal
Sibilant			ts	ʈʂ	tʃ				
Non-Sibilant									
Lateral									

Shaded areas denote articulations judged to be impossible.

### Ejective Affricates

Manner	Bilabial	Labio-Dental	Pharyngeal-Epiglottal	Glottal
Central				
Lateral				

Shaded areas denote articulations judged to be impossible.

## Appendix 5 - Segment Groups

### Other Segments

<b>e</b> Close-mid Front Vocoid Vowel Continuant	<b>g</b> Velar Voiced Pulmonic Stop Occlusive
<b>oː</b> Mid Back Rounded Vocoid Long Vowel Continuant	<b>ʒ</b> Post-Alveolar Voiced Pulmonic Sibilant Fricative Strident Obstruent Continuant
<b>ə</b> Close-mid Central Vowel	<b>j</b> Palatal Voiced Pulmonic Fricative Obstruent Continuant
<b>o</b> Close-mid Back Rounded Vocoid Vowel Continuant	<b>i</b> Close Front Vocoid Vowel Continuant
<b>w</b> Labial-Velar Vocoid Semivowel Voiced Approximant Continuant	<b>ɔ</b> Open-mid Back Rounded Vocoid Vowel Continuant
<b>dʒ</b> Palato-Alveolar Voiced Sibilant Affricate	<b>ɪ</b> Near-close Near-Front Vowel
<b>j</b> Palatal Vocoid Semivowel Voiced Pulmonic Approximant Continuant	<b>n</b> Alveolar Voiced Pulmonic Nasal Occlusive
<b>s</b> Alveolar Pulmonic Sibilant Fricative Strident Obstruent Continuant	<b>u</b> Close Back Rounded Vocoid Vowel Continuant
<b>ʃ</b> Post-Alveolar Pulmonic Sibilant Fricative Strident Obstruent Continuant	<b>oj</b> Mid Front Vowel Diphthong
<b>v</b> Labio-Dental Voiced Pulmonic Fricative Strident Obstruent Continuant	<b>b</b> Bilabial Voiced Pulmonic Stop Occlusive
<b>iː</b> Close Front Vocoid Long Vowel Continuant	<b>ʌ</b> Palatal Vocoid Voiced Pulmonic Lateral Approximant Rhotic Liquid
<b>l</b> Alveolar Vocoid Voiced Pulmonic Lateral Approximant Rhotic Liquid	<b>r</b> Alveolar Voiced Pulmonic Trill Rhotic Vibrant Liquid
<b>ɪ</b> Close Central Vowel	<b>h</b> Glottal Pulmonic Fricative
<b>k</b> Velar Pulmonic Stop Occlusive	<b>t</b> Alveolar Pulmonic Stop Occlusive
<b>a</b> Open Near-Front Vocoid Vowel Continuant	<b>ɐ</b> Near-open Central Rounded Vowel
<b>uː</b> Close Back Rounded Long Vowel	<b>y</b> Close Front Rounded Vocoid Vowel Continuant
<b>d</b> Alveolar Voiced Pulmonic Stop Occlusive	<b>f</b> Labio-Dental Pulmonic Fricative Strident Obstruent Continuant
<b>eː</b> Mid Front Vocoid Long Vowel Continuant	<b>m</b> Bilabial Voiced Pulmonic Nasal Occlusive
<b>ɾ</b> Alveolar Voiced Pulmonic Tap/Flap Rhotic Vibrant Liquid	<b>œ</b> Open-mid Near-Front Rounded Vocoid Vowel Continuant
<b>ɛ</b> Open-mid Near-Front Vocoid Vowel Continuant	<b>x</b> Velar Pulmonic Fricative Obstruent Continuant
<b>ʁ</b> Uvular Voiced Pulmonic Fricative Rhotic Strident Obstruent Continuant Liquid	<b>ɲ</b> Palatal Voiced Pulmonic Nasal Occlusive
<b>o</b> Mid Front Vowel Diphthong	<b>ẽj</b> Mid Front Nasal Vowel Diphthong
<b>a</b>	<b>ã</b> Near-close Back Nasal Vowel
<b>ɔ̃</b> Open-mid Back Rounded Nasal Vowel	<b>ẽ</b> Near-open Central Rounded Nasal Vowel
<b>ĩ</b> Close Front Nasal Vowel	



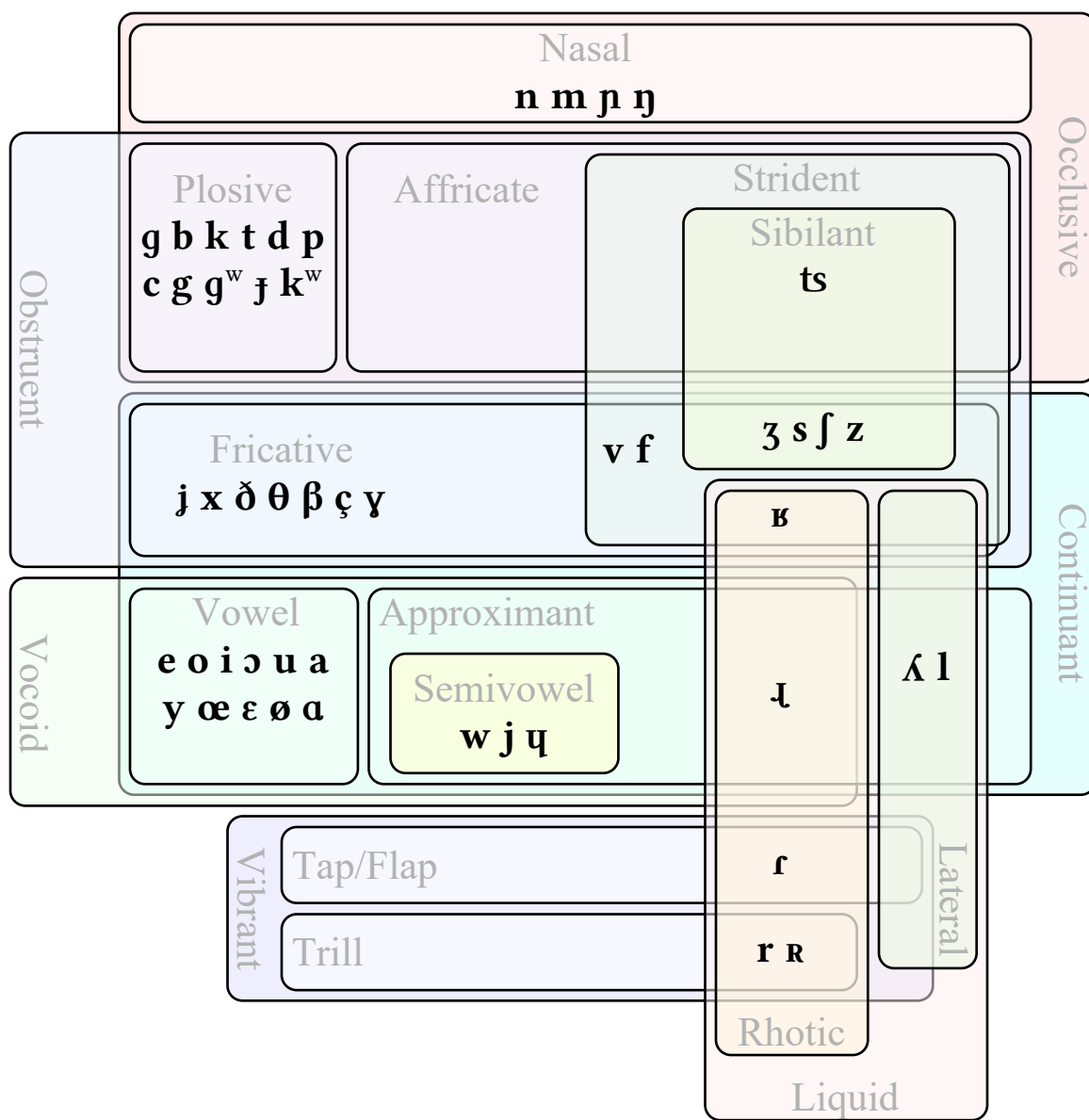
## Appendix 5 - Segment Groups

<b>ʈʃ</b> Palato-Alveolar Pulmonic Sibilant Affricate	<b>p</b> Bilabial Pulmonic Stop Occlusive
<b>z</b> Alveolar Voiced Pulmonic Sibilant Fricative Strident Obstruent Continuant	<b>ð</b> Dental Voiced Pulmonic Fricative Obstruent Continuant
<b>ʈʂ</b> Alveolar Pulmonic Sibilant Affricate Occlusive Strident	<b>aː</b> Open Central Vocoid Long Vowel Continuant
<b>ẽĩ</b> Mid Front Nasal Vowel Diphthong	<b>ʀ</b> Uvular Pulmonic Trill Rhotic Vibrant Liquid
<b>aj</b> Mid Front Vowel Diphthong	<b>ɛː</b> Open-mid Near-Front Vocoid Long Vowel Continuant
<b>θ</b> Dental Pulmonic Fricative Obstruent Continuant	<b>ej</b> Mid Front Vowel Diphthong
<b>ɛj</b> Mid Front Vowel Diphthong	<b>õ</b> Close-mid Back Rounded Nasal Vowel
<b>ẽ</b> Open-mid Near-Front Nasal Vowel	<b>ẽ</b> Mid Front Nasal Vowel Diphthong
<b>ẽ</b> Close Back Nasal Vowel	<b>Ẃ</b>
<b>ij</b> Open Central Vowel Diphthong	<b>c</b> Palatal Pulmonic Stop Occlusive
<b>ɭ</b> Alveolar Voiced Velarized Pulmonic Lateral Approximant	<b>β</b> Bilabial Voiced Pulmonic Fricative Obstruent Continuant
<b>g</b> Velar Voiced Pulmonic Stop Occlusive	<b>ɥ</b> Labial-Palatal Vocoid Semivowel Voiced Approximant Continuant
<b>dz</b> Alveolar Voiced Sibilant Affricate	<b>i</b> Open Central Vowel Diphthong
<b>g</b> Labial-Velar Voiced Pulmonic Stop Occlusive	<b>w</b>
<b>õː</b> Close-mid Back Rounded Long Nasal Vowel	<b>øː</b> Open Front Rounded Vocoid Long Vowel
<b>ø</b> Close-mid Front Rounded Vocoid Vowel Continuant	<b>ŋ</b> Velar Voiced Pulmonic Nasal Occlusive
<b>kʲ</b> Palatal Pulmonic Stop	<b>a</b> Mid Front Vowel Diphthong
<b>ʃ</b> Palatal Voiced Pulmonic Stop Occlusive	<b>u</b>
<b>kː</b> Velar Velarized Pulmonic	<b>e</b> Mid Front Vowel Diphthong
<b>y</b> Velar Voiced Pulmonic Fricative Obstruent Continuant	<b>a</b>
	<b>ʈʃʲ</b> Alveolo-Palatal Pulmonic Sibilant Affricate Palatalized
	<b>ŋ</b> Labial Voiced Pulmonic Nasal Stop
	<b>ç</b> Palatal Pulmonic Fricative Obstruent Continuant
	<b>ẽː</b> Close Back Long Nasal Vowel

## Appendix 5 - Segment Groups

ɑ	Open Back Vocoid Vowel Continuant	ɔ:	Open-mid Back Rounded Vocoid Long Vowel Continuant
ɛj	Mid Front Vowel Diphthong	k	
		w	Labial-Velar Pulmonic Stop Occlusive
ẽ		o(	
	Mid Front Nasal Vowel Diphthong	w	Close-mid Back Rounded Vowel
u		)	
n̥	Dental Pulmonic Nasal Stop	tʃ	Alveolo-Palatal Pulmonic Sibilant Affricate
ʈʂ	Alveolar Affricate	ũ	Open Back Nasal Vowel
ɭ	Retroflex Vocoid Voiced Pulmonic Approximant Rhotic	ɑ:	Open Back Long Vowel
ɭ	Liquid	œ̃	Open-mid Near-Front Rounded Nasal Vowel Diphthong
ʝ	Palatal Nasal Approximant	t:	Dental Pulmonic
d:	Alveolar Voiced Stop	ã	Near-open Central Nasal Vowel
u	Close Back Rounded Vowel	ʊ	Near-close Near-Back Rounded Vowel
e	Close-mid Front Vowel		

## Appendix 6 - Euler Feature Diagram



## Appendix 7 - International Phonetic Alphabet

### IPA Segments

ẽ	θ	β	ʈʃ
1EBD Close Back Nasal Vowel	03B8 Dental Pulmonic Fricative Obstruent Continuant	03B2 Bilabial Voiced Pulmonic Fricative Obstruent Continuant	02A7 Palato-Alveolar Pulmonic Sibilant Affricate
ʈʂ	ɖʒ	ɖʒ	ɟ
02A6 Alveolar Pulmonic Sibilant Affricate Occlusive Strident	02A4 Palato-Alveolar Voiced Sibilant Affricate	02A3 Alveolar Voiced Sibilant Affricate	029D Palatal Voiced Pulmonic Fricative Obstruent Continuant
ʒ	ʎ	ʊ	ʃ
0292 Post-Alveolar Voiced Pulmonic Sibilant Fricative Strident Obstruent Continuant	028E Palatal Vocoid Voiced Pulmonic Lateral Approximant Rhotic Liquid	028A Near-close Near-Back Rounded Vowel	0283 Post-Alveolar Pulmonic Sibilant Fricative Strident Obstruent Continuant
ʁ	ʀ	ɾ	ɻ
0281 Uvular Voiced Pulmonic Fricative Rhotic Strident Obstruent Continuant Liquid	0280 Uvular Pulmonic Trill Rhotic Vibrant Liquid	027E Alveolar Voiced Pulmonic Tap/Flap Rhotic Vibrant Liquid	027B Retroflex Vocoid Voiced Pulmonic Approximant Rhotic Liquid
ɲ	ɭ	ɪ	ɨ
0272 Palatal Voiced Pulmonic Nasal Occlusive	026B Alveolar Voiced Velarized Pulmonic Lateral Approximant	026A Near-close Near-Front Vowel	0268 Close Central Vowel
ɥ	ʏ	ɣ	ʝ
0265 Labial-Palatal Vocoid Semivowel Voiced Approximant Continuant	0263 Velar Voiced Pulmonic Fricative Obstruent Continuant	0261 Velar Voiced Pulmonic Stop Occlusive	025F Palatal Voiced Pulmonic Stop Occlusive
ɛ	ə	ɔ	ɑ
025B Open-mid Near-Front Vocoid Vowel Continuant	0259 Close-mid Central Vowel	0254 Open-mid Back Rounded Vocoid Vowel Continuant	0251 Open Back Vocoid Vowel Continuant

## Appendix 7 - International Phonetic Alphabet

ɐ	ũ	œ	ŋ
0250	0169	0153	014B
Near-open Central Rounded Vowel	Open Back Nasal Vowel	Open-mid Near-Front Rounded Vowel Continuant	Velar Voiced Pulmonic Nasal Occlusive
ĩ	ø	õ	ð
0129	00F8	00F5	00F0
Close Front Nasal Vowel	Close-mid Front Rounded Vowel Continuant	Close-mid Back Rounded Nasal Vowel	Dental Voiced Pulmonic Fricative Obstruent Continuant
ç	ã	ʒ	y
00E7	00E3	007A	0079
Palatal Pulmonic Fricative Obstruent Continuant	Near-open Central Nasal Vowel	Alveolar Voiced Pulmonic Sibilant Fricative Strident Obstruent Continuant	Close Front Rounded Vowel Continuant
x	w	v	u
0078	0077	0076	0075
Velar Pulmonic Fricative Obstruent Continuant	Labial-Velar Vocoid Semivowel Voiced Approximant Continuant	Labio-Dental Voiced Pulmonic Fricative Strident Obstruent Continuant	Close Back Rounded Vowel Continuant
t	s	r	p
0074	0073	0072	0070
Alveolar Pulmonic Stop Occlusive	Alveolar Pulmonic Sibilant Fricative Strident Obstruent Continuant	Alveolar Voiced Pulmonic Trill Rhotic Vibrant Liquid	Bilabial Pulmonic Stop Occlusive
o	n	m	l
006F	006E	006D	006C
Close-mid Back Rounded Vowel Continuant	Alveolar Voiced Pulmonic Nasal Occlusive	Bilabial Voiced Pulmonic Nasal Occlusive	Alveolar Vocoid Voiced Pulmonic Lateral Approximant Rhotic Liquid
k	j	i	h
006B	006A	0069	0068
Velar Pulmonic Stop Occlusive	Palatal Vocoid Semivowel Voiced Pulmonic Approximant Continuant	Close Front Vocoid Vowel Continuant	Glottal Pulmonic Fricative

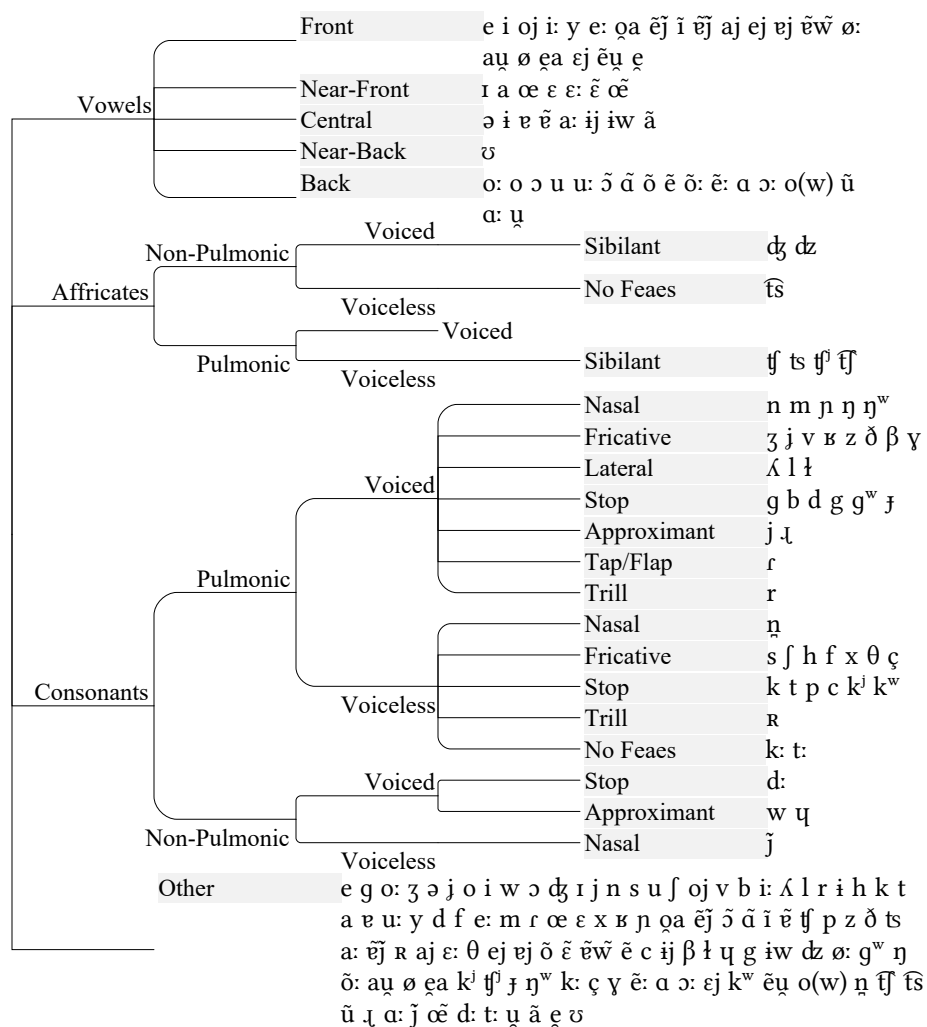
## Appendix 7 - International Phonetic Alphabet

<b>g</b>	<b>f</b>	<b>e</b>	<b>d</b>
0067	0066	0065	0064
Velar Voiced Pulmonic Stop Occlusive	Labio-Dental Pulmonic Fricative Strident Obstruent Continuant	Close-mid Front Vocoid Vowel Continuant	Alveolar Voiced Pulmonic Stop Occlusive
<b>c</b>	<b>b</b>	<b>a</b>	<b>ẽ:</b>
0063	0062	0061	1EBD, 02D0
Palatal Pulmonic Stop Occlusive	Bilabial Voiced Pulmonic Stop Occlusive	Open Near-Front Vocoid Vowel Continuant	Close Back Long Nasal Vowel
<b>tʃʲ</b>	<b>ɪw</b>	<b>ij</b>	<b>g<sup>w</sup></b>
02A7, 02B2	0268, 0077	0268, 006A	0261, 02B7
Alveolo-Palatal Pulmonic Sibilant Affricate Palatalized	Open Central Vowel Diphthong	Open Central Vowel Diphthong	Labial-Velar Voiced Pulmonic Stop Occlusive
<b>ẽ</b>	<b>ɛ:</b>	<b>ɛj</b>	<b>õ</b>
025B, 0303	025B, 02D0	025B, 006A	0254, 0303
Open-mid Near-Front Nasal Vowel	Open-mid Near-Front Vocoid Long Vowel Continuant	Mid Front Vowel Diphthong	Open-mid Back Rounded Nasal Vowel
<b>ɔ:</b>	<b>ã</b>	<b>ɑ:</b>	<b>ẽ</b>
0254, 02D0	0251, 0303	0251, 02D0	0250, 0303
Open-mid Back Rounded Vocoid Long Vowel Continuant	Near-close Back Nasal Vowel	Open Back Long Vowel	Near-open Central Rounded Nasal Vowel
<b>əj</b>	<b>œ̃</b>	<b>ŋ<sup>w</sup></b>	<b>ø:</b>
0250, 006A	0153, 0303	014B, 02B7	00F8, 02D0
Mid Front Vowel Diphthong	Open-mid Near-Front Rounded Nasal Vowel Diphthong	Labial Voiced Pulmonic Nasal Stop	Open Front Rounded Vocoid Long Vowel
<b>õ:</b>	<b>ʊ</b>	<b>u:</b>	<b>t:</b>
00F5, 02D0	0075, 032F	0075, 02D0	0074, 02D0
Close-mid Back Rounded Long Nasal Vowel	Close Back Rounded Vowel	Close Back Rounded Long Vowel	Dental Pulmonic

## Appendix 7 - International Phonetic Alphabet

oː	oj	ɳ	kː
006F, 02D0	006F, 006A	006E, 032A	006B, 02D0
Mid Back Rounded Vowoid Long Vowel Continuant	Mid Front Vowel Diphthong	Dental Pulmonic Nasal Stop	Velar Velarized Pulmonic
k <sup>w</sup>	k <sup>j</sup>	ɟ̞	iː
006B, 02B7	006B, 02B2	006A, 0303	0069, 02D0
Labial-Velar Pulmonic Stop Occlusive	Palatal Pulmonic Stop	Palatal Nasal Approximant	Close Front Vowoid Long Vowel Continuant
ɐ̯	eː	ej	dː
0065, 032F	0065, 02D0	0065, 006A	0064, 02D0
Close-mid Front Vowel	Mid Front Vowoid Long Vowel Continuant	Mid Front Vowel Diphthong	Alveolar Voiced Stop
aː	aj	ẽu̯	ẽj̞
0061, 02D0	0061, 006A	1EBD, 0075, 032F	1EBD, 006A, 0303
Open Central Vowoid Long Vowel Continuant	Mid Front Vowel Diphthong	Mid Front Nasal Vowel Diphthong	Mid Front Nasal Vowel Diphthong
ɬ̞	ʈ͡s	ɔa	ɛa
0074, 0361, 0283	0074, 0361, 0073	006F, 032F, 0061	0065, 032F, 0061
Alveolo-Palatal Pulmonic Sibilant Affricate	Alveolar Affricate	Mid Front Vowel Diphthong	Mid Front Vowel Diphthong
au̯	ẽw̃	ẽj̞	o(w)
0061, 0075, 032F	0250, 0303, 0077, 0303	0250, 0303, 006A, 0303	006F, 0028, 0077, 0029
Mid Front Vowel Diphthong	Mid Front Nasal Vowel Diphthong	Mid Front Nasal Vowel Diphthong	Close-mid Back Rounded Vowel

## Appendix 8 - Feature Tree





## Appendix 9 - Diacritics

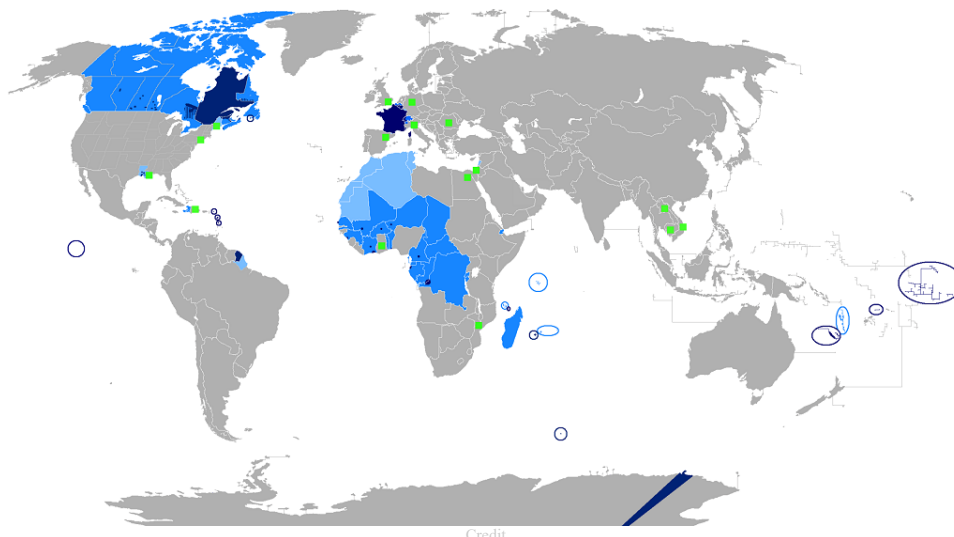
### Diacritics

	Undefined escape character	~	Nasalized	..	Centralized
+	Advanced	-	Retracted	˘	RisingTone
◦	Voiceless		Implosive	˙	Syllabic
ˈ	Ejective	Ɂ	Pharyngealized	ˆ	Falling tone
◌̥	Non-syllabic	◌̚	No audible release	◌̤	Rhotic hook
◌̟	Advanced tongue root	◌̠	Apical	˚	Extra low tone
◌̡	Low rising tone	◌̣	Less rounded	◌̦	Dental
◌̢	Velarized or Pharyngealized	↘	Global fall	◌̧	Velarized
ˊ	High tone	◌̨	High rising tone	◌̩	Aspirated
◌̪	Palatalized	◌̬	Creaky voiced	◌̪	Low tone
◌̫	Lateral release	-	Mid tone	◌̬	Laminal
◌̭	Linguo-Labial	◌̮	Nasal release	◌̭	More rounded
◌̯	Lowered	◌̰	Retracted tongue root	↗	Global rise
◌̰	Rising falling tone	◌̱	Raised	˚	Extra high tone
◌̲	Breathy voiced	◌̲	Voiced	◌̳	Labialized
◌̳	Extra short	◌̳	Mid-centralized	↓	Down-step
↑	Up-step	◌̴	Long	◌̵	Half-long
	Indeterminacy in french vowels		Begin Non-segmental notation		End non-segmental notation
◌̥	Voiced epiglottal fricative	!	Post-alveolar click		Minor group
	Dental click		Major group		Alveolar lateral click
◌̦	Palatal click	◌̧	Voiceless descender	-	Combining macron
◌̨	Tie-bar below	◌̩	Tie-bar above	◌̪	Ready made combination
→	Becomes		Separator		



## Appendix 10 - Languages

### French

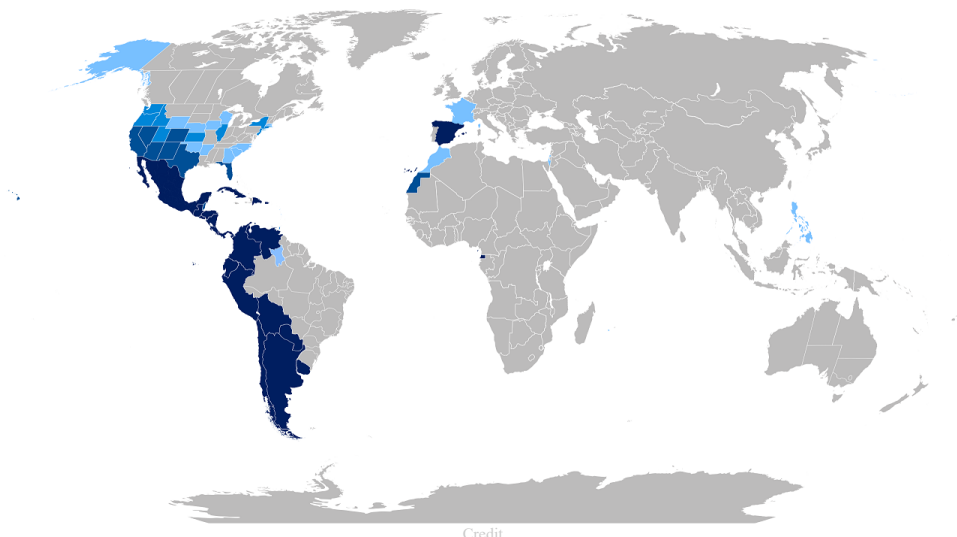


A Romance language of the Indo-European family. It descended from the Vulgar Latin of the Roman Empire, as did all Romance languages. French evolved from Gallo-Romance, the Latin spoken in Gaul, and more specifically in Northern Gaul. Its closest relatives are the other langues d'oïl—languages historically spoken in northern France and in southern Belgium, which French (Francien) largely supplanted.

French was also influenced by native Celtic languages of Northern Roman Gaul like Gallia Belgica and by the (Germanic) Frankish language of the post-Roman Frankish invaders. Today, owing to France's past overseas expansion, there are numerous French-based creole languages, most notably Haitian Creole. A French-speaking person or nation may be referred to as Francophone in both English and French.

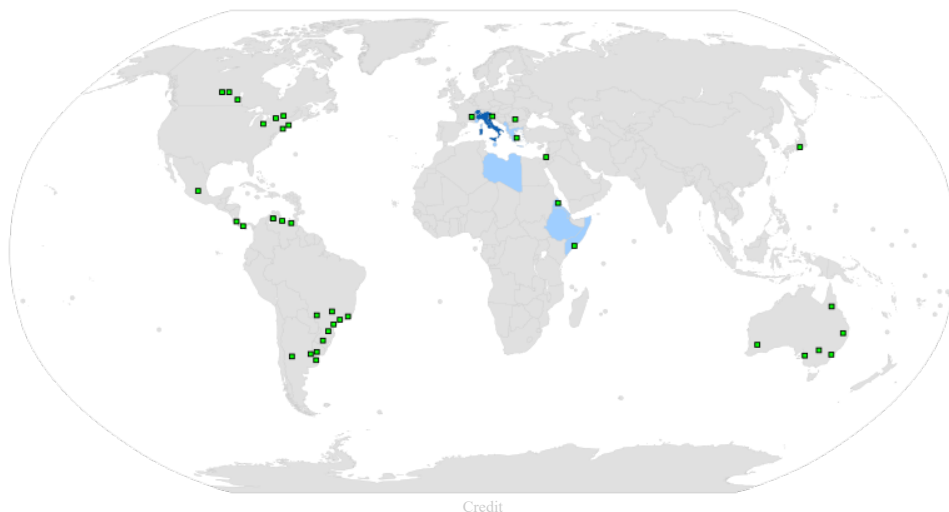
French is an official language in 29 countries across multiple continents, most of which are members of the Organisation internationale de la Francophonie (OIF), the community of 84 countries which share the official use or teaching of French. French is also one of six official languages used in the United Nations. It is spoken as a first language (in descending order of the number of speakers) in France; the Democratic Republic of Congo; Algeria; Morocco; Canada (provinces of Quebec, Ontario and New Brunswick as well as other Francophone regions); Cameroon; Belgium (Wallonia and the Brussels-Capital Region); Ivory Coast; Tunisia; western Switzerland (Romandy—all or part of the cantons of Bern, Fribourg, Geneva, Jura, Neuchâtel, Vaud, Valais); Monaco; parts of Luxembourg; parts of the United States (the states of Louisiana, Maine, New Hampshire and Vermont); northwestern Italy (autonomous region of Aosta Valley); and various communities elsewhere.

### Spanish



A Romance language that originated in the Iberian Peninsula of Europe. Today, it is a global language with nearly 500 million native speakers, mainly in Spain and the Americas. It is the world's second-most spoken native language after Mandarin Chinese, and the world's fourth-most spoken language overall after English, Mandarin Chinese, and Hindi.

### Italian



A Romance language of the Indo-European language family. Italian is the closest national language to Latin, from which it descends via vulgar Latin of the Roman Empire. Taking into account both national and regional languages, it is seen that Italian and Sardinian are together the least differentiated from Latin. Italian is an official language in Italy, Switzerland (Ticino and the Grisons), San Marino, and Vatican City. It has an official minority status in western Istria (Croatia and Slovenia).

It formerly had official status in Albania, Malta, Monaco, Montenegro (Kotor), Greece (Ionian Islands and Dodecanese), and is generally understood in Corsica by Corsican speakers (many linguists classify Corsican as an Italian dialect). It used to be an official language in the former colonial areas of Italian East Africa and Italian North Africa, where it still has a significant role in various sectors.

Italian is also spoken by large immigrant and expatriate communities in the Americas and Australia. Italian is included under the

## Appendix 10 - Languages

languages covered by the European Charter for Regional or Minority languages in Bosnia and Herzegovina and in Romania, although Italian is neither a co-official nor a protected language in these countries. Many speakers of Italian are native bilinguals of both Italian (either in its standard form or regional varieties) and another regional language of Italy.

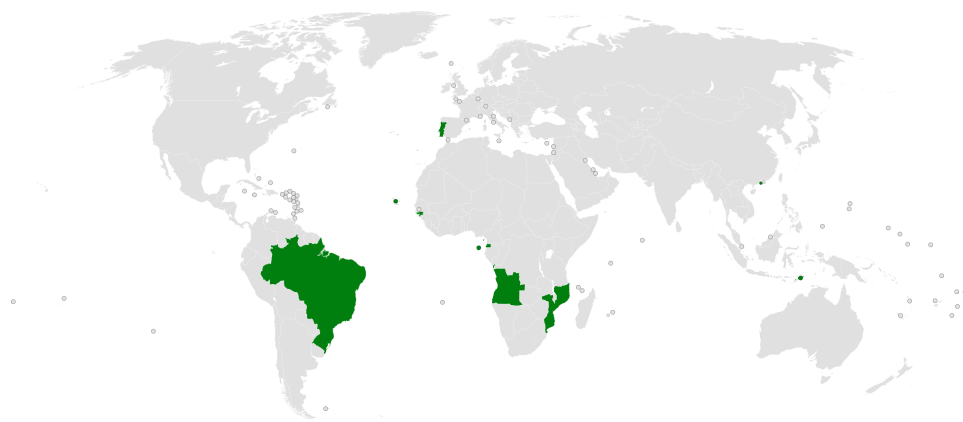
### Brazilian Portuguese



Credit

The set of dialects of the Portuguese language native to Brazil and the most influential form of Portuguese worldwide. It is spoken by almost all of the 200 million inhabitants of Brazil and spoken widely across the Brazilian diaspora, today consisting of about two million Brazilians who have emigrated to other countries. With a population of over 205 million, Brazil is by far the world's largest Portuguese-speaking nation and the only one in the Americas.

### Portuguese



Credit

A Romance language originating in the Iberian Peninsula of Europe. It is the sole official language of Portugal, Angola, Mozambique, Guinea-Bissau, Cape Verde, São Tomé and Príncipe, and Brazil, while having co-official language status in East Timor, Equatorial Guinea, and Macau. A Portuguese-speaking person or nation is referred to as "Lusophone" (lusófono). As the result of expansion during colonial times, a cultural presence of Portuguese and Portuguese creole speakers are also found around the world. Portuguese is part of the Ibero-Romance group that evolved from several dialects of Vulgar Latin in the medieval Kingdom of Galicia and the County of Portugal, and has kept some Celtic phonology and its lexicon.

## Appendix 10 - Languages

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### Catalan



Credit

Catalan (/ˈkætələn, -æn, ˌkætəˈlæn/; autonym: *català* or *llengua catalana*; Eastern Catalan: [kətəˈla]), known in the Valencian Community and Carche as Valencian, is a Western Romance language derived from Vulgar Latin. It is the official language of Andorra, and a co-official language of three autonomous communities in eastern Spain: Catalonia, the Valencian Community and the Balearic Islands. It also has semi-official status in the Italian comune of Alghero. It is also spoken in the Pyrénées-Orientales department of France and in two further areas in eastern Spain: the eastern strip of Aragon and the Carche area in the Region of Murcia. The Catalan-speaking territories are often called the *Països Catalans* or "Catalan Countries".

The language evolved from Vulgar Latin in the Middle Ages around the eastern Pyrenees. Nineteenth-century Spain saw a Catalan literary revival, culminating in the early 1900s.

### Walloon



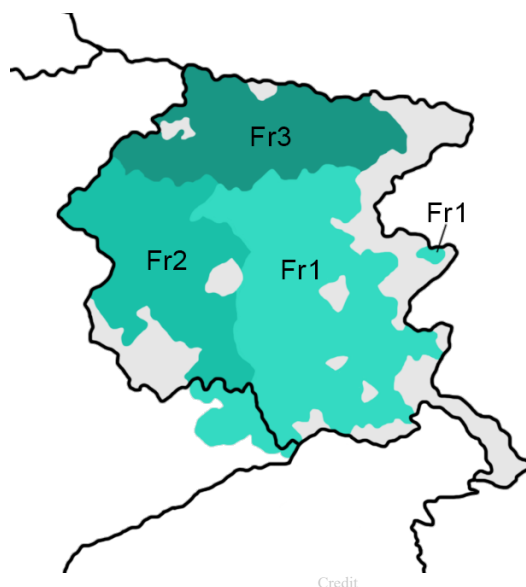
Credit

## Appendix 10 - Languages

A Romance language that is spoken in much of Wallonia and (to small extent) in Brussels, Belgium; some villages near Givet, northern France; a clutch of communities in northeastern Wisconsin, U.S.; and in some parts of Canada. It belongs to the langue d'oïl language family, the most prominent member of which is the French language. The historical background of its formation was the territorial extension since 980 of the Principality of Liège to the south and west.

Despite its rich literature, beginning anonymously in the 16th century and with well-known authors since 1756, the use of Walloon has decreased markedly since France's annexation of Wallonia in 1795. This period definitively established French as the language of social promotion, far more than it was before. After World War I, public schools provided French-speaking education to all children, inducing a denigration of Walloon, especially when accompanied by official orders in 1952 to punish its use in schools. Subsequently, since the middle of the 20th century, generational transmission of the language has decreased, resulting in Walloon almost becoming a dead language. Today it is scarcely spoken among younger people, with vast majority of its native speakers being the elderly (aged 65 and over). In 2007, the number of people with knowledge of the language was estimated at 600,000.

### Friulian



Friulian (/friˈuːliən/ free-OO-lee-ən) or Friulan (natively About this soundfurlan or marilenghe; Italian: friulano; German: Furlanisch; Slovene: furlanščina) is a Romance language belonging to the Rhaeto-Romance family, spoken in the Friuli region of northeastern Italy. Friulian has around 600,000 speakers, the vast majority of whom also speak Italian.

It is sometimes called Eastern Ladin since it shares the same roots as Ladin, but over the centuries, it has diverged under the influence of surrounding languages, including German, Italian, Venetian, and Slovene. Documents in Friulian are attested from the 11th century and poetry and literature date as far back as 1300. By the 20th century, there was a revival of interest in the language.

### Romanian



Romanian (obsolete spellings: Rumanian or Roumanian; autonym: limba română ['limba ro'minə] (About this soundlisten), or românește, lit. 'in Romanian') is a Balkan Romance language spoken by approximately 24–26 million people as a native language, primarily in Romania and Moldova, and by another 4 million people as a second language. According to another estimate, there are about 34 million people worldwide who can speak Romanian, of whom 30 million speak it as a native language. It is an official and national language of both Romania and Moldova and is one of the official languages of the European Union.

Romanian is a part of the Eastern Romance sub-branch of Romance languages, a linguistic group that evolved from several dialects of Vulgar Latin which separated from the Western Romance languages in the course of the period from the 5th to the 8th centuries. To distinguish it within the Eastern Romance languages, in comparative linguistics it is called Daco-Romanian as opposed to its closest relatives, Aromanian, Megleno-Romanian and Istro-Romanian. Romanian is also known as Moldovan in Moldova, although the Constitutional Court of Moldova ruled in 2013 that "the official language of the republic is Romanian".