

A bar chart illustrating the frequency percentage of 100 letters in the English alphabet. The vertical axis (y-axis) is labeled 'Frequency %' and ranges from 0 to 5 with major grid lines every 1 unit. The horizontal axis (x-axis) lists 100 letters, starting from 'm' on the left and ending with 'w' on the right. The bars are blue. The frequency starts at approximately 4.3% for 'm' and decreases steadily, reaching about 0.1% for 'w'. The chart shows a clear inverse relationship between the position of the letter and its frequency.

Letter	Frequency %
m	4.3
i	4.2
k	4.1
j	4.1
u	4.0
p	3.9
a	3.9
w	3.7
n	3.5
l	3.1
t	3.1
s	3.0
g	2.9
b	2.8
e	2.7
o	2.7
h	2.6
d	2.5
f	2.1
r	2.0
j	1.9
f	1.7
e	1.7
c	1.6
i	1.5
a	1.4
z	1.4
u	1.3
v	1.3
r	1.2
a	1.0
e	0.9
o	0.9
x	0.8
i	0.8
s	0.7
i	0.7
u	0.7
t	0.6
c	0.6
y	0.6
k	0.5
j	0.5
e	0.5
o	0.5
l	0.5
β	0.5
x	0.4
z	0.4
t	0.4
a	0.3
y	0.3
g	0.3
u	0.3
o	0.3
λ	0.3
ç	0.2
o	0.2
e	0.2
e	0.2
o	0.2
q	0.2
e	0.2
d	0.2
j	0.2
l	0.2
aug	0.2
œ	0.2
j	0.2
oa	0.2
ej	0.2
e	0.2
qj	0.2
ds	0.2
eq	0.2
tj	0.2
u	0.2
ej	0.2
g	0.2
aj	0.2
tj	0.2
ea	0.2
ej	0.2
uw	0.2

Appendix 2 - Symbols

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

Appendix 2 - Symbols

n	Word length Number of segments in a word
r	Rate parameter
θ	Rate parameters Parameters associated with the rate matrix
θ'	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

Char.	Segment	Words containing this segment
0	e	ego:, ew, jew, usted, vose, vose, voste, embra, femmina, femev, femjv, fembra, femeje, mulierem, muxer, moλλe, muλeκ, muλer, muλe, mujere, done, hominem, ombre, infantem, infante, fante, nenēj, nen, epuz, esposa, mulier, muxer, moλλe, muλeκ, muλer, muλe, mujere, epu, esposo, matrem, mev, madre, madre, mev, piskem, peθ, peffe, pef, pefte, awem, abe, awikellum, useλ, passerem, passero, pasare, flo:rem, fjo:re, floare, ne, narife, so:lem, sole, sare, soreli, lune, etwal, estreja, stella, istrelv, iftrelv, stele, age, ploje, plqaje, mare, mev, sa:lem, sale, se, sare, terra, tev, tjera, teκv, tjere, kali:ginem, kalidzine, nebula, njebla, nebbja, newlā, negurā, tene:braj, tenebre, tene:bras, tenebv, tinjeblas, tenebre, tenebrās, fyne, fumate, θjelo, fjer, wentum, bjento, ben, fwego, nomen, no:me, nume, no:minem, nombre, lengwa, bibere, beber, bere, bebev, biβer, bevi, komedere, komev, kome, kumer, mandukare, māze, mandzare, morde:re, morðer, mōrdere, mōrdev, mōrðer, morsika:re, morsikare, murseka, su:gere, syse, suðe, konspuere, kōspye, eskupir, sputere, esputar, sputare, ski:re, sapere, saber, sabev, seber, kogno:skere, konoθer, konofere, kopesev, kupiser, kunqafte, ko:gita:re, kuide, koðgitare, kuðeta, pe:sare, pāse, pensar, pensare, pēse, penja:, time:re, temer, temere, temev, timer, temā, temi, teme, tremere, tremerv, tremare, tremev, trimer, dormire, dormire, wi:were, vivere, vivev, viver, morire, mokev, mukev, neka:re, nwaje, neka, anegar, annegare, tpe, tuwe, makta:re, mate, okki:dere, utfjidere, utfide, pugna:re, puñjare, battuere, battere, batev, beter, bate, kaptia:re, fase, katfjare, pulsa:re, puse, pulsare, sekare, sje, segar, segare, segav, sea:, kurta:re, ekskurta:re, ekuste, skortare, talia:re, taje, taλλa:re, di:widere, dividere, divide, skindere, sēde, findere, findere, ender, fendere, fēdev, fēder, parti:re, partire, se:parare, sōnvē, separar, separare, separav, separa:, separa, pungere, punðere, punðe, jugula:re, zygye, jugula:re, radere, raer, radere, vkev, vber, rade, vaze, rasare, fodere, kaware, kavare, çavle, ekskaware, eskabar, skavare, nata:re, nwotare, navigare, naze, nabegar, navigare, wolare, vole, volare, vōle, zvolare, fəmine, kamminare, fimine, makse, mergere, merðere, merðe, ambita:re, andare, weni:re, benir, venire, veni, ekstendere, etādv, ekstender, estendere, istēdev, iftēder, æstendrā, ekstinde, jake:re, zeziv, jaθer, dzafe:re, zezev, zezet, dze, jesi, sede:re, ser, sedere, sev, fedga, sedenta:re, sentar, senta:, stare, estar, stare, levare, lave, jebar, levare, levav, leva:, altia:re, ose, altsare, torna:re, tuzne, tornare, turne, gyra:re, zive, dzirare, vive, virare, tork ^w :ere, torθer, tōrtfere, turser, tqartfe, kadere, kaer, kadere, fjade, tōbe, tume, tene:re, tener, tenere, tev, ter, tsine, segurar, eksprimere, epvēdv, eksprimir, spremere, ifpramev, ifprāmer, āspremā, esprimi, skreme, serrere, serar, seka, serare, seve, θerar, serrare, sere, appektore, apretar, stringere, etvēdv, estrepir, strindgere, stringe, strindge, frika:re, fveje, fregar, fregar, frea, freka, frika:re, fvōte, frettare, lawa:re, lave, lavare, tergere, terðere, ekstergere, estarsir, fterðe, eksuka:re, esqije, enxugar, affugare, suwe, limpida:re, tira:re, tize, tirare, tire, puse, trahere, trarre, traze, trēzer, tradze, impingere, impindgere, impindge, jakta:re, zote, efjar, dzettare, dze, lankea:re, lāse, lanfjare, e:runka:re, arrontfjare, liga:re, lie, legar, legare, lea, lega, apta:re, ko:nsuere, koser, kutfire, kuzer, coase, komputa:re, kōte, kontare, e:numera:re, enumere, enumerar, enumerare, enumera, di:kere, deθir, dire, dizer, zife, ekspō:ner, sporre, spune, kanta:re, fāte, kanta:re, fāte, lūdere, jōka:re, zve, dōkare, dzuwe, flu:ktua:re, flyktpe, fluttuare, fluitare, fluitare, fluere, flye, fluire, ko:la:re, kule, kolare, kōle, ekskurrere, eskurir, skorrere, ifkovēv, ifkurer, skurðe, kurrere, korer, korrere, kovēv, kuβer, kurðe, gela:re, zōle, elar, dgelare, dale, glakia:re, glase, gjatfjare, inglakia:re, ingetsa, bōyle, bruftare, bōule, krema:re, kvame, kemar, kremare, kejmare, kejmave, flamma:re, flābe, flamear, fjammar, arde:re, arder, ardere, avdev, vder, arde, flagra:re, flagve, flagrare, inkendere, ēsādje, enθender, infjendjare, isendzjar, ānsendrā, infjindze, ustula:re, ustolare, alter, grandem, grande, grande, majjorem, mare, le, grabe, greve, grew, grew, lerdo, pesado, pesante, pezadu, pezant, pekeno, pkenu, pikenu, brewis, brebe, brave, bvef, etkwa, estrefjo, stretto, menudo, delyado, delikato, dewgadu, subtil:lem, sottile, subtsire, ruber, vermikulus, bermexo, vermiλλo, vevmēlu, rubeus, rubeo, ruðe, wiridem, vev, berde, verde, verdi, verde, due, tres, tre, tref, k ^w :ink ^w e, ffinkw, ekkumhi:k, k ^w em, kjen, fjine, ke, ffe, kome, femu:t, nek, ne, et, e
1	g	ego:, agwv, lago, lagu, kali:ginem, negurā, fwego, fogu, lōg, lengwa, lingwa, ligwv, musaga, musagar, su:gere, sugav, sugar, kogno:skere, ko:gita:re, naga, anegar, annegare, segav, pungere, jugula:re, zygye, nabegar, navigare, nabega, naviga, segurar, sigura, fregar, fraga, iffrigar, tergere, ekstergere, enxugar, affugare, efugar, efuga, liga:re, legar, legare, zogav, zuga, flugtwar, gela:re, glakia:re, glase, gjatfjare, glasa, inglakia:re, flagra:re, flagve, flagrar, flagrar, awgū, ałgū, əlgu, gva, grande, grande, grēdi, grēdi, longum, lungu, lōgu, largo, lavgu, largu, grawis, gvav, grabe, greve, gravi, gravi, grew, angustus, angosto, angusto, dewgadu

Appendix 3 - Segments used in the word list

2	o:	ego:, no:s, no:i, no:, wo:s, vo:i, vo:, homo:, spo:s, flo:rem, fjo:re, flo:r, so:lem, no:men, no:me, no:minem, kogno:skere, ko:gitare, ko:nsuere, ekspo:nere, ko:la:re, to:tus, po:k, duo:s, k ^w ando:, k ^w omodo, no:n
3	3	zə, zə, plu:zə, kalizēj, kəlizēj, mǝze, mēzək, mēzar, mən:za, kuzitək, kuzitar, pūzɪk, pūzir, zygy:le, naze, zezi:k, zəzək, zəzer, zəwɾə, zɪkə, zɪrək, zɪrə, əftrɪzɪr, əftrɪzɪr, əstərzi, zəte, zɛjtar, zwe, zoga:k, zuɣar, zuga, zuka, zəle, zɪlar, zəla, ɪnfɪndze, ləkz, du:ze:, kuz
4	ə	zə, dənə, dɔɡamnə, ɔmə, əspɔzə, mərit, əspɔs, mərə, pasərə, ʎunə, lunə, əstɛl, ajɣwə, apə, plu:zə, tɛrə, tsarə, newlə, negurə, tənɛbrəs, ʃɛatʃə, limbə, bɛwɾə, mən:za, musəga, musəgar, musəɣa, əskupi, səβɛ, kunɛʃə, pənsa, pəsa, temə, biwɾə, nəga, mətə, batrə, kəsə, səya, təʎa, təja, fɛndrə, pərti, səvɛ, səpərə, rawɾə, rəza, rəska, kəba, nəda, nəbəga, ʃəmine, kəmina, vənɪk, bəni, əstendrə, zəwɾə, zəʃɛa, əsta, ləve, ʎəba, əlsa, tɔrsə, kawɾə, kədə, tənɪk, tənɪ, ɪʃprəmɛk, ɪʃprəmer, əsprəmə, sərar, səra, əftrɪzɪr, əftrɪzɪr, əstreɲə, frəga, frəsə, əstərzi, əfuga, trɛwɾə, əmpɛrə, zəte, ʎənsa, kənta, əskorə, korə, zəle, zəla, gləsə, krəma, ənsendrə, əlgu, altrə, amplə, pəzə, pəzat, pəti, pətit, əstret, mənɣ, mənɣut, mərunt, dəlikat, bərmeʎ, dowə, kwatrə, əʎa
5	j	jo, estreja, jubja, jaθer, jɛbar, aja
6	o	jo, io, jo, nos, no, bos, vof, vos, vose, voste, moʎʎe, domina, doɲa, donɛ, hominem, ombre, omēj, om, homo:, wəmo, nɪpo, nino, sponsa, esposa, ispoza, ɪʃpoze, moʎʎe, mariðo, marito, sponsus, esposo, spo:zo, ispozu, ɪʃpozu, sokius, sɔʃfo, sots, wazo, utʃfello, paxaro, passero, fruto, frutto, flor, flo:k, naso, na:so, sol, sole, solikulus, soreli, o, pjoddʒa, ploje, lago, lago, θjelo, ʃfelo, bjento, vento, fokum, fwego, fwəko, fogu, foɣu, fok, apɔ, anno, nomi, nomi, nombre, komedere, komer, kome, morde:re, mo:kɔk, mo:ðer, mo:kɔk, morsika:re, moskar, morsikare, konspuere, kogno:skere, konɔθer, konɔʃfere, kopese:k, koposi, koɟitare, dormi:re, dormir, dormire, do:kmi:k, dormi, morir, morire, mo:kɛk, okki:dere, kortar, ko:kta:k, skortare, kosaɟ, fodere, nwotare, wola:re, vole, bolar, volare, voak, zvolare, zvolar, ose, torna:re, tornar, tornare, to:kna:k, torna:, to:k ^w ere, to:θer, appektora:re, fɔ:te, frotar, arronʃare, koser, komputa:re, kontar, kontare, konta: sporre, jo:ka:re, ɟokare, zoga:k, kola:k, kolare, koak, skorrere, ɪʃko:kɛk, əskorə, skori:, korer, korrere, ko:kɛk, korə, kori, ustolare, omne:s, oɲɟi, todo, tutto, todɔ, toðu, tot, muʃfo, molto, mol, molc, tanto, okœ, alguno, alkuno, poko, pəko, powku, otk, otro, altro, owtru, maɲo, maɲno, majjorem, longum, longo, lungo, ʎoɲ, larɣo, largo, lato, anʃfo, ampjo, lerdo, lordo, pesaðo, pekeɲo, pitʃino, pikkolo, korto, korto, angosto, angusto, estreʃfo, stretto, menudo, minuto, delɣaðo, delikato, sottile, rubro, roxo, rosso, ɣofɔ, ɣofu, ros, roʃu, bermexo, vermiʎʎo, rubjo, rəbbjo, rubeo, uno, dos, dowə, k ^w attwor, kwatro, kwattro, θinko, kwando, k ^w o:modo, komo, kome, komu, no, non
7	i	io, no:i, vo:i, fe:mina, femmina, femine, mulierem, domina, hominem, infantem, infante, ɪfēʃi, nɪpo, nino, ispoza, mulier, maɪi, mariðo, marito, maridu, mariðu, marit, mərit, ispozu, sokius, mari, piskem, peɟʃi, avi, awikellum, fɔɟi, nariθ, nariʃe, naris, nəɾɪʃ, solikulus, soreli, istrelə, pluwia, plɟi, ka:li:ginem, kalina, kalidɟine, kalizēj, kəlizēj, tinjeblas, kajkia, vint, nomi, no:minem, ling ^w a, lingwa, limbə, bibere, bevi, mwardi, morsikare, morsikare, kuspi:k, kufpir, eskupir, əskupi, ʃti, kinɔh, koposi, ko:gita:re, kɟide, kwidar, koɟitare, kuzitək, kuzitar, timere, temi, trimar, do:kmi:k, dormir, dormire, do:kmi:k, durmir, durmi, dwakmi, dormi, vivɛ, bibir, vivere, vivek, viver, biwɾə, vivi, via, muɣik, morir, morire, muri, mɔri, muri, tu:tari, əksik, utʃidere, uksi, ufide, batir, bati, kaptiare, ta:liare, di:widere, dibidir, dividere, ɟividiɟik, dividiɟi, dibidi, dividi, divide, skindere, findere, findere, pəkti:k, partir, partire, pəʃɟik, pərtir, pərti, pɔ:rti, pūzɪk, pūzir, puni, fwik, ɪʃkəvək, ɪʃkəvar, naviga:re, navigare, navigar, naviga, ʃəmine, kaminar, kamminare, kəmiɲək, kəmiɲar, kəmina, ʃimine, caminar, ambita:re, vənɪk, benir, venire, vi:k, vir, bəni, vini, viɲi, veni, istēdek, ɪʃtēder, ekstinde, zezi:k, jesi, altia:re, zɪkə, xɪrar, ɟirare, zɪrar, zɪrə, ɟira:, vi:kə, birar, virare, virar, bira, kəir, tənɪk, tənɪ, tini, tinji, sine, eksprimere, ekspremir, ɪʃprəmɛk, ɪʃprəmer, esprimi, stringere, estreɲir, strindɟere, əftrɪzɪr, əftrɪzɪr, stringe, frika:re, frikta:re, frisar, estarsir, əstərzi, esɟije, limpida:re, limpjar, tira:re, ti:kə, tirar, tirare, ʃira, tira, tire, tira:, impingere, impindɟere, impindɟe, xita, liga:re, lie, ʎiya, kutʃire, kuzi, kuzi, di:k, deθir, dire, dizer, di, ziʃe, ludir, fluita:re, fluitare, fluir, fluire, flwik, flwir, lui, eskurir, ɪʃko:kɛk, ɪʃkurer, kuɣik, kori, glakia:re, inglakia:re, inkendere, ɪnfɛndjare, ɪnfɪndze, oɲɟi, altri, alius, grēɟi, grawis, gravi, grevi, pittitus, pəti, pətit, piti, pittinus, pitʃino, putsin, pitulus, pikkolo, piʃul, brewis, brevi, striktus, istreɟtu, minu:tus, minuto, miudu, miuðu, minu, minu:t, de:lika:tus, delikato, dəlikat, sutil, sottile, suʃiw, suptil, su:ti, subsire, vermikulus, vermiʎʎo, wiridem, kwatri, θinko, ʃɪɲkwe, siɲk, ʃɪɲk, ʃɪɲʃ, isi, aki, kwi, eki, illak, ibi, vi, ai, ei, k ^w is, ki, kwi, ʃine, k ^w id, ni, i, ʃi

Appendix 3 - Segments used in the word list

8	w	ew, jew, wo:s, wɔmo, pwasɔ, awem, aw, awikellum, wazo, sɔw, etwal, aywa, akkwa, agwɛ, ajɣwɔ, ɛ:w, pluwia, saw, nɛvwɛ, newlɔ, sɛw, wentum, fwego, fwɔko, lɛngwa, lingwa, ligwɛ, bwɔk, bɛwrɔ, mwardi, savwɔk, kwidar, dwɔkmi, wi:were, biwrɔ, nwaje, tuwe, di:widere, pwɛdɔ, rawrɔ, fwɔk, kawarɛ, ekskawarɛ, nwotare, wolarɛ, vwar, wenirɛ, zawrɔ, swɔk, fwɔk, kawrɔ, lawarɛ, suwe, trɛwrɔ, zwe, ɖuwe, flugtwar, flwɔk, flwir, awgũ, powku, owtru, aw, grawis, grew, grew, brewis, brew, etkwa, dewgadu, suɖiw, wiridem, dowɔ, tɔwɔ, k ^w attwor, kwatro, kwattro, kwatru, kwatrɔ, kwat, kwatri, ɖɪŋkwe, kwi, kwi, kwa, kwe:, kwando, kwɛdu, kwan, kwand, kwant
9	ɔ	zɔ, nɔjs, nɔf, vɔjs, vɔse, dɔnna, dɔnɔ, dɔne, ɔm, ɔmɛj, ɔmɔ, ɔm, wɔmo, spɔza, ɛspɔzɔ, spɔzo, ɛspɔs, sɔɖo, flɔ, sɔw, sɔɔ, sɔl, sɔlɔ, sɔlej, njɔly, fwɔko, fɔk, nɔm, nɔɲ, mɔrdere, kɔnetɔ, kinɔh, dɔkmiɔ, mɔri, ɔksɔ, vɔle, tɔkɔ, tɔɖfere, tɔrsɔ, lɔji:, kɔle, tɔ, pɔko, pɔk, rɔs, rɔbbjɔ, rɔɖf, kɔmɔ, kɔm, kɔmɛ
10	ɖ	ɖɔ, pɔdɖa, kalidɖine, mandɖare, suɖe, kɔɖitare, kuɖeta, ɖividɖiɔ, punɖere, punɖe, nɛɖi:, merɖere, merɖe, ɖaɖfere, ɖere, ɖirare, ɖira:, strindɖere, strindɖe, tɛɖere, ɖterɖe, traɖe, impindɖere, impindɖe, ɖettare, ɖete, ɖokare, ɖuwe, ɖuja:, skurɖe, kurɖe, ɖelare, ɖale, isendɖiar, grɛɖi, ruɖe
11	ɪ	ɖɔ, na:ris, isendɖiar
12	j	jo, jew, nɔjs, vɔjs, femjɛ, femeje, mujere, mujere, uɖjel, fruɖt, fjo:re, jubja, pɔdɖa, ploje, plɔaje, tjera, tjere, njɔly, njebla, nebbja, tinjeblas, sjɛl, ɔjelo, bjento, skuɖpa, kujda, sje, taje, teji:, taja:, tɔja, jugularɛ, jugularɛ, jakɛ:re, jesi, ɖjade, tinji, esɔije, suja:, limpjar, jakta:re, lɔji:, jokare, ɖuja:, gɔatɖjare, fjammarɛ, ɛsɔɖje, inɖendjare, isɛɖjar, majjorem, ampjo, rubjɔ, rɔbbjɔ, kjen
13	n	no:s, nu, nos, no:i, nɔjs, nɔf, no, no:, noj, femina, femmina, femine, domina, dɔnna, donɔ, dɔnɔ, dɔne, dɔamɔ, hominem, infantem, infante, fante, nɔno, nino, nenɛj, nen, sponsa, sponsus, na:sus, ne, naso, na:so, nas, na:s, nas, nariθ, nariɖe, naris, nɛriɖ, na:ris, lu:na, lyn, luna, ɔunɔ, lɔn, lune, lunɔ, ka:li:ginem, kalina, kalidɖine, nebula, njɔly, njebla, nebbja, nɛvwɛ, newlɔ, negurɔ, tene:braj, tenebre, tenebra:s, tenɛbɔ, tinjeblas, tenebre, tenebrɔs, wentum, bjento, vento, ben, vint, vint, annum, anno, ɛnu, an, no:men, nɔ, no:me, nomi, nomi, nɔm, nɔ, nɔɲ, nume, no:minem, nombre, ling ^w a, lingwa, lɛngɛ, manduka:re, mandukar, mandɖare, minka, konspuere, kogno:skere, kɔnetɔ, konɔθɛr, konɔffere, kunɛɖɔ, kinɔh, kunɔafte, pensarɛ, pensar, pensare, pɔnsa, nekare, nwaje, nɔga, neka, anegar, annegare, pugnare, skindere, findere, findere, ender, fendere, fendrɔ, pungere, punɖere, punɖe, natare, nadar, nwotare, nadar, nɛɔar, nɔda, nada:, navigare, naze, nabegar, navigare, naviɔk, naviɔar, nɔbɔga, nɛɖi:, naviga:, naviga, fɔmine, kaminar, kamminare, kɔmina, ɖimine, camina:, andar, andare, wenirɛ, vɔniɔ, benir, venire, bɔni, vini, veni, ekstendere, ekstender, estendere, ɛstendrɔ, ekstinde, sedenta:re, sentar, senta:, torna:re, tɔrne, tornar, tornare, tɔrnɔk, turnar, turna, turne, torna:, turna, tene:re, tɔniɔ, tener, tenere, tɔni, tini, tinji, tsine, stringere, strindɖere, stringe, strengi:, strindɖe, enxugar, impingere, impindɖere, impindɖe, lankeare, lanθar, lanɖfare, ɔnsa, lancɪ:, lanɖar, ɛ:runkare, arankar, arronɖfare, ko:nsuere, konar, kontare, kontar, enumerare, enumeɔe, enumerar, enumerare, enumera, numara, ekspɔnere, spune, kantare, kantar, kantare, kɔnta, canta:, kinta, inglakia:re, ingetsa, inkendere, enθender, inɖendjare, isendɖiar, ɛsendrɔ, inɖindɖe, omne:s, tantus, tanto, tant, tanc, alguno, alkuno, magnum, grandem, grande, grande, gran, grant, longum, longo, lungo, lunk, lung, anɖo, pesant, pesante, pezant, pittinus, pitɖino, pekenu, pikenu, putsin, angustus, angosto, angusto, minu:tus, mɔny, menudo, minuto, mɔnut, minu, minu:t, mɔrunt, u:num, uno, un, unu, k ^w i:nk ^w e, ɔinko, ɖinɖf, kjen, ɖine, k ^w ando:, kwando, kwan, kwand, kwant, kind, no:n, nɔ, no, non, nɛw, nu, nek, ni, ne, nɛj, nɛj, nɛ

Appendix 3 - Segments used in the word list

14	s	no:s, nos, nojs, wo:s, bos, vojs, bus, vos, usted, vose, vose, voste, sponsa, esposa, spōza, ispoza, əspōzə, mari:tus, sponsus, esposo, spōzo, ispozu, əspōs, spo:s, sokius, sōfō, sots, piskem, pēs, pwasō, useł, passero, passero, paseru, pasere, fruktus, na:sus, naso, na:so, nas, na:s, nas, naris, na:ris, so:lem, sol, sole, sōw, sōł, sōl, sōb, sōare, solikulus, sōlej, soreli, stella, estreja, stella, istrele, əstel, stō:l, stēle, stēa, sa:lem, sēl, sal, sale, saw, se, sa:l, sare, tene:bras, tinjeblas, tēnebrās, fumasē, sjel, sēw, sēl, si:ɤ, morsika:re, moskar, morsikare, musəga, musəgar, musəya, murseka, su:gere, syse, sugaɤ, sugar, sysi, suđe, konspuere, kōspyē, kuspiɤ, eskupir, əskupi, skujpa, sputere, esputar, sputare, spuda:, ski:re, sapere, savwaɤ, saber, sabēɤ, səber, səβe, savø:ɤ, save:, kogno:skere, kōnesēɤ, kupiser, kōposi, pe:nsa:re, pāse, pensar, pensare, pēsəɤ, pēsar, pōnsa, pēse, pe:nsa:, pōsa, əksiɤ, uksi, fase, kasəɤ, kēsar, kōsa, fjesi:, pulsa:re, puse, pulsare, pulsa:, pulsa, seka:re, sje, segar, segare, segəɤ, siyar, sōya, sea:, ekskurta:re, skortare, skurta:, skurta, skindere, sēde, se:para:re, səvbe, separar, separare, separəɤ, siperar, səpəra, separa:, separa, rasar, rasare, rasa:, raskar, rəska, kosa:ł, kusar, ekskawa:re, eskabar, skavare, ekstendere, ekstender, estendere, istēdeɤ, əstendrə, ekstinde, jesi, sede:re, swəɤ, ser, sedere, sēɤ, sedenta:re, sentar, sētar, senta:, sta:re, estar, stare, əsta, es, sta:, sta, ose, əlsa, əlsar, əlsa, hō:si:, turser, tōrsə, segurar, siguraɤ, siyurar, eksprimere, ekspremir, spremere, əspremə, esprimi, skreme, serrere, serar, səba, sərar, səra, serare, səbe, serrare, siɤar, səre, stringere, estrepir, stringere, əstrepiə, stringe, strēngi:, strindge, frisar, frasa, ekstergere, estarsir, əstərzi, eksu:ka:re, esqije, suwe, suja:, uska, puse, pu:si:, pulsa:, lāse, lēsa, lēsar, lōnsa, kōnsuere, koser, qōase, ekspo:nere, sporre, spune, ekskurrere, eskurir, skorrere, əskorə, skori:, skurdge, glase, glōsa, ēsādje, īsenđjar, īsēdjar, ənsendrə, ustula:re, ustolare, ustura, omne:s, to:tus, multus, tantus, paɤkus, alius, grawis, lurdus, pe:sant, pesađo, pesante, pittitus, pittinus, pitulus, kurtus, brewis, angustus, angosto, angusto, ingust, striktus, estrefo, stretto, istrejtū, əstret, stō:ɤ, stret, strimt, minu:tus, de:lika:tus, subtil:em, sutil, sottile, sufjiw, suptil, suti:, suti:l, subtsire, russus, rosso, ros, rōs, vermikululus, rubeus, duo:s, dos, dojs, duas, duēs, tre:s, tres, trēs, sēk, siku, siɤk, isi, k ^w is, si:k
15	u	nu, vu, bus, tu, usted, mulierem, muxer, mułeɤ, mułer, mułe, mui:r, mujere, epuz, mulier, muxer, mułeɤ, mułer, mułe, mui:r, mujere, mari:tus, maridu, meriđu, sponsus, epu, ispozu, ifpozu, sokius, awikellum, utfello, useł, utfjel, paseru, fruktus, fruto, frutto, frute, frujt, frut, frukt, na:sus, solikulus, luna, luē, lunə, lune, lunə, pluwia, jubja, juvə, plužə, lakum, lagu, layu, nebula, negura, fumata, fuma:ta, fumasē, fumate, kajlum, wentum, vētu, fokum, fogu, foyu, annum, enu, nume, kumer, manduka:re, mandukar, murder, musəga, musəgar, musəya, murseka, sugaɤ, sugar, cuca:, suđe, konspuere, kuspiɤ, kuspir, eskupir, əskupi, skujpa, sputere, esputar, sputare, spuda:, kupiser, kuneɤ, kungaste, kuzitaɤ, kuzitar, kujda, kuđeta, durmir, durmi, durmi, muɤiɤ, muɤer, muri, muri:, muri, tuwe, utfidere, uksi, ufide, pugna:re, pupar, pupnare, pupa, battuere, pulsa:re, puse, puxar, pulsare, pufaɤ, pufar, pulsa:, pulsa, kurtare, kurtar, ekskurta:re, ekuɤe, skurta:, skurta, pungere, pundgere, puni, pundge, jugula:re, jugula:re, kusar, bula, zbura, lua, tūne, turnar, turna, turna, turser, tumbar, tumba, tume, segurar, siguraɤ, siyurar, enxugar, affugare, efugar, efuyar, əfuga, suwe, suja:, uska, puse, pulsa:, erunka:re, aruɤka, kōnsuere, kudɤ, kuɤfire, kuzer, kuzi, kuzi, komputa:re, kumta, e:numera:re, enumeɤe, enumerar, enumerare, enumera, numara, spune, ludir, xugar, zuyar, zuga, đuwe, đujar, zuka, flu:ktua:re, flugtwar, fluttuare, flutuəɤ, flutuar, fluktua, fluctua, fluita:re, fluitare, fluere, fluir, fluire, flui, kule, kuar, kuła, ekskurrere, eskurir, ifkurer, skurdge, kurrere, kuɤiɤ, kuɤer, kurđe, bruɤare, bruza:, ustula:re, ustolare, ustura, to:tus, tu, tutto, todū, todū, dut, multus, mu, mufo, mūjtū, mult, tantus, tētū, tētū, alguno, alkuno, əlgu, paɤkus, powku, owtru, alius, magnum, longum, lungo, lōgu, lunk, lung, largum, laɤgu, largu, la:tum, latu, amplum, efu, lurdus, luɤ, pezadu, pizađu, pittitus, pittinus, pekenu, pikenu, putsin, pitulus, piɤful, kurtus, kuɤ, kuɤtu, kurtu, kurt, kurt, angustus, angusto, ingust, striktus, istrejtū, iftrejtū, minu:tus, menudo, minuto, miudu, miđu, mənut, minu, mərunt, de:lika:tus, dewgađu, deɤyađu, subtil:em, sutil, sufjiw, suptil, suti:l, subtsire, ruber, rubro, russus, ɤu, ɤofu, rofu, vermikululus, vəkmełu, virmejlu, rubeus, ɤuž, rubjo, rubeo, ruđe, u:num, uno, un, uɤ, unu, duo:s, duaj, due, duas, duēs, duɤf, kwatru, patru, siku, ekkumhi:k, kwēđu, komu, kum, nu
16	f	noɤ, voɤ, ifpoze, ifpozu, peɤfe, peɤji, peɤji, peɤ, peɤte, neriɤ, iftrele, juvə, trevɤf, kuspir, fti, konoffere, kuneɤ, kungaste, fase, pufaɤ, pufar, findere, ɤafkaɤ, ɤɤkar, ifkəvaɤ, ifkəvar, fəmine, maɤse, iftēder, fedəa, iftar, altfa:, fwaɤ, ifprəmeɤ, ifprəmer, əftrižir, əftrižir, iffriɤar, iffriɤar, fterđe, affugare, efugar, efuyar, əfuga, fāte, ifkōvəɤ, ifkurer, efu, iftrejtū, ɤofu, ɤofu, rofu, doɤf, duɤf, tref, fi
17	oj	noj, voj, froj, rojb, dojs, doɤf, doj

Appendix 3 - Segments used in the word list

18	v	vu, voi:, vots, vof, vos, vo:, voj, vose, vöse, veste, avi, avi, fuvv, nevuv, trevuf, vd, vento, vëtu, vë, vint, vint, bev, savvax, savvax, save:, vivv, vivere, vivev, viver, vivi, via, dividere, ðividðir, dividiðir, dividi, divide, sávæ, kavare, kævax, kavar, çavle, java:, skavare, ifkævax, ifkavar, zjava:, navigare:, navigare, naviyax, neviyar, naviga:, naviga, vole, volare, voax, vwar, völe, zvolare, zvola:, vønix, venire, vix, vir, vini, vipi:, veni, leva:re, löve, levare, levax, livar, leva:, viæ, virare, virar, lave, lavare, levar, lava:, gæv, grève, gravi, gravi, grav, grævi, breve, brævi, brævi, vermikulus, væmæj, vermíλλo, væmælu, virmæjlu, vev, verde, verdi, vert, vev, vert, verde, vi
19	b	bos, bus, embra, fembra, ombre, abe, jubja, nebula, njebla, nebbja, tene:braj, tenebre, tene:bras, tenebæ, tinjeblas, tenebre, tenebræ, bjento, ben, nombre, limbæ, bibere, bwax, beber, bere, bebev, biþer, bæwra, bæx, bevi, bæ, saber, sabæ, sæber, bibir, biwra, battuere, batæ, batir, battere, bateæ, bæter, batræ, bate, bati, dibidir, dibidi, kabar, kæba, eskabar, nabegar, næbæga, bolar, bula, zbura, ambita:re, benir, bæni, jebar, læba, birar, bira, tõe, tumber, tøbax, tøbar, tumba, bæyle, bruþfare, bæule, bruza:, flæbe, grabe, brewis, bæf, brebe, breve, brævi, brævi, brew, bæf, subti:lem, subtsire, ruber, rubro, bermexo, bærmæ, rubeus, rubjo, røbbjo, rubeo, rojb, berde, ibi:
20	t	tu:, ty, tu, usted, veste, infan:tem, infante, fante, ifëti, mari:tus, marito, marit, mari:t, mærit, ma:trem, pešte, uttfello, fruk:tus, fruto, frutto, frute, fruigt, frut, frukt, ste:lla, etwal, estreja, stella, istrelv, iftrelv, æstel, stæl, stæle, stæa, lat, terra, tek, tjera, terra, tævæ, tævæ, teræ, tæx, tjere, tene:braj, tenebre, tene:bras, tenebæ, tinjeblas, tenebre, tenebræ, fuma:ta, fuma:ta, fuma:ta, fumate, wentum, bjento, vento, vëtu, vint, vint, sputere, esputar, sputare, fti, kœnetæ, kunqafte, kœgita:re, kodgitare, kuzitaæ, kuzitar, kuðeta, time:re, temer, temere, temæ, timer, temæ, temi, teme, tremere, tremæ, tremare, tremæ, trimer, trimæ, tu:tari, tpe, tuwe, makta:re, mate, matar, mataæ, mætar, mæta, uttfidere, battuere, batæ, batir, battere, bateæ, bæter, batræ, bate, bati, kaptiare, katþfare, kurtare, kortar, kœtæ, kurtar, ekskurta:re, ekœte, skortare, skurtar, skurta, ta:lia:re, taje, taxar, ta:lla:re, ta:laæ, tælar, tæla, teji:, taja:, tæja, fët, parti:re, pætiæ, partir, partire, pætiæ, pæti, pæti, nata:re, nwtare, ambita:re, ekstendere, etdæ, ekstender, estendere, istædæ, iftæder, æstendræ, ekstinde, sedenta:re, sentar, sætar, sentar, stare, etæ, estar, stare, iftar, æsta, sta:, sta, alia:re, altfa:, torna:re, tuæne, tornar, tornare, tœnæ, turnar, turna, tu:rne, torna:, turna, torkw:re, tœdæ, torðer, torþere, turser, tœsæ, tœartfe, tõe, tumber, tøbax, tøbar, tumba, tume, tenere, tœniæ, tener, tenere, tæ, ter, tœni, tini, tinji, appektora:re, apretar, epirtar, stringere, etvædæ, estrepiæ, strindgere, ætrizir, ætrizir, æstrepiæ, stringe, strængi:, strindge, friktare, fæote, fro:tar, frettare, tergere, terðgere, ekstergere, estarsir, æstærzi, fterðge, tirare, tize, tirar, tirare, tira, tire, tira:, trahere, tææ, trarre, traze, træzer, træwra, traj, traðge, jakta:re, zæte, ðettare, zejtar, xita, ðæte, aptare, atar, etar, komputa:re, kœte, kontar, kontare, kœtar, kuma, kontæ, kantare, fæte, kantar, kantare, kœtar, kœnta, ifæte, cantæ, kinta, fluktuare:, flyktpe, flugtwar, fluttuare, flutuare, flutuar, fluktua, fluctua, fluitare, fluitare, gjatþfare, ustula:re, ustolare, ustura, to:tus, tu, todo, tutto, todæ, toðu, tot, tæ, dut, multus, molto, mœjtu, mult, tantus, tanto, tœtu, tœtu, tant, tanc, alter, otæ, otro, altro, owtru, altræ, ôt, altri, alt, grant, latum, lato, latu, lat, pesant, pesante, pæzat, pezant, pittitus, pæti, pætit, piti, pittinus, pitþino, pitulus, kurtus, korto, korto, kuætu, kurtu, kurt, kurt, angustus, angosto, angusto, ingust, striktus, etæwa, estrejfo, stretto, istrejtu, iftræjtu, æstret, stævæ, stævæ, strimt, minu:tus, minuto, mœnut, minu:t, mœrunt, delika:tus, delikato, dælikat, subti:lem, sutil, sottile, suptil, su:ti, sutil, vert, vert, tres, tæwa, tres, tre, tres, tref, tres, trœ:, tre:, trej, kwtwor, katæ, kwatro, kwattro, kwatu, kwatræ, kwat, kwatri, patru, kwant, fæmu:t, et
21	u:	tu:, u:hæ:, fruk:tus, lu:na, plu:æ, fu:ma:ta, fu:k, su:gere, tu:tari, tu:rne, eksu:ka:re, pu:si:, lu:dere, fluktuare:, bæule, ku:æ, minu:tus, minu:t, du:ze:, su:ti, u:num, fæmu:t
22	y	ty, fry, lyn, njoly, fyne, syse, sysi:, kœspye, zygye, gyra:re, flyktpe, flye, bæyle, mœny
23	d	usted, domina, dam, do:na, dœnna, done, dœnæ, dœm, dœne, dœamna, maridu, ma:dre, pjodþa, komedere, manduka:re, mandukar, mordere, mœdæ, mœdere, mœdæ, mwardi, spuda:, kuide, kwidar, kujda, kœdæ, dormi:re, dœmiæ, dormir, dormire, dœmiæ, durmir, durmi, dwæmi, durmi:, dormi, okkidere, uttfidere, uffide, di:widere, dibidir, dividere, dividiðir, dividi, dividi, divide, skindere, sæde, findere, findere, fædæ, ender, fendere, fædæ, fæder, fænder, pwædæ, rædere, radere, rada:, rade, fodere, nadar, nadaæ, nœda, nada:, andar, andare, ædæ, ædar, ekstendere, etdæ, ekstender, estendere, istædæ, iftæder, æstendræ, ekstinde, sede:re, sedere, fedæ, sedenta:re, tœdæ, kadere, kadere, fæde, kœde, epvædæ, etvædæ, limpida:re, kudæ, di:kere, diæ, deðir, dire, dizer, di, diæ, di:, ludere, ludir, arde:re, ædæ, arder, ardere, ardeæ, erder, arde, inkendere, æsædje, enðender, inþendjare, isædjar, ænsendræ, inþindge, todo, todæ, dut, grandem, grande, grande, grædi, lurdus, lerdo, lordo, pezadu, menudo, miudu, delika:tus, du:ze:, delyaðo, delikato, dewgadæ, delyaðu, dælikat, wiridem, berde, verde, verdi, verde, duo:s, dœ, dos, dojs, doj, dœ:, doj, duaj, due, dowæ, duas, dues, duef, kwtid, kwtando:, kwando, kwædu, kwand, kind, kwtomodo

Appendix 3 - Segments used in the word list

24	f	fe:mina, fam, femmina, femev, femjv, fembra, fœm, fəmine, femeje, infantem, āfā, infante, fante, ifēfi, ifēti, efā, fruk:tus, fʁʉi, fruto, frutto, frutv, frujt, fry, frut, frukt, flo:rem, flœv, flor, fjo:re, flov, flv, flœv, flo:r, flo:are, fu:ma:ta, fyme, fumata, fuma:ta, fumasv, fumate, fokum, fœ, fwego, fwoko, fogu, foʁu, fœk, fœ, fu:k, fok, findere, fādʁ, fendere, fēdœ, fēder, fendrā, fēt, fodere, fwiʁ, frika:re, fʁeje, fregar, fregare, frəga, froj, frea, freka, iffrigar, iffriʁar, frikta:re, fʁote, frotar, frettare, frisar, frəsa, flu:ktua:re, flyktq, flugtwar, fluttuare, flutuav, flutuar, fluktua, fluctua, fluita:re, fluitare, fluere, flye, fluir, fluire, flwiʁ, flwir, flui, flamma:re, flābe, flamear, fjammare, flāma, flagra:re, flagv, flagrar, flagrare, flagvʁ, flagrar, bʁef, bʁef
25	e:	fe:mina, ste:lla, tene:braj, tene:bras, morde:re, save:, pe:nsa:re, time:re, se:para:re, jake:re, dʒatʃe:re, sede:re, torkʷe:re, tene:re, e:runka:re, e:numera:re, arde:re, omne:s, pe:sant, de:lika:tus, du:ze:, tre:s, tre:
26	m	femina, fam, embra, femmina, femev, femjv, fembra, fœm, fəmine, femeje, mulierem, muxer, moʎʎe, muʎv, muʎer, muʎe, muir, mujere, domina, dam, dœm, dʁamnə, hominem, ɔm, ombre, omēj, ɔmēj, ɔmə, ɔm, om, homo:, wɔmo, infantem, mulier, muxer, moʎʎe, muʎv, muʎer, muʎe, muir, mujere, maritus, mavi, marido, marito, maridu, meridu, marit, mari:t, mərit, ma:trem, mev, maðre, ma:dre, mēj, marə, mev, mari, piskem, awem, awikellum, passerem, flo:rem, so:lem, lakum, mare, mev, mar, mav, mar, mev, mar, sa:lem, ka:li:ginem, fu:ma:ta, fyme, fumata, fuma:ta, fumasv, fumate, kajlum, wentum, fokum, annum, no:men, no:me, nomi, nomi, nɔm, nume, no:minem, nombre, limbə, komedere, komer, kome, kumer, manduka:re, māze, mandukar, mandʒare, mēʒav, mēʒar, mənʒa, mari:, maŋʒa, minka, morde:re, moʁdʁ, moʁder, mɔrdere, moʁdœ, murder, mwardi, morsika:re, moskar, morsikare, musəga, musəgar, musəya, murseka, time:re, temer, temere, temev, timer, temə, temi, teme, tremere, tremer, tremare, tremev, trimer, trima:, dormi:re, dœmiv, dormir, dormire, dœmiv, durmir, durmi, dwavmi, durmi:, dormi, muvix, morir, morire, moʁv, muxer, muri, məri, muri:, muri, maktare, mate, matar, matav, metar, mətə, matʃa:, fəmine, kaminar, kamminare, kəmiʁav, kəmiʁar, kəmina, ʃimine, camina:, mavʃe, ma:rʃi:, mergere, merdʒere, merdʒe, ambita:re, tumbar, tumba, tume, eksprimere, ekspremir, spremer, ispremev, ispremer, əspremə, esprimi, skreme, limpidare, limpjar, impingere, impindʒere, əpreɲə, impindʒe, komputa:re, kumta, e:numera:re, enumev, enumerar, enumerare, enumera, numara, krema:re, kvame, kemar, kremare, kejmare, kejmav, krəma, flamma:re, flamear, fjammare, flāma, omne:s, multus, mu, muʃo, molto, mūjtu, mol, molc, mult, magnum, maɲo, maɲno, grandem, majjorem, mare, longum, largum, la:tum, amplum, ampjo, amplə, strimt, minu:tus, mənʁ, menudo, minuto, miudu, miuðu, mənʉt, minu, minu:t, mərunt, subti:lem, vermikululus, vœmēj, bermexo, vermiʎʎo, vœmeʎu, virmējʎu, bœrmeʎ, viridem, u:num, ekkumhi:k, kʷem, kʷo:modo, kɔmā, komo, kome, komu, kɔm, kɔmē, ʃemu:t, kum

Appendix 3 - Segments used in the word list

27	a	<p>fe:mina, fam, embra, femmina, fembra, domina, dam, dopa, donna, infantem, infante, fante, sponsa, esposa, spoza, ispoza, maritus, mawi, mariðo, marito, maridu, marit, marit, madre, marə, mari, pwasō, awem, abe, avi, aw, awikellum, wazo, passerem, paxaro, passero, paseru, pasere, naso, nas, nas, nariθ, nariŋe, naris, luna, luna, stella, etwal, estreja, stella, ak^wa, aywa, akkwa, agwe, age, apə, pluwia, jubja, pjoddja, lakum, lak, lago, lago, lagu, layu, lak, mare, mar, maɣ, mar, sal, sale, saw, sare, terra, tjera, terra, tsarə, kalina, kalidjine, kalizēj, nebula, njebla, nebbja, tinjeblas, fuma:ta, fumata, fuma:ta, fumase, fumate, kajkia, annum, apo, anno, ap, aŋ, an, ling^wa, lengwa, lingwa, manduka:re, mandukar, mandzare, mēzav, mēzar, mənza, mapi:, maŋja:, minka, mwardi, moskar, morsikare, musəga, musəgar, musəya, murseka, sugav, sugar, skujpa, esputar, sputare, sapere, savwav, saber, sabav, savə:ɣ, save:, kwidar, koɟitare, kuzitav, kuzitar, kujda, kuɟeta, pensar, pensare, pēsav, pēsar, pənsa, pəsa, tremare, dwavmi, via, nəga, neka, anegar, annegare, makta:re, mate, matar, mataɣ, metar, mətə, matfa:, pupar, pupjare, pupa, battuere, batv, batir, battere, bateɣ, batrə, bate, bati, kaptia:re, fase, kaθar, katfjare, kasav, kesar, kəsa, caŋja:, puxar, pulsare, pufav, pufar, pulsa, segar, segare, segav, siyar, səya, kortar, koɣtav, kurtar, skortare, skurta, taxar, taɬɬare, taɬav, teɬar, təɬa, taja, təja, partire, pavtik, partir, partire, pavfjiv, parti:, separa:re, separar, separare, separav, siperar, səpəra, separa:, separa, raer, radere, vaɣv, rawrə, rada:, rade, rasar, rasare, vavav, vavar, rəza, rasa:, raskar, vafkav, vefkar, rəska, kosaɬ, kusar, kaware, kabar, kavare, kevav, kevər, kəba, java:, ekskaware, eskabar, skavare, ifkevav, ifkevar, zjava:, nata:re, nadar, nwotare, nadav, nəðar, nəda, nada:, navigare, naze, nabegar, navigare, navivav, navivar, nəbəga, navigar, naviga, bolar, volare, voav, vvar, bula, zvotare, zbura, kaminar, kamminare, kəminav, kəminar, kəmina, camina:, mavse, ambita:re, andar, andare, ədav, ədar, jake:re, jaθer, ɟatfje:re, zavrə, svav, sentar, sətər, estar, stare, iftar, əsta, sta, jebar, levare, levav, livar, ləba, lua, altia:re, alθar, altsare, aɬsa, aɬsar, əlsa, altfa:, tornar, tornare, toɣnav, turnar, turna, turna, xirar, ɟirare, zirar, zira, birar, virare, virar, bira, kadere, fjav, kaer, kadere, kawrə, fjade, tumar, təbav, təbar, tumba, segurar, sigurar, siyurar, serar, səva, sərar, səra, serare, θerar, serrare, sivar, appektorare, apretar, epitar, fregar, fregar, frəga, frea, freka, iffrigar, iffriyar, frotar, frettare, frisar, frəsa, lawa:re, lave, laɬar, lavare, levar, lavar, la, estarsir, enxugar, affugare, əfugar, əfuyar, əfuga, uska, limpjar, lipar, tirar, tirare, fira, tira, trahere, trarre, traze, traɟe, jaktare, etfar, ɟettare, zejtar, xita, lankea:re, lanθar, lanfjare, ləsa, ləsar, lənsa, lancir, lanfja:, arankar, arronfjare, arunja, legar, legare, liya, lega, apta:re, atar, vtar, kontar, kontare, kōtar, kumta, enumerar, enumerare, enumera, numara, kantare, kantar, kantare, kētar, kənta, cantar, kinta, xugar, ɟokare, zogav, zuyar, zuga, zuka, flugtwar, fluttuare, flutuav, flutuar, fluktua, fluctua, fluitare, kolar, kolare, koav, kuar, kuɬa, elar, ɟelare, zilar, zəla, ɟale, glakia:re, glase, gjatfjare, gləsa, glatfa:, inglakia:re, ingetsa, brufjare, kvame, kemar, kremare, kəjmare, kejmavə, krəma, flamma:re, flamear, fjammar, flama, ardere, avdɣ, arder, ardere, avdɣ, arde, flagra:re, flagvə, flagrar, flagrare, flagvav, flagrar, infendjare, isendjar, isədjar, ustolare, ustura, tantus, tanto, tant, tanc, alguno, alkuno, awgū, aɬgū, alter, altro, altrə, altri, alt, alius, aw, aɬ, magnum, mapo, mapno, grandem, grande, grande, gran, grant, mare, largum, lavz, larvo, largo, lavgu, largu, lark, lark, larg, lato, latu, lat, amplum, anfo, ampjo, amplə, grawis, gav, grabe, gravi, gravi, grav, pesant, pesaðo, pesante, pezadu, pizaðu, pəzat, pezant, angustus, angosto, angusto, etkwa, delyaðo, delikato, dewgadu, delyaðu, dəlikat, duas, k^wattwor, katv, kwatro, kwattro, kwatru, kwatrə, kwat, kwatri, patru, aki, la, aja, əɬa, ai, kwa, k^wando:, kwando, kwan, kwand, kwant</p>
----	---	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Appendix 3 - Segments used in the word list

28	r	embra, fembra, muxer, muſer, ombre, muxer, muſer, mariðo, maridu, mæriðu, marit, maðre, marø, paxaro, pasæru, pasære, fruto, frutø, frujt, flor, fjø:re, flqare, narið, naris, nærif, sqare, estreja, istrelø, iftrele, mar, trævøf, tænebræs, fjer, nombre, beber, bere, bißer, bewrø, komer, kumer, mandukar, mandzare, mēzar, morðer, murðer, moskar, morsikare, sugar, kuſpir, eskupir, esputar, sputare, saber, sæber, konoðer, kuñiser, kwidar, kuzitar, pensar, pensare, pēsar, temer, timer, tremer, tremø, trimer, dormir, durmir, bibir, viver, biwrø, morir, muæer, muri, anegar, matar, mētar, uttfidere, pupar, batir, bēter, batrø, kaðar, kesar, puxar, pufar, segar, siyar, kortar, kurtar, taxar, tēlar, dibidir, dividiðir, ender, fēder, fēndrø, partir, pørtir, separar, separaø, siperar, sèpøra, pūzìr, raer, røer, rawrø, rasar, røzar, raskar, røfkar, kusar, kabar, kavar, eskabar, ifkavar, nadar, nwotare, nēðar, nabegar, nēviyar, bolar, volare, vwar, zvolare, zbura, kaminar, kamminare, kēminar, andar, ēðar, benir, venire, vir, ekstender, iftēder, æstendrø, jaðer, dzafe:re, zøzer, zawrø, ser, sentar, sētar, estar, iftar, jebat, livar, alðar, ałsar, tornar, turnar, xirar, dżirare, zìrar, zìra, birar, virare, virar, bira, torðer, kaer, kadere, kēir, tumbat, tōbat, tener, tenere, ter, segurar, siguraø, siyurar, ekspremir, æspremø, serar, sèkar, ðerar, siyar, apretar, epirtar, estrepir, æstrepø, fregar, frøga, iffrigar, iffriyar, frotar, frisar, frøsa, laðar, lēvar, estarsir, enxugar, ēfugar, ēfuyar, limpjar, līpar, tìrar, fìra, tira, traze, trezer, trēwrø, eřar, zejtat, lanðar, lēsar, arankar, aruñka, legar, atar, etar, koser, kuzer, kontar, kōtar, enumerar, enumera, deðir, dizer, kantar, kētar, ludir, xugar, zuyar, flugtwat, flutuar, fluir, flwir, kolar, kuar, eskurir, ifkurer, skurdge, korer, kuæer, kurdge, elar, zilar, kemar, kējmæ, flamear, arder, erder, arde, flagar, flagarar, enðender, isendjar, isēðjar, ænsendrø, otro, owtru, altrø, grande, grēdji, grēdi, mare, laryo, largu, łark, grabe, gravi, gravi, grew, grew, lerdo, korto, kurtu, kurt, brebe, brevi, brew, estrefo, istrejtø, iftrejtø, æstret, rofu, bermexo, virmejlu, berde, verdi, vert, verde, tres, tref, kwatro, kwatru, kwatrø
29	v	femeø, femje, donø, ifpoze, mæriðu, pasæru, frutø, nærif, luø, istrelø, iftrele, agwø, juvø, tæwø, tæwø, keližē, nēvwø, trævøf, fumasø, enu, līgwø, sæber, mētar, bēter, kesar, tēlar, pørtir, siperar, røer, røzar, røfkar, kavar, ifkavar, ifkavar, nēðar, nēviyar, kēminar, kēminar, zøzer, zøzer, kēir, epirtar, lēvar, trezer, etar, erder, duø, duøf, eki, ei
30	œ	fœm, dœm, flœø
31	ε	femine, efā, pes, pehø, uttfello, uttfjel, æstel, stele, mæø, sel, terra, tæwø, terø, tjere, nēvwø, tenēbø, trævøf, sjel, fēlo, sew, sel, vento, lēnge, bewrø, sæbe, kōnetø, kuneřø, fesi: teji, fendere, fēndrø, nēdji: merdžere, estendere, etø, es, spremere, sere, æstrepø, strengi: terdžere, tæwø, trēwrø, æmprepø, džete, inřendjare, greve, grevi, bœf, breve, brevi, brevi, æstret, stret, deřyaðu, vœmœj, bœrmeł, vert, vœø, vert, tres, ke, e
32	l	mulierem, mulier, awikellum, uttfello, uttfjel, flo:rem, flœø, flor, floø, flø, flø:ø, flo:r, flqare, so:lem, sol, sole, söl, sölø, solikulus, sölēj, soreli, luna, lyn, luna, luø, løn, lune, lunø, stella, etwal, stella, istrelø, iftrele, æstel, støl: l, stele, pluwia, plqi, pluzø, pluø, ploje, ploaje, lakum, lak, lago, lago, lagu, layu, lat, sa:lem, sel, sal, sale, sa: l, ka:li:ginem, kalina, kaliđine, kaližē, keližē, nebula, njoly, njebla, newlø, tinjeblas, kajlum, sjel, ðjelo, fēlo, sel, fìl, ling"a, lōg, lenggwa, lingwa, līgwø, lēy, lēnge, limbø, pulsa:re, pulsare, pulsa: pulsa, ta:lia:re, jugula:re, zygye, jugula:re, çavle, wola:re, vole, bolar, volare, bula, vøle, zvolare, zvola: le:are, løve, le:are, le:ar, livar, le:ar, lua, alti:are, alðar, altsare, əlsa, altfa: lawa:re, lave, laðar, lavare, lēvar, lava: la, limpida:re, limpjar, līpar, pulsa: lanke:are, lōse, lanðar, lanřare, lēsa, lēsar, lanci: lanřa: liga:re, lie, legar, legare, lōji: lea: lega, lu:dere, ludir, flu:ktua:re, flyktqe, flugtwat, fluttuare, flutuø, flutuar, flu:ktua, fluctua, fluita:re, fluitare, fluere, flye, fluir, fluire, flwiø, flwir, flui, ko:lare, kule, kolar, kolare, køle, gela:re, zøle, elar, dželare, zilar, zøla, džale, glakia:re, glase, gløsa, glařa: inglakia:re, bøyle, bœu:le, flammare, flōbe, flamear, flagra:re, flagø, flagar, flagare, flagøø, flagar, ustula:re, ustolare, multus, molto, mol, molc, mult, alguno, alkuno, əlgu, alter, altro, altrø, altri, alt, alius, longum, lō, longo, lungo, lōgu, lō, lunk, lung, largum, lařz, laryo, largo, lařgu, largu, lark, larg, latum, le, lato, latu, lat, amplum, āpl, amplø, lurdus, luø, lerdo, lordo, pitulus, pikkolo, piřul, de:lika:tus, deřyaðu, delikato, dēlikat, subti:lem, sutil, sottile, suptil, suti:l, vermikulus, illa:k, la

Appendix 3 - Segments used in the word list

33	r	mulierem, mui:r, mujere, mulier, mui:r, mujere, mari:tus, marito, mari:t, mærit, ma:trem, ma:dre, mari, passerem, passero, fruk:tus, frutto, frut, frukt, flo:rem, flo:r, nari:fe, na:rīs, soreli, mare, mar, ma:r, sare, terra, tjera, terra, tērā, tjere, tsarā, negurā, tene:braj, tē:nebre, tene:bra:s, tē:nebre, bibere, komedere, manduka:re, morde:re, mōrdere, mwardi, morsika:re, morsikare, musəgar, murseka, su:gere, konspuere, sputere, ski:re, sapere, kogno:skere, konoffere, ko:gita:re, koḡitare, pe:nsa:re, time:re, temere, tremere, tremare, trima:, dormi:re, dormire, durmi, durmi:, dormi, wi:were, vivere, morire, muri:, muri, neka:re, annegare, tu:tari, makta:re, okki:dere, pugna:re, puṇṇare, battuere, battere, kaptia:re, katʃfare, pulsa:re, pulsare, sek:a:re, segare, kurta:re, ekskurta:re, skortare, skurta:, skurta, ta:lia:re, ta:lla:re, di:widere, dividere, skindere, ʃindere, findere, fendere, parti:re, partire, pærti, parti:, se:para:re, separare, separa:, separa, pungere, punḡere, jugula:re, jugula:re, ra:dere, raer, radere, rawrā, rada:, rade, rasar, rasare, rāza, rasa:, raskar, raska, fodere, kaware, kavare, ekskawa:re, skavare, nata:re, naviga:re, navigare, wola:re, mergere, merḡere, merḡe, ambita:re, andare, weni:re, ekstendere, estendere, jake:re, ḡere, sede:re, sedere, sedenta:re, sta:re, stare, levara:re, levare, alti:re, altsare, torna:re, tornare, turna, tu:rne, torna:, turna, gyra:re, ḡirare, ḡira:, virare, torkʷere, tōrʃere, turser, tōrsā, tōarʃe, kadere, kawrā, tene:re, eksprimere, spremere, iʃprəmeḡ, iʃprəmer, esprimi, skreme, serrere, serar, sēra, serare, ʃerar, serrare, appekto:re, stringere, strinḡere, əʃtrizir, əʃtrizir, stringe, strēngi:, strinḡe, frika:re, fregare, froj, frea, freka, frikta:re, frettare, frisar, laware, lavare, tergere, terḡere, ekstergere, əstərzi, ʃterḡe, eksuka:re, affugare, limpida:re, tira:re, tirare, tire, tira:, trahere, trarre, traj, traḡe, impingere, impinḡere, jaktare, ḡettare, lankea:re, lanʃare, e:runka:re, arankar, arronʃare, liga:re, legare, apta:re, ko:nsuere, kuʃfire, komputa:re, kontare, e:numera:re, enumerare, numara, di:kere, dire, ekspo:nere, sporre, kantare, kantare, ludere, joka:re, ḡokare, flu:kтуа:re, fluttuare, fluita:re, fluitare, fluere, fluire, ko:lare, kolare, ekskurrere, eskurir, skorrere, əskorā, skori:, kurrere, korer, korrere, korā, kori, gela:re, ḡelare, glakia:re, gjattʃare, inglakia:re, bruʃare, bruza:, krema:re, kremare, krēma, flammare, fjammar, arde:re, ardere, flagra:re, flagrare, inkendere, inʃendjare, ustulare, ustolare, ustura, alter, altro, altri, grandem, grande, gran, grant, majjorem, largum, largo, lark, larg, grawis, greve, grav, grēvi, lurdus, lordo, kurtus, korto, kurt, brewis, brēve, striktus, stretto, stret, strimt, mærunť, subsire, ruber, rubro, russus, roxo, rosso, ros, rōs, vermikulus, vermi:λλo, bərmeλ, rubeus, rubjo, rōbbjo, rubeo, ruḡe, rōʃ, rojb, wiridem, verde, vert, tres, tre, trēs, trō:, tre:, trej, kʷattwor, kwattro, kwatri, patru
34	x	muxer, muxer, paxaro, puxar, taxar, xirar, enxugar, xita, xugar, roxo, bermexo
35	λ	moλλe, muλeḡ, muλer, muλe, moλλe, muλeḡ, muλer, muλe, useλ, λuna, λak, taλλa:re, taλaḡ, teλar, tēla, lēba, lēnsa, λiγa, λoγ, λark, vermiλλo, vērmeλu, viṛmejλu, bərmeλ, əla
36	в	muλeḡ, muλeḡ, maḡi, meḡ, fḡqi, flōeḡ, floḡ, flō:ḡ, plu:ḡ, meḡ, maḡ, meḡ, teḡ, teḡ, teḡ, tenebḡ, si:ḡ, bwāḡ, bebeḡ, bō:ḡ, mēḡaḡ, moḡdḡ, moḡdeḡ, sugaḡ, kuspiḡ, savwaḡ, sabaḡ, kōnetḡ, kopeseḡ, kuzitaḡ, pēsāḡ, temēḡ, kḡēdḡ, tremēḡ, dōḡmiḡ, dōḡmiḡ, dwaḡmi, vivḡ, viveḡ, muḡiḡ, moḡeḡ, muḡer, mataḡ, əksiḡ, batḡ, bateḡ, kasāḡ, puḡaḡ, segaḡ, koḡtaḡ, ekuḡte, taλaḡ, ḡiḡiḡiḡ, fādḡ, fēdeḡ, paḡtiḡ, paḡʃiḡ, sāvḡe, sepaḡaḡ, pḡēdḡ, pūḡiḡ, baḡe, vḡer, vāze, vazaḡ, vḡzaḡ, vāʃkaḡ, vḡʃkaḡ, fwiḡ, kevaḡ, iʃkeḡaḡ, nadaḡ, naviḡaḡ, voaḡ, kēmiḡaḡ, maḡʃe, ēdaḡ, vāniḡ, viḡ, etādḡ, iḡtēdeḡ, zeziḡ, zezeḡ, swaḡ, seḡ, etḡ, levaḡ, tuḡne, toḡnaḡ, ziḡe, viḡe, tōdḡ, ʃwaḡ, tōbaḡ, tōniḡ, teḡ, siḡuraḡ, epḡēdḡ, iʃprəmeḡ, seḡa, seḡe, siḡar, etḡēdḡ, fḡje, fḡote, tiḡe, tḡeḡ, kudḡ, enumeḡe, diḡ, di:ḡ, zogaḡ, flutuḡaḡ, flwiḡ, koaḡ, iʃkoḡeḡ, kuḡiḡ, koḡeḡ, kuḡer, bḡyle, bḡu:le, kḡame, keḡmaḡe, aḡdḡ, aḡdeḡ, flagḡe, flagḡaḡ, otḡ, gḡā, gḡā, laḡz, laḡgu, gḡav, luḡ, kuḡ, kuḡtu, ku:ḡ, bḡef, bḡef, etḡwa, stḡō:, vu, voḡu, voḡu, vḡmej, vḡmeλu, kuḡ, veḡ, vḡ, tḡwa, kaḡ
37	i:	mui:r, mui:r, mari:tus, mari:t, ka:li:ginem, si:ḡ, ʃi:l, maḡi:, sysi:, ski:re, dormi:re, durmi:, wi:were, muri:, okki:dere, ʃesi:, teji:, di:widere, parti:re, parti:, neḡzi:, ma:ʃʃi:, weni:re, viḡi:, ho:si:, strēngi:, pu:si:, lanci:, lōji:, di:kere, di:ḡ, di:, skori:, subti:lem, suti:l, kʷinkʷe, ekkumhi:k, ibi:, ki:, si:k
38	п	doḡa, piḡo, apo, ap, mḡḡza, maḡi:, kopeseḡ, kuḡiser, koḡosi, puḡar, puḡḡare, puḡa, puḡi, kēmiḡaḡ, kēmiḡar, viḡi:, estreḡir, əstreḡə, əmpeḡə, oḡḡi, maḡo, maḡḡo, pekeḡo
39	qa	doḡamnā, floḡare, soḡare, ploḡaje, kunḡaʃte, tōarʃe, coḡase
40	h	hominem, homo:, pēhō, u:hē:, kinōh, ho:si:, trahere, ekkumhi:k
41	ēj	omēj, əmēj, nenēj, kaliḡēj, kēj, nēj
42	ō	ō, nō, kōspye, lō, nō
43	ā	āfā, efā, vā, ā, lāḡ, māze, pāse, fādḡ, etādḡ, lāse, ʃāte, ʃāte, flābe, ēsādje, gḡā, gḡā, āpl, pḡzā, kā, kōmā
44	ī	iʃēʃi, iʃēti, liḡwḡ, əʃtrizir, əʃtrizir, lipar, iḡenḡiar, iḡēdjar, siḡu
45	ē	iʃēʃi, iʃēti, mēzaḡ, mēzar, ēdaḡ, ēdar, lēsa, lēsar, kētar, tētu, tētu, grēḡi, grēdi, ēfu, kwēdu

Appendix 3 - Segments used in the word list

46	f	ifēfi, sɔfɔ, utfello, utfjel, nariŋe, f̥eatfə, f̥elo, f̥i:l, f̥er, matfa:, utf̥idere, utf̥ide, katf̥are, f̥esi:, catf̥a:, paʁtf̥iʁ, f̥imine, ma:ʁtf̥i:, dʒaʁf̥e:re, zəʁf̥ea, tɔʁtf̥ere, tɔʁtf̥e, f̥e:ʁ, f̥jade, f̥ira, eʃaʁ, lanʃaʁ, lanʃa:, arrɔnf̥are, kuʃiʁe, ziʃe, f̥ɔte, gʒatf̥jare, glaʃa:, bruʃaʁe, inʃendʒare, inʃindʒe, muʃo, anʃo, pitf̥ino, piʃʃul, estreʃo, suʃiʁw, rɔʃ, f̥iŋkwe, f̥iŋk, f̥iŋf̥, f̥ine, f̥e, f̥emu:t
47	i	if̥eti, iʃpoʒe, iʃpoʒu, peʃʃi, avi, iʃtreʁe, vint, nomi, biʃeʁ, minka, kuɲiser, timer, trimer, siʁaʁ, siʁeʁaʁ, naviʁaʁ, naviʁaʁ, iʃtaʁ, livar, siʒuraʁ, siʒaʁ, epiʁtaʁ, strindʒe, iʃfriʒaʁ, iʃfriʒaʁ, impindʒe, kinta, zilaʁ, ingetsa, inʃindʒe, gr̥edi, gravi, pizaðu, pikenu, br̥evi, ingust, iʃtr̥ejtu, strimt, vir̥m̥ejlu, verdi, ki, kind
48	p	sponsa, epuz, esposa, spɔza, ispoza, iʃpoʒe, əspɔzə, sponsus, epu, esposo, spɔzo, ispozu, iʃpoʒu, əspɔs, spo:s, piskem, peθ, peʃfe, peʃʃi, peʃʃi, peʃ, pes, peʃte, pwasð, p̥hð, passerem, paxaro, passero, paseru, pasəre, apə, pluwia, pl̥i, p̥jodɔʒa, pluʒə, plu:ʁ, ploje, konspuere, kɔspye, kuspiʁ, kuʃpiʁ, eskupiʁ, əskupi, skuʒpa, sputere, esputaʁ, sputare, spudaʁ, sapere, peɲsa:re, p̥əse, pensar, pensare, p̥əsəʁ, p̥əsar, p̥ənsa, p̥əse, peɲsa:, p̥əsa, pugna:re, puɲaʁ, puɲaʁe, puɲa, kaptia:re, pulsa:re, puse, puxaʁ, pulsare, puʃaʁ, puʃaʁ, pulsa:, pulsa, parti:re, paʁtiʁ, paʁtiʁ, paʁtiʁe, paʁtf̥iʁ, paʁtiʁ, paʁti, pɔ:ʁti, paʁti, se:paʁa:re, sepaʁaʁ, separare, sepaʁaʁ, siʁeʁaʁ, səpaʁa, sepaʁa:, sepaʁa, pungere, p̥w̥ɛd̥ʁ, punɔʒere, p̥uʒiʁ, p̥uʒiʁ, puɲi, punɔʒe, eksprimere, ep̥w̥ɛd̥ʁ, ekspremir, spremer, iʃp̥r̥əmeʁ, iʃp̥r̥əmeʁ, əspremə, esprimi, appektoʁa:re, ap̥reʁaʁ, epiʁtaʁ, limpida:re, limpjaʁ, lipaʁ, puse, pu:si:, pulsa:, impingere, impindʒere, əmpeɲə, impindʒe, apta:re, komputa:re, eksponere, sporre, spune, paʁkus, p̥ə, p̥oko, powku, p̥ək, p̥ə, p̥ə:k, amplum, ðpl, am̥pjo, am̥plə, pe:sant, p̥əz̥d̥, pesaðo, pesante, pezaðu, pizaðu, p̥əz̥at, peʒant, pittitus, p̥əti, p̥ətiʁ, piti, pittinus, pekeɲo, pitf̥ino, pekenu, pikenu, putsin, pitulus, pikkolo, piʃʃul, suptil, patru
49	z	epuz, spɔza, ispoza, iʃpoʒe, əspɔzə, spɔzo, ispozu, iʃpoʒu, wazo, ʁaze, ʁazaʁ, ʁəza, zʒava:, zvolare, zvola:, zbura, zeziʁ, zezeʁ, zezer, zəʁf̥ea, traze, tr̥eʒer, kuzer, kuzi, k̥ə:z, kuzi, dizer, ziʃe, bruza:, p̥əz̥d̥, pezaðu, pizaðu, p̥əz̥at, peʒant
50	ð	mariðo, m̥əriðu, maðre, moʁðer, muʁðer, diviðir, neðar, toðu, pesaðo, pizaðu, miuðu, deʃaðu
51	k	sokius, piskem, awikellum, fru:ktus, frukt, solikulus, akkwa, lakum, lak, lak, ka:li:ginem, kalina, kaliɔʒine, kaliʒeʃ, k̥eliʒeʃ, kajkia, kajlum, fokum, f̥w̥əko, f̥ək, fu:k, fok, komedere, komer, kome, kumer, manduka:re, mandukaʁ, minka, morsika:re, moskaʁ, morsikare, murseka, konspuere, kɔspye, kuspiʁ, kuʃpiʁ, eskupiʁ, əskupi, skuʒpa, ski:re, kogno:skere, k̥ənet̥, konoθer, konoffere, kopeseʁ, kuɲiser, kuneʃə, kin̥əh, koposi, kuɲaʃte, ko:ɡita:re, kuɲide, kwidaʁ, koɔʒitaʁe, kuʒitaʁ, kuʒitaʁ, kujda, kuɔʒeta, k̥w̥ɛd̥ʁ, neka:re, neka, makta:re, okki:dere, əksiʁ, uksi, kaptia:re, kaθaʁ, katf̥are, kasəʁ, k̥əsar, k̥əsa, seka:re, kurta:re, kortaʁ, koʁtaʁ, kurtaʁ, ekskurta:re, ekuʁte, skortare, skurta:, skurta, skindere, raskaʁ, ʁaʃkaʁ, ʁeʃkaʁ, r̥əska, kosaɫ, kusaʁ, kawa:re, kabar, kavare, k̥əvaʁ, k̥əvaʁ, k̥əba, ekskawa:re, eskabaʁ, skavare, iʃk̥əvaʁ, iʃk̥əvaʁ, kaminar, kamminare, k̥əmiɲaʁ, k̥əmiɲaʁ, k̥əmiɲa, ekstendere, ekstender, ekstinde, jake:re, kadere, kaer, kadere, k̥eɪr, kawrə, k̥əɔa, eksprimere, ekspremir, skreme, appektoʁa:re, frika:re, freka, frikta:re, ekstergere, eksuka:re, uska, jaktare, lankea:re, e:runka:re, arankaʁ, aɾuɲka, ko:nsuere, kud̥, koser, kuʃiʁe, kuzer, kuzi, k̥ə:z, kuzi, komputa:re, k̥əte, kontaʁ, kontare, k̥ətaʁ, kumta, kontaʁ, di:kere, eksponere, kanta:re, kantaʁ, kantare, k̥ətaʁ, k̥ənta, kinta, joka:re, ɔʒokare, zuka, flu:ktua:re, flykt̥e, fluktua, ko:la:re, kule, kolar, kolare, koaʁ, kuaʁ, kuʃa, k̥əle, ekskurrere, eskurir, skorrere, iʃkoʁeʁ, iʃkuʁer, əskoʁə, skori:, skurɔʒe, kurrere, kuʒiʁ, koreʁ, korrere, koʁeʁ, kuʁer, koʁə, kori, kurɔʒe, glakia:re, inglakia:re, kremare, k̥əme, kemaʁ, kremare, keɲmare, keɲmaʁe, k̥əma, inkendere, ok̥ə, alkuno, paʁkus, p̥oko, p̥oko, powku, p̥ək, p̥ə:k, lunk, lak, lark, pekeɲo, pekenu, pikenu, pikkolo, kurtus, kuʁ, korto, korto, kuʁtu, kurtu, kurt, ku:ʁ, kurt, striktus, de:lika:tus, delikato, dəlikat, vermikulus, kat̥, kwatro, kwattro, kwatru, kwatrə, kwat, kwatri, s̥ək, θinko, f̥iŋkwe, siku, siŋk, f̥iŋk, ekkumhi:k, aki, kwi, eki, illa:k, ki, ki:, kwi, kjen, k̥eʃ, k̥eʃ, kwa, ke, ki, ke, kw̥ə:, k̥ə, kwando, kw̥ədu, kwan, kwand, kwant, kind, k̥əmə, komo, kome, komu, k̥əmə, k̥əmə, kum, nek, si:k
52	ts	sots, tsarə, altsare, tsine, ingetsa, putsin, subtsire

Appendix 3 - Segments used in the word list

53	a:	ma:trem, ma:dre, na:sus, na:so, na:s, na:ris, la:t, ma:r, sa:lem, sa:l, ka:li:ginem, tene:bras, fu:ma:ta, fuma:ta, manduka:re, maɲja:, morsika:re, cuca:, spuda:, ko:gita:re, pe:nsa:re, peɲsa:, trima:, neka:re, tu:ta:ri, makta:re, maɬa:, pugna:re, kaptia:re, caɬa:, pulsa:re, pulsa:, seka:re, sea:, kurtare:, ekskurta:re, skurta:, ta:lia:re, ta:lla: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:rɬi:, ambita:re, sedenta:re, senta:, sta:re, sta:, leva:re, leva:, altia:re, altfa:, torna:re, torna:, gyra:re, dʒira:, appekto:re, frika:re, frikta:re, lawa:re, lava:, eksu:kare:, suja:, limpida:re, tira:re, tira:, pulsa:, jakta:re, lankea:re, lanɬa:, e:runka:re, liga:re, lea:, apta:re, komputa:re, konta:, e:numera:re, kanta:re, canta:, joka:re, dʒuja:, flu:kтуа:re, fluita:re, ko:la:re, gela:re, glakia:re, glaɬa:, inglakia:re, bruza:, kremare:, flamma:re, flagra:re, ustula:re, la:tum, de:lika:tus, illa:k
54	ẽj	mẽj, kelizẽj, kẽj, nẽj
55	ɾ	meɾ, fry, savø:ɾ, mɔ:ri, pɔ:rti, ma:rɬi:, ɬe:ɾ, səɾaɾ, sɛɾe, ifkurer
56	θ	peθ, nariθ, θjelo, konoθer, kaθaɾ, jaθer, alθaɾ, toɾθer, θeraɾ, lanθaɾ, deθir, enθender, θinko
57	ej	pejfi, zejtar, kejmaɐe, istrejtu, trej
58	ej	pejfi, kejmare, iftrejtu, vimẽjɬu
59	õ	pwasõ, pẽhõ, nõ, tõbe, tõbaɐ, tõbaɾ, kõte, kōtar, põ, õt, lõgu, lõ, õ
60	ɛ:	u:hɛ:, ɛ:w, tɛ:ɐ, tɛ:nebre, tɛ:nebre, ɬɛ:ɛɾ, kwe:
61	ɥ	fɥqi, plɥi, kɥide, tɥe, esɥije, flyktɥe
62	ø:	flø:ɐ, stø:l, fø:, bø:ɐ, savø:ɾ, kø:z, stø:, dø:, trø:
63	ɭ	sɭɭ, aɭsa, aɭsaɾ, kuɭa, ɭama, aɭgũ, aɭ, deɭyaðu
64	ej	sɔɭej, fɛɛje, vɛɛmej
65	ø	løn, fø, pø, dø
66	ɛa	stɛa, ɬɛaɬɔ, bɛa, zəɬɛa, fedɛa, kəɛa
67	kʷ	akʷa, torkʷe:re, kʷattwor, kʷi:ɪnkʷe, kʷis, kʷem, kʷid, kʷando:, kʷo:modo
68	ɣ	aɣwa, aɣwə, laɣu, foɣu, musəɣa, siɣaɾ, səɣa, naviɣaɐ, neviɣaɾ, siɣuraɾ, iffriɣaɾ, ɛɬuɣaɾ, ɭiɣa, zuɣaɾ, laɣo, deɭyaðu, deɭyaðu
69	aj	aɣwə, tene:braj, kajkia, kajlum, nwaje, traj, majjorem, duaj
70	g	age, lago, lɛnge, pugna:re, segaɾ, segare, jugula:re, naviga:re, naviga:, mergere, gyra:re, stringere, stringe, strɛngi:, fregare, impingere, lega, xugaɾ, glaɬa:, ingetsa, flagɐaɐ, alguno, magnum, grandem, gran, gɐã, grant, longo, lung, largum, larg, grav, gɾevi, grew, ɪngust
71	ẽ	vẽtu, vẽ, pẽsaɐ, pẽsaɾ, kɐẽdɐ, fẽdɐ, fẽder, istẽdɐ, iftẽder, sẽtar, ɛɬugaɾ, ɛɬuɣaɾ, ɪsɛdjaɾ, sɛk, nẽ
72	ɨ	aɨ, nɔɨ, lɛɨgwa, maɲja:, peɲsa:, aɾuɨka, ɭɔɨ, ɪngust, uɨ, ɬɪɨkwe, siɨk, ɬɪɨk
73	gʷ	lingʷa
74	ẽu	lẽu
75	a	bwaɐ, taje, ɐaze, tɐwa
76	β	biβer, səβɛ, laβaɾ
77	ɟ	maɲja:, java:, zjava:
78	c	cuca:, caɬa:, camina:, lanci:, cɔase, canta:, fluctua, molc, tanc
79	ẽ	pẽse, sẽde, fẽt, pwẽdɐ, epɐẽdɐ, etɐẽdɐ, ɛsɛdje, kɔmẽ
80	ɔ:	pɔ:rti, hɔ:si:
81	ũ	pũziɐ, pũziɾ, mũjtu, awgũ, aɭgũ, ã
82	ɭ	kosaɭ
83	ç	çɑ:vle
84	ɑ:	çɑ:vle
85	j	mũjtu
86	œ	okœ, œ
87	aʊ	paʊkus
88	ʊ	ɐofʊ
89	ẽw	nẽw

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
YouSingular	tu:	t-U
Woman	fe:-mi-n-a	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	homi-nem	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
Fish-Piskem	piskem	p-e-s-k-ay-m
Bird-Avem	awem	ah-w-ay-m
Bird-Avicellum	-awi-k-ellum	ah-w-e-k-ay-l-l-u-m
Bird-Passerem	passerem	p-ah-s-s-ay-r-ay-m
Fruit	fru:-ktus	f-r-U-k-t-u-s
Flower	flo:rem	f-l-O-r-ay-m
Nose	na:sus	n-A-s-u-s
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	-st-e:lla	s-t-ai-l-l-ah
Water	a-k ^w -a	ah-kw-ah
Rain	plu-wia	p-l-u-w-e-ah
Lake	lakum	l-ah-k-u-m
Sea	mare	m-ah-r-ay
Salt	'sa:lem	s-A-l-ay-m
Earth	t-erra	t-ay-r-r-ah
Fog	ka:li:ginem	k-A-l-E-g-e-n-ay-m
Fog-Nebula	n-e-bula	n-ay-b-u-l-ah
Fog-Tenebrae	tene:braj	t-ay-n-ai-b-r-aj_diphthong
Fog-Tenebras	t-en-e: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	'k-ajlum	k-aj_diphthong-l-u-m
Wind	w-entum	w-ay-n-t-u-m
Fire-Focus	f-okum	f-oh-k-u-m
Year	annum	ah-n-n-u-m
Name-Nomen	no:men	n-O-m-ay-n
Name-Nominem	no:min-em	n-O-m-e-n-ay-m
Tongue	ling ^w -a	l-e-n-gw-ah
ToDrink	'bib-ere	b-e-b-ay-r-ay
ToEat	komedere	k-oh-m-ay-d-ay-r-ay
ToEat-Manducare	manduka:re	m-ah-n-d-u-k-A-r-ay
ToBite	m-orde:re	m-oh-r-d-ai-r-ay
ToBite-Morsicare	morsika:re	m-oh-r-s-e-k-A-r-ay
ToSuck	su:gere	s-U-g-ay-r-ay
ToSpit	konspuere	k-oh-n-s-p-u-ay-r-ay

Appendix 4 - Word Lists by Language

To Spit-Sputare	-sputere	s-p-u-t-ay-r-ay
To Know	ski:re	s-k-E-r-ay
To Know-Sapere	sap-ere	s-ah-p-ay-r-ay
To Know-Cognoscere	kogno:skere	k-oh-g-n-O-s-k-ay-r-ay
To Think	k-o:gita:re	k-O-g-e-t-A-r-ay
To Think-Pensare	pe:nsa:re	p-ai-n-s-A-r-ay
To Fear	time:re	t-e-m-ai-r-ay
To Fear-Tremere	trem-ere	t-r-ay-m-ay-r-ay
To Sleep	d-ormi:re	d-oh-r-m-E-r-ay
To Live	wi:were	w-E-w-ay-r-ay
To Kill	n-eka: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
To Kill-Occidere	okki:dere	oh-k-k-E-d-ay-r-ay
To Fight	pugna:re	p-u-j-n-A-r-ay
To Fight-Battuere	battuere	b-ah-t-t-u-ay-r-ay
To Hunt-Captiare	kaptia:re	k-ah-p-t-e-A-r-ay
To Hit	pulsa:re	p-u-l-s-A-r-ay
To Cut	s-eka:re	s-ay-k-A-r-ay
To Cut-Curtare	kurta:re	k-u-r-t-A-r-ay
To Cut-Excurtare	ekskurta:re	ay-k-s-k-u-r-t-A-r-ay
To Cut-Taliare	ta:lia:re	t-A-l-e-A-r-ay
To Split	di:widere	d-E-w-e-d-ay-r-ay
To Split-Scindere	skindere	s-k-e-n-d-ay-r-ay
To Split-Findere	findere	f-e-n-d-ay-r-ay
To Split-Partire	parti:re	p-ah-r-t-E-r-ay
To Split-Separare	se:para:re	s-ai-p-ah-r-A-r-ay
To Stab	p-ungere	p-u-n-g-ay-r-ay
To Stab-Iugulare	jugula:re	jg-u-g-u-l-A-r-ay
To Scratch	ra:dere	r-A-d-ay-r-ay
To Dig	fodere	f-oh-d-ay-r-ay
To Dig-Cavare	kawa:re	k-ah-w-A-r-ay
To Dig-Excavare	ekskawa:re	ay-k-s-k-ah-w-A-r-ay
To Swim	n-ata:re	n-ah-t-A-r-ay
To Swim-Navigare	naviga:re	n-ah-v-e-j-A-r-ay
To Fly	wola:re	w-oh-l-A-r-ay
To Walk-Mergere	mergere	m-ay-r-j-ay-r-ay
To Walk-Ambitare	ambita:re	ah-m-b-e-t-A-r-ay
To Come	weni:re	w-ay-n-E-r-ay
To Lie As In A Bed	ekstendere	ay-k-s-t-ay-n-d-ay-r-ay
To Lie As In A Bed-lacere	ja-ke:re	jg-ah-k-ai-r-ay
To Sit	s-edere	s-ay-d-ai-r-ay
To Sit-Sedentare	sedenta:re	s-ay-d-ay-n-t-A-r-ay
To Stand	-sta:re	s-t-A-r-ay
To Stand-Levare	leva:re	l-ay-v-A-r-ay
To Stand-Altiare	-altia:re	ah-l-t-e-A-r-ay
To Turn Intransitive	torna:re	t-oh-r-n-A-r-ay
To Turn Intransitive-Gyrate	gyra:re	j-eeh-r-A-r-ay
To Turn Intransitive-Torquere	tork*re	t-oh-r-kw-ai-r-ay
To Fall	k-adere	k-ah-d-ay-r-ay
To Hold	ten-e:re	t-ay-n-ai-r-ay
To Squeeze	eksprim-ere	ay-k-s-p-r-e-m-ay-r-ay
To Squeeze-Serrere	serrere	s-ay-r-r-ay-r-ay
To Squeeze-Serare	se-rare	s-ay-r-ah-r-ay
To Squeeze-Appetere	appektora:re	ah-p-p-ay-k-t-oh-r-A-r-ay
To Squeeze-Stringere	-stringere	s-t-r-e-n-j-ay-r-ay
To Rub	frika:re	f-r-e-k-A-r-ay

Appendix 4 - Word Lists by Language

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	eks-u:k-a: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
ToThrow-Lanceare	lankea: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:n-suere	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	jo-ka:re	jg-oh-k-A-r-ay
ToFloat	flu:ktua:re	f-l-U-k-t-u-A-r-ay
ToFloat-Fluitare	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	gla-kia:re	g-l-ah-k-e-A-r-ay
ToFreeze-Inglaciare	inglakia:re	e-n-g-l-ah-k-e-A-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	inkend-ere	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	magnum	m-ah-j-n-u-m
Big-Grandem	grandem	j-r-ah-n-d-ay-m
Big-Majjorem	majjorem	m-aj_diphthong-jg-oh-r-ay-m
Long-Longum	'lo-ngum	l-oh-n-g-u-m
Long-Largum	largum	l-ah-r-j-u-m
Wide	'la:tum	l-A-t-u-m
Wide-Amplum	amplum	ah-m-p-l-u-m
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

Appendix 4 - Word Lists by Language

Small-Pitulus	pi-tulus	p-e-t-u-l-u-s
Short	kurtus	k-u-r-t-u-s
Short-Brevis	brewis	b-r-ay-w-e-s
Narrow	angustus	ah-n-g-u-s-t-u-s
Narrow-Strictus	-str-i-ktus	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
Red	ruber-	r-u-b-ay-r
Red-Russus	russus	r-u-s-s-u-s
Red-Vermiculus	vermikulus	v-ay-r-m-e-k-u-l-u-s
Red-Rubeus	ru-beus	r-u-b-ay-u-s
Green	'wiridem	w-e-r-e-d-ay-m
One	'u:num	U-n-u-m
Two-Duos	duo:s	d-u-O-s
Two-Duae	du-aj	d-u-aj_diphthong
Two-Duas	duas	d-u-ah-s
Three	tr-e:s	t-r-ai-s
Four	k ^w -attwor-	kw-ah-t-t-w-oh-r
Five	'k ^{wi} :nk ^w -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 ^w -is	kw-e-s
Who-Quem	k ^w -em-	kw-ay-m
What	'k ^w -id	kw-e-d
When-Quando	k ^w -ando:	kw-ah-n-d-O
How-Quomodo	'k ^w o:modo	kw-O-m-oh-d-oh
Not	no:n	n-O-n
Not-Nec	nek	n-ay-k
And-Et	et	ay-t
And-Si	si:k	s-E-k

French

Cognate	IPA	Sounds
I	ʒə--	gzah-aah
We	nu--	n-u
YouPlural	vu--	v-u
YouSingular	ty	t-eeh
Woman	fə-m-----	f-ah-m
Woman-Domina	də-m---	d-ah-m
ManHumanBeing	-ɔm-----	euh-m
ManHumanBeing-Homo	-ɔ̃--	oon
Child	ɑ̃-fɑ̃----	NasalA-f-NasalA
Wife	e-pu-z-	ay-p-u-zz
Husband	mɑ̃ʁi---	m-ah-rr-e
Husband-Sponsus	e-pu----	ay-p-u
Mother	mɛ-ʁ--	m-ay-rr
Fish-Pescion	pwasɔ̃	p-w-ah-s-on
Bird-Avicellum	wa---z-o----	w-ah-zz-oh
Fruit	fʁɥi----	f-rr-eu-e
Flower	flœʁ--	f-l-OpenMidNearFrontRounded-rr
Nose	nɛ---	n-ay
Sun-Soliculus	sɔləj----	s-euh-l-eh_diphthong
Moon	lyn-	l-eeh-n

Appendix 4 - Word Lists by Language

Star	e-twa-l-	ay-t-w-ah-l
Water	o----	oh
Rain	plɥ--i-	p-l-eu-e
Lake	lak--	l-ah-k
Sea	mɛɤ-	m-eh-rr
Salt	sɛl--	s-eh-l
Earth	t-e-ɤ-	t-ay-rr
Fog-Nebula	nɔ---ly	n-jg-euh-l-eeh
Fog-Tenebras	t-en-ɛbɤ-	t-ay-n-eh-b-rr
Fog-Fumata	fyme--	f-eeh-m-ay
Sky	sɟɛl--	s-jg-eh-l
Wind	v-ã----	v-NasalA
Fire-Focus	f-ø---	f-uu
Year	ã----	NasalA
Name-Nomen	nõ---	n-oon
Tongue	lã-g--	l-NasalA-g
ToDrink	b--wak-	b-w-a-rr
ToEat-Manducare	mã-ʒ--e--	m-NasalA-gzah-ay
ToBite	m-oɤd-ɤ-	m-oh-rr-d-rr
ToSuck	syse--	s-eeh-s-ay
ToSpit	kɔ-spye-	k-oon-s-p-eeh-ay
ToKnow-Sapere	savwak-	s-ah-v-w-ah-rr
ToKnow-Cognoscere	kɔ-nɛ-tɤ-	k-euh-n-eh-t-rr
ToThink	kɥ--ide--	k-eu-e-d-ay
ToThink-Pensare	pã-sc--	p-NasalA-s-ay
ToFear-Tremere	kɤɛ-d-ɤ-	k-rr-ehn-d-rr
ToSleep	d-ɔɤmik-	d-euh-rr-m-e-rr
ToLive	viv-ɤ-	v-e-v-rr
ToDie	mukɤ-	m-u-rr-e-rr
ToKill	nwaje--	n-w-aj_diphthong-ay
ToKill-Tutari	t-ɥ-e--	t-eu-ay
ToKill-Mactare	ma-te--	m-ah-t-ay
ToKill-Occidere	ɔksi--ɤ-	euh-k-s-e-rr
ToFight-Battuere	bat--ɤ-	b-ah-t-rr
ToHunt-Captiare	ʃa-s-e--	shh-ah-s-ay
ToHit	pu-se	p-u-s-ay
ToCut	sje----	s-jg-ay
ToCut-Excurtare	e--kuxte--	ay-k-u-rr-t-ay
ToCut-Taliare	taj--e--	t-a-jg-ay
ToSplit-Scindere	s-ɛ-de--	s-ehnn-d-ay
ToSplit-Findere	fã-d-ɤ-	f-NasalA-d-rr
ToSplit-Partire	paktiɤ-	p-ah-rr-t-e-rr
ToSplit-Separare	sə-v---ɤe	s-aah-v-rr-ay
ToStab	pwɛ-d-ɤ-	p-w-ehnn-d-rr
ToStab-Iugulare	ʒygyle--	gzah-eeh-g-eeh-l-ay
ToScratch-Rasare	ɤaze--	rr-a-zz-ay
ToDig	fwɤ-	f-w-e-rr
ToSwim-Navigare	na--ʒe--	n-ah-gzah-ay
ToFly	vole--	v-oh-l-ay
ToWalk	ʃəmine--	shh-aah-m-e-n-ay
ToWalk-Marcher	maɤʃe	m-ah-rr-shh-ay
ToCome	vəniɤ-	v-aah-n-e-rr
ToLieAsInABed	e-tã-d-ɤ-	ay-t-NasalA-d-rr
ToLieAsInABed-lacere	ʒe-zik-	gzah-ay-zz-e-rr
ToSit	swa--ɤ-	s-w-ah-rr
ToStand	ɛ-t-ɤ-	eh-t-rr
ToStand-Levare	lɔve--	l-aah-v-ay

Appendix 4 - Word Lists by Language

ToStand-Altiare	-o-s-e--	oh-s-ay
ToTurnIntransitive	tuɾne--	t-u-rr-n-ay
ToTurnIntransitive-Gyrate	ʒiɾe--	gzah-e-rr-ay
ToTurnIntransitive-AncestralClass3	viɾe--	v-e-rr-ay
ToTurnIntransitive-Torque	tɔɾd-ɾ-	t-euh-rr-d-rr
ToFall	ʃwa--ɾ-	shh-w-ah-rr
ToFall-Tumbare	tõ-be-	t-on-b-ay
ToHold	tɔn-iɾ-	t-aah-n-e-rr
ToSqueeze	e--pɾẽ-d-ɾ-	ay-p-rr-ehnn-d-rr
ToSqueeze-Serare	se-ɾe--	s-ay-rr-ay
ToSqueeze-Stringere	e-tɾẽ-d-ɾ-	ay-t-rr-ehnn-d-rr
ToRub	fɾɛje--	f-rr-eh_diphthong-ay
ToRub-Frictare	fɾote--	f-rr-oh-t-ay
ToWash	lave--	l-ah-v-ay
ToWipe-Exsucare	e-sui-je--	ay-s-eu-e-jg-ay
ToPull	tike--	t-e-rr-ay
ToPull-Pulsare	pu-se--	p-u-s-ay
ToPull-Trahere	tɾ--ɛɾ-	t-rr-eh-rr
ToThrow	ʒɔ-te	gzah-aah-t-ay
ToThrow-Lanceare	lɔ-s-e-	l-NasalA-s-ay
ToTie	li-e--	l-e-ay
ToSew	ku-d---ɾ-	k-u-d-rr
ToCount	kõ---te--	k-on-t-ay
ToCount-Enumerare	enumeɾe--	ay-n-u-m-ay-rr-ay
ToSay	di--ɾ	d-e-rr
ToSing-AncestralClass	ʃɔ-te--	shh-NasalA-t-ay
ToPlay-Jiocare	ʒ-w-e--	gzah-w-ay
ToFloat	flyktɥe--	f-l-eeh-k-t-eu-ay
ToFlow	flye--	f-l-eeh-ay
ToFlow-Colare	kule--	k-u-l-ay
ToFlow-Currere	ku-ɾiɾ-	k-u-rr-e-rr
ToFreeze	ʒɔle--	gzah-aah-l-ay
ToFreeze-Glaciare	gla-s-e--	g-l-ah-s-ay
ToBurn-Brojan	bɾɥle--	b-rr-eeh-l-ay
ToBurn-Cremare	kɾame--	k-rr-ah-m-ay
ToBurn-Flammare	flɔ-be--	f-l-NasalA-b-ay
ToBurn-Ardere	aɾd-ɾ-	ah-rr-d-rr
ToBurn-Flagrare	flagɾe--	f-l-ah-g-rr-ay
ToBurn-Incendere	ɛ-sɔ-dje--	ehnn-s-NasalA-d-jg-ay
All-Totus	tu----	t-u
Many	mu---	m-u
Some	o-kɔ-	oh-k-uuh
Few	pø---	p-uu
Other	o-t-ɾ-	oh-t-rr
Big-Grandem	gɾɔ---	g-rr-NasalA
Long-Longum	lõ-----	l-oon
Long-Largum	laɾʒ--	l-ah-rr-gzah
Wide	le---	l-ay
Wide-Amplum	ã-pl--	NasalA-p-l
Heavy	gɾav--	g-rr-ah-v
Heavy-Lurdus	luɾ---	l-u-rr
Heavy-Pesant	pɔʒɔ---	p-aah-zz-NasalA
Small	pɔ-ti---	p-aah-t-e
Short	kuɾ---	k-u-rr
Short-Brevis	bɾɛf--	b-rr-eh-f
Narrow-Strictus	e-tɾwa-----	ay-t-rr-w-ah
Thin	mɔny----	m-aah-n-eeh

Appendix 4 - Word Lists by Language

Thin-Delicatus	du:--ʒe:---	d-U-gzah-ai
Red-Russus	ʁu----	rr-u
Red-Vermiculus	vɛʁmɛj----	v-eh-rr-m-eh_diphthong
Red-Rubeus	ʁu-ʒ---	rr-u-gzah
Green	vɛʁ----	v-ay-rr
One	œ---	uuh
Two-Duos	d-ø-	d-uu
Three	tʁwa-	t-rr-w-a
Four	k-a-t--ʁ-	k-ah-t-rr
Five	sɛ̃-k--	s-ehn-k
Here	i--s---i-	e-s-e
There	--la-	l-ah
Who-Qui	k-i-	k-e
What	kwa-	k-w-ah
When-Quando	k-ã---	k-NasalA
How-Quomodo	kɔmã--	k-euh-m-NasalA
Not	nɔ̃-	n-oon
Not-Nec	ni-	n-e
And-Et	e-	ay

Spanish

Cognate	IPA	Sounds
I	j--o	VdPalatalFricative-oh
We	no-s	n-oh-s
YouPlural	bo-s	b-oh-s
YouSingular	tu	t-u
YouSingular-VostramMercedem	-usted	u-s-t-ay-d
Woman	-e-m-br-a	ay-m-b-er-ah
Woman-Mulier	mux-er--	m-u-xha-ay-er
Woman-Domina	do--ɲa	d-oh-VdPalatalNasal-ah
ManHumanBeing	om-bre-	oh-m-b-er-ay
Child	infante-	e-n-f-ah-n-t-ay
Child-Ninnus	nijo	n-e-VdPalatalNasal-oh
Wife	espo-sa	ay-s-p-oh-s-ah
Wife-Mulier	mux-er-	m-u-xha-ay-er
Husband	mariðo-	m-ah-er-e-dd-oh
Husband-Sponsus	espo-so-	ay-s-p-oh-s-oh
Mother	maðre-	m-ah-dd-er-ay
Fish-Piskem	peθ---	p-ay-th
Bird-Avem	abe-	ah-b-ay
Bird-Passerem	pa-xaro-	p-ah-xha-ah-er-oh
Fruit	fru--to-	f-er-u-t-oh
Flower	flor--	f-l-oh-er
Nose	naso-	n-ah-s-oh
Nose-Nares	nariθ-	n-ah-er-e-th
Sun	sol--	s-oh-l
Moon	luna	l-u-n-ah
Star	estre-ja	ay-s-t-er-ay-VdPalatalFricative-ah
Water	'a-ywa	ah-juh-w-ah
Rain	j-u-bja	VdPalatalFricative-u-b-jg-ah
Lake	lago-	l-ah-j-oh
Sea	mar-	m-ah-er
Salt	sal--	s-ah-l
Earth	'tje-ra	t-jg-ay-r-ah
Fog	kali--na-	k-ah-l-e-n-ah

Appendix 4 - Word Lists by Language

Fog-Nebula	nje-b-la	n-jg-ay-b-l-ah
Fog-Tenebras	t-injeblas	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
Fire-Focus	fwego-	f-w-ay-g-oh
Year	a-po-	ah-VdPalatalNasal-oh
Name-Nominem	nom-bre-	n-oh-m-b-er-ay
Tongue	'leggwa	l-ay-nya-g-w-ah
ToDrink	beb-er-	b-ay-b-ay-er
ToEat	kome--r-	k-oh-m-ay-er
ToEat-Manducare	mandukar-	m-ah-n-d-u-k-ah-er
ToBite	m-orðer-	m-oh-er-dd-ay-er
ToBite-Morsicare	mo-s-kar-	m-oh-s-k-ah-er
ToSpit-Exconspuere	esku-pir	ay-s-k-u-p-e-er
ToSpit-Sputare	esputar	ay-s-p-u-t-ah-er
ToKnow-Sapere	sab-er-	s-ah-b-ay-er
ToKnow-Cognoscere	ko-noθer-	k-oh-n-oh-th-ay-er
ToThink	kw--idar-	k-w-e-d-ah-er
ToThink-Pensare	pensar-	p-ay-n-s-ah-er
ToFear	temer-	t-ay-m-ay-er
ToFear-Tremere	trem-er-	t-er-ay-m-ay-er
ToSleep	d-ormir-	d-oh-er-m-e-er
ToLive	bibir-	b-e-b-e-er
ToDie	morir-	m-oh-er-e-er
ToKill-Adnecare	a-negar-	ah-n-ay-g-ah-er
ToKill-Mactare	ma-tar-	m-ah-t-ah-er
ToFight	pu-ñar-	p-u-VdPalatalNasal-ah-er
ToFight-Battuere	ba-t-ir-	b-ah-t-e-er
ToHunt-Captiare	ka-θ-ar-	k-ah-th-ah-er
ToHit	pu-xar-	p-u-xha-ah-er
ToCut	s-egar-	s-ay-j-ah-er
ToCut-Curtare	kortar-	k-oh-er-t-ah-er
ToCut-Taliare	ta-x-ar-	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	ra-er-	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	n-adar-	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	and--ar-	ah-n-d-ah-er
ToCome	benir-	b-ay-n-e-er
ToLieAsInABed	ekstender-	ay-k-s-t-ay-n-d-ay-er
ToLieAsInABed-lacere	ja-θer-	VdPalatalFricative-ah-th-ay-er
ToSit	s-e--r-	s-ay-er
ToSit-Sedentare	se--ntar-	s-ay-n-t-ah-er
ToStand	estar-	ay-s-t-ah-er
ToStand-Levare	jebar-	VdPalatalFricative-ay-b-ah-er
ToStand-Altiare	-alθ-ar-	ah-l-th-ah-er
ToTurnIntransitive	tornar-	t-oh-er-n-ah-er

Appendix 4 - Word Lists by Language

ToTurnIntransitive-Gyrare	xirar-	xha-e-er-ah-er
ToTurnIntransitive-AncestralClass3	birar-	b-e-er-ah-er
ToTurnIntransitive-Torquere	torθer-	t-oh-er-th-ay-er
ToFall	k-a-er-	k-ah-ay-er
ToFall-Tumbare	tumbar	t-u-m-b-ah-er
ToHold	ten-er-	t-ay-n-ay-er
ToHold-Segurar	segurar	s-ay-g-u-er-ah-er
ToSqueeze	eksprem-ir-	ay-k-s-p-er-ay-m-e-er
ToSqueeze-Serrere	se-rar	s-ay-r-ah-er
ToSqueeze-Serare	θe-rar-	th-ay-r-ah-er
ToSqueeze-Appetorare	a-p--retar-	ah-p-er-ay-t-ah-er
ToSqueeze-Stringere	estrep-ir-	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	laßar-	l-ah-bb-ah-er
ToWipe-Extergere	e-starsir-	ay-s-t-ah-er-s-e-er
ToWipe-Exsucare	enx-ug-ar-	ay-n-xha-u-g-ah-er
ToWipe-Limpidare	limpj-ar-	l-e-m-p-jg-ah-er
ToPull	tirar-	t-e-er-ah-er
ToPull-Pulsare	pu-xar-	p-u-xha-ah-er
ToThrow	-e-ŋar	ay-ts-ah-er
ToThrow-Lanceare	lanθ-ar-	l-ah-n-th-ah-er
ToThrow-Eruncare	a-rankar	ah-r-ah-n-k-ah-er
ToTie	legar-	l-ay-g-ah-er
ToTie-Aptare	a-tar-	ah-t-ah-er
ToSew	ko--s-er-	k-oh-s-ay-er
ToCount	kon--tar-	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	xu-gar-	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	e-skurir-	ay-s-k-u-r-e-er
ToFlow-Currere	ko-rer-	k-oh-r-ay-er
ToFreeze	-clar-	ay-l-ah-er
ToBurn-Cremare	k-emar-	k-ay-m-ah-er
ToBurn-Flammare	fla-mear	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
ToBurn-Incendere	enθend-er-	ay-n-th-ay-n-d-ay-er
All-Totus	to-do-	t-oh-d-oh
Many	mu-ŋo-	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	o-t-ro	oh-t-er-oh
Big	ma-ŋo-	m-ah-VdPalatalNasal-oh
Big-Grandem	grande-	g-er-ah-n-d-ay
Long-Longum	lo-ngo-	l-oh-n-j-oh
Long-Largum	laryo-	l-ah-er-juh-oh
Wide	lato-	l-ah-t-oh
Wide-Amplum	anŋf-o-	ah-n-ts-oh
Heavy	grabe-	g-er-ah-b-ay

Appendix 4 - Word Lists by Language

Heavy-Lurdus	lerdo-	l-ay-er-d-oh
Heavy-Pesant	pesa-ðo	p-ay-s-ah-dd-oh
Small-Pittinus	pe-kepo-	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	estr-e--fjò-	ay-s-t-er-ay-ts-oh
Thin	menu-do-	m-ay-n-u-d-oh
Thin-Delicatus	del-yaðo-	d-ay-l-juh-ah-dd-oh
Thin-Subtilis	su-til--	s-u-t-e-l
Red-Russus	ro-xo-	r-oh-xha-oh
Red-Vermiculus	bermexo---	b-ay-er-m-ay-xha-oh
Red-Rubeus	ru-bjo-	r-u-b-jg-oh
Green	ber-de-	b-ay-er-d-ay
One	'uno-	u-n-oh
Two-Duos	d-os	d-oh-s
Three	tr-es	t-er-ay-s
Four	kwa-t--ro	k-w-ah-t-er-oh
Five	'θink-o	th-e-n-k-oh
Here	-a-k---i-	ah-k-e
There	a-ja-	ah-VdPalatalFricative-ah
There-Adlbi	ai	ah-e
Who-Quem	kjen-	k-jg-ay-n
What	k-e-	k-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
And-Et	i-	e

Italian

Cognate	IPA	Sounds
I	i--o	e-oh
We	no:i-	n-O-e
YouPlural	'vo:i-	v-O-e
YouSingular	tu	t-u
Woman	femmi-n-a	f-ay-m-m-e-n-ah
Woman-Mulier	moʎʎe---	m-oh-yuh-yuh-ay
Woman-Domina	dɔn-na	d-euh-n-n-ah
ManHumanBeing-Homo	wɔmo	w-euh-m-oh
Child	--fante-	f-ah-n-t-ay
Child-Ninnus	nino	n-e-n-oh
Wife	-spɔ-za	s-p-euh-zz-ah
Wife-Mulier	moʎʎe--	m-oh-yuh-yuh-ay
Husband	marito-	m-ah-r-e-t-oh
Husband-Sponsus	-spɔ-zo-	s-p-euh-zz-oh
Husband-Socius	sɔʎf-o-	s-euh-ts-oh
Mother	ma:dre-	m-A-d-r-ay
Fish-Piskem	peʎʎe-	p-ay-shh-shh-ay
Bird-Avicellum	--u-tʎf-ɛllo-	u-t-ts-eh-l-l-oh
Bird-Passerem	passero-	p-ah-s-s-ay-r-oh
Fruit	fru-tto-	f-r-u-t-t-oh
Flower	'fjo:re-	f-jg-O-er-ay
Nose	na:so-	n-A-s-oh
Nose-Nares	naritʎe	n-ah-r-e-ts-ay

Appendix 4 - Word Lists by Language

Sun	sole-	s-oh-l-ay
Moon	luna	l-u-n-ah
Star	-st-ella	s-t-ay-l-l-ah
Water	akkwa	ah-k-k-w-ah
Rain	pjoddʒ-a	p-jg-oh-d-VdPalatoAlveolarSibilant-ah
Lake	lago-	l-ah-g-oh
Sea	mare	m-ah-r-ay
Salt	sale-	s-ah-l-ay
Earth	't-erra	t-eh-r-r-ah
Fog	kalidʒine-	k-ah-l-e-VdPalatoAlveolarSibilant-e-n-ay
Fog-Nebula	n-ebb-ja	n-ay-b-b-jg-ah
Fog-Tenebrae	tɛːnebre	t-Eh-n-ay-b-r-ay
Fog-Tenebras	t-ɛːn-ebre-	t-Eh-n-ay-b-r-ay
Fog-Fumata	fumaːta	f-u-m-A-t-ah
Sky	'ʃf-elo-	ts-eh-l-oh
Wind	'v-ento-	v-eh-n-t-oh
Fire-Focus	fwoko-	f-w-euh-k-oh
Year	anno-	ah-n-n-oh
Name-Nomen	noːme-	n-O-m-ay
Tongue	'lingwa	l-e-n-g-w-ah
ToDrink	be---re	b-ay-er-ay
ToEat-Manducare	mandʒ--are	m-ah-n-VdPalatoAlveolarSibilant-ah-er-ay
ToBite	m-ordere	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
ToKnow-Sapere	sap-ere	s-ah-p-ay-r-ay
ToKnow-Cognoscere	ko-noʃfere	k-oh-n-oh-shh-shh-ay-r-ay
ToThink	k-odʒitare	k-oh-VdPalatoAlveolarSibilant-e-t-ah-r-ay
ToThink-Pensare	pensare	p-ay-n-s-ah-er-ay
ToFear	temere	t-ay-m-ay-r-ay
ToFear-Tremere	trem-are	t-r-ay-m-ah-r-ay
ToSleep	d-ormire	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	utʃfidere	u-t-ts-e-d-ay-er-ay
ToFight	pugnare	p-u-VdPalatalNasal-VdPalatalNasal-ah-r-ay
ToFight-Battuere	batt-ere	b-ah-t-t-ay-r-ay
ToHunt-Captiare	katʃf-are	k-ah-t-ts-ah-r-ay
ToHit	pulsare	p-u-l-s-ah-r-ay
ToCut	s-egare	s-ay-j-ah-r-ay
ToCut-Excurtare	--skortare	s-k-oh-r-t-ah-r-ay
ToCut-Taliare	ta-ʕʕaːre	t-ah-yuh-yuh-A-r-ay
ToSplit	dividere	d-e-v-e-d-ay-r-ay
ToSplit-Scindere	ʃ-indere	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	p-undʒere	p-u-n-VdPalatoAlveolarSibilant-ay-r-ay
ToStab-Iugulare	jugulaːre	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

Appendix 4 - Word Lists by Language

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	and--are	ah-n-d-ah-r-ay
ToCome	venire	v-ay-n-e-er-ay
ToLieAsInABed	e-stendere	ay-s-t-eh-n-d-ay-r-ay
ToLieAsInABed-lacere	dʒa-ŋe:re	VdPalatoAlveolarSibilant-ah-ts-ai-er-ay
ToSit	s-edere	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-VlAlveolarSibilantAffricate-ah-r-ay
ToTurnIntransitive	tornare	t-oh-r-n-ah-r-ay
ToTurnIntransitive-Gyrare	dʒirare	VdPalatoAlveolarSibilant-e-r-ah-er-ay
ToTurnIntransitive-AncestralClass3	virare	v-e-r-ah-er-ay
ToTurnIntransitive-Torquere	tɔrʃere	t-euh-r-ts-ay-r-ay
ToFall	k-adere	k-ah-d-ay-er-ay
ToHold	ten-ere	t-ay-n-ay-er-ay
ToSqueeze	--sprɛm-ere	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
ToWipe	terdzere	t-eh-r-VdPalatoAlveolarSibilant-ay-r-ay
ToWipe-Exsucare	aʃʃ-ug-are	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-Trahare	trar-re	t-r-ah-r-r-ay
ToPush	impindzere	e-m-p-e-n-VdPalatoAlveolarSibilant-ay-r-ay
ToThrow	dʒettare	VdPalatoAlveolarSibilant-ay-t-t-ah-r-ay
ToThrow-Lanceare	lanʃare	l-ah-n-ts-ah-r-ay
ToThrow-Eruncare	arronʃare	ah-r-r-oh-n-ts-ah-r-ay
ToTie	legare	l-ay-g-ah-r-ay
ToSew	ku--ʃ-ire	k-u-ts-e-r-ay
ToCount	kon--tare	k-oh-n-t-ah-r-ay
ToCount-Enumerare	enumerare	ay-n-u-m-ay-r-ah-r-ay
ToSay	di--re	d-e-r-ay
ToSay-Exponere	--spor-re	s-p-oh-r-r-ay
ToSing-AncestralClass	kantare	k-ah-n-t-ah-r-ay
ToPlay-Jiocare	dʒo-kare	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	gʲatʃʲare	g-jg-ah-t-ts-jg-ah-r-ay
ToBurn-Brojan	bruʃare	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	inʃendjare	e-n-ts-eh-n-d-jg-ah-r-ay
ToBurn-AncestralClass8	ustolare	u-s-t-oh-l-ah-r-ay
All	ɔpni-	oh-VdPalatalNasal-VdPalatalNasal-e
All-Totus	tutto-	t-u-t-t-oh

Appendix 4 - Word Lists by Language

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	alt-ro	ah-l-t-r-oh
Big	mappo-	m-ah-VdPalatalNasal-VdPalatalNasal-oh
Big-Grandem	grande-	g-r-ah-n-d-ay
Long-Longum	lu-ngo-	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
Heavy	grève-	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	pitjino-	p-e-t-ts-e-n-oh
Small-Pitulus	pikkolo-	p-e-k-k-oh-l-oh
Short	korto-	k-oh-r-t-oh
Short-Brevis	brève-	b-r-eh-v-ay
Narrow	angusto-	ah-n-g-u-s-t-oh
Narrow-Strictus	-str-e-tto-	s-t-r-ay-t-t-oh
Thin	minu-to-	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
Red	rub-ro	r-u-b-r-oh
Red-Russus	rosso-	r-oh-s-s-oh
Red-Vermiculus	vermił-ło-	v-ay-r-m-e-yuh-yuh-oh
Red-Rubeus	røbbjo-	r-euh-b-b-jg-oh
Green	ver-de-	v-ay-r-d-ay
One	'uno-	u-n-oh
Two-Duae	du-e	d-u-ay
Three	'tr-e-	t-r-ay
Four	kwatt--ro	k-w-ah-t-t-r-oh
Five	'fjɪŋkwe	ts-e-nya-k-w-ay
Here	---kw--i-	k-w-e
There	--la-	l-ah
There-Ibi	-vi	v-e
Who-Qui	k-i-	k-e
What	k-e-	k-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
And-Et	e-	ay

Brazilian Portuguese

Cognate	IPA	Sounds
I	-e-w	ay-w
We	noj-s	n-euh-jg-s
YouPlural	vojs	v-euh-jg-s
YouSingular	tu	t-u
YouSingular-VostramMercedem	vos-e-	v-oh-s-ay
Woman	fe-me---ø	f-ay-m-ay-ahh
Woman-Mulier	muł-eɤ--	m-u-yuh-ay-rr
Woman-Domina	do--nø	d-oh-n-ahh
ManHumanBeing	omẽj---	oh-m-nasal diphthong portuguese1

Appendix 4 - Word Lists by Language

Child	ĩ-fẽ-ŋĩ-	een-f-ahn-ts-e
Child-Ninnus	nenẽj	n-ay-n-nasal_diphthong_portuguese1
Wife	ispo-za	e-s-p-oh-zz-ah
Wife-Mulier	muł-ek-	m-u-yuh-ay-rr
Husband	maridu-	m-ah-er-e-d-u
Husband-Sponsus	ispo-zu-	e-s-p-oh-zz-u
Mother	mẽj----	m-nasal_diphthong_portuguese2
Fish-Piskem	pej[-i-	p-ej_diphthong-shh-e
Bird-Avem	avi-	ah-v-e
Bird-Passerem	pa-sɐru-	p-ah-s-ahh-er-u
Fruit	fru--tə-	f-er-u-t-ahh
Flower	flok--	f-l-oh-rr
Nose-Nares	naris-	n-ah-er-e-s
Sun	sow--	s-euh-w
Moon	lu-ə	l-u-ahh
Star	istre-lə	e-s-t-er-ay-l-ahh
Water	'a-gwə	ah-g-w-ahh
Rain	ʃ-u-v-ə	shh-u-v-ahh
Lake	lagu-	l-ah-g-u
Sea	maɤ-	m-ah-rr
Salt	saw--	s-ah-w
Earth	't-e-ɤə	t-ay-rr-ahh
Fog	kalizẽj---	k-ah-l-e-gzah-nasal_diphthong_portuguese1
Fog-Nebula	n-ɛ-vw-ə	n-eh-v-w-ahh
Fog-Fumata	fumasə	f-u-m-ah-s-ahh
Sky	s-ɛw--	s-eh-w
Wind	'v-ẽ-tu-	v-ehn-t-u
Fire-Focus	f-ogu-	f-oh-g-u
Year	ə-nu-	ahh-n-u
Name-Nomen	nomi-	n-oh-m-e
Tongue	'li-gwə	l-een-g-w-ahh
ToDrink	beb-ek-	b-ay-b-ay-rr
ToEat	kome---	k-oh-m-ay
ToEat-Manducare	mẽ-ʒ--ak-	m-ahn-gzah-ah-rr
ToBite	m-okdek-	m-oh-rr-d-ay-rr
ToBite-Morsicare	mu-səga--	m-u-s-aah-g-ah
ToSuck	sugaɤ-	s-u-g-ah-rr
ToSpit	ku-spiɤ	k-u-s-p-e-rr
ToKnow-Sapere	sab-ek-	s-ah-b-ay-rr
ToKnow-Cognoscere	ko-ɲes-ek-	k-oh-VdPalatalNasal-ay-s-ay-rr
ToThink	k-uʒitaɤ-	k-u-gzah-e-t-ah-rr
ToThink-Pensare	pẽ-saɤ-	p-ehn-s-ah-rr
ToFear	temek-	t-ay-m-ay-rr
ToFear-Tremere	trem-ek-	t-er-ay-m-ay-rr
ToSleep	d-okmiɤ-	d-oh-rr-m-e-rr
ToLive	viveɤ-	v-e-v-ay-rr
ToDie	moɤek-	m-oh-rr-ay-rr
ToKill-Mactare	ma-taɤ-	m-ah-t-ah-rr
ToFight-Battuere	ba-t-ek-	b-ah-t-ay-rr
ToHunt-Captiare	ka-s-aɤ-	k-ah-s-ah-rr
ToHit	pu-ʃaɤ-	p-u-shh-ah-rr
ToCut	s-egaɤ-	s-ay-g-ah-rr
ToCut-Curtare	kogtaɤ-	k-oh-rr-t-ah-rr
ToCut-Taliare	ta-ʃ-aɤ-	t-ah-yuh-ah-rr
ToSplit	dʒividʒiɤ-	VdPalatoAlveolarSibilant-e-v-e-VdPalatoAlveolarSibilant-e-rr
ToSplit-Findere	fẽ-deɤ-	f-ehn-d-ay-rr
ToSplit-Partire	paɤʃiɤ-	p-ah-rr-ts-e-rr

Appendix 4 - Word Lists by Language

ToSplit-Separare	separaκ-	s-ay-p-ah-er-ah-rr
ToStab	p-ũ-zik-	p-ooo-gzah-e-rr
ToScratch	ka-ek-	rr-ah-ay-rr
ToScratch-Rasare	kazak-	rr-ah-zz-ah-rr
ToScratch-Rasicare	kaʃkaκ	rr-ah-shh-k-ah-rr
ToScratch-Coctiare	kosaɫ	k-oh-s-ah-VdRetroflexApproximant
ToDig-Cavare	kəvaκ	k-ahh-v-ah-rr
ToDig-Excavare	i-ʃkəvaκ-	e-shh-k-ahh-v-ah-rr
ToSwim	n-adak-	n-ah-d-ah-rr
ToSwim-Navigare	naviyaκ-	n-ah-v-eee-juh-ah-rr
ToFly	vo-aκ-	v-oh-ah-rr
ToWalk	kəmiɲaκ-	k-ahh-m-e-VdPalatalNasal-ah-rr
ToWalk-Ambitare	ẽ-d-aκ-	ahn-d-ah-rr
ToCome	v-iκ-	v-e-rr
ToLieAsInABed	istẽ-deκ-	e-s-t-ehn-d-ay-rr
ToLieAsInABed-lacere	zə-zeκ-	gzah-ahh-zz-ay-rr
ToSit	s-e--κ-	s-ay-rr
ToSit-Sedentare	sẽ---tar-	s-ehn-t-ah-er
ToStand	iʃtar-	eee-shh-t-ah-er
ToStand-Levare	levaκ-	l-ay-v-ah-rr
ToStand-Altiare	-aʃs-a--	ah-ssha-s-ah
ToTurnIntransitive	toκnaκ-	t-oh-rr-n-ah-rr
ToTurnIntransitive-Gyrare	ziraɾ-	gzah-e-er-ah-er
ToTurnIntransitive-AncestralClass3	viɾaɾ-	v-e-er-ah-er
ToTurnIntransitive-Torquere	turser-	t-u-r-s-ay-r
ToFall	k-ə-ir-	k-ahh-e-er
ToFall-Tumbare	tõ-baκ	t-on-b-ah-rr
ToHold	te---κ-	t-ay-rr
ToHold-Segurar	siguraκ	s-eee-g-u-er-ah-rr
ToSqueeze	i-ʃpɾəm-ek-	e-shh-p-r-aah-m-ay-rr
ToSqueeze-Serrere	se-ka--	s-ay-rr-ah
ToSqueeze-Serare	si-kaɾ-	s-eee-rr-ah-er
ToSqueeze-Appetorare	ə-pi-r-tar-	ahh-p-eee-er-t-ah-er
ToSqueeze-Stringere	əʃtri-zir-	aah-shh-t-r-een-gzah-e-r
ToRub-Exfricare	iʃfrigaɾ	eee-shh-f-er-eee-g-ah-er
ToWash	leɪaɾ-	l-ahh-v-ah-er
ToWipe-Exsucare	ẽ-ʃ-ug-aɾ-	ehn-shh-u-g-ah-er
ToWipe-Limpidare	li-p--aɾ-	l-een-p-ah-er
ToPull	ʃiɾa--	ts-e-er-ah
ToPull-Pulsare	pu-ʃaɾ-	p-u-shh-ah-er
ToPull-Trahere	traze--	t-er-ah-zz-ay
ToThrow	zejtaɾ	gzah-ej_diphthong-t-ah-er
ToThrow-Lanceare	lɐ-s-a--	l-ahn-s-ah
ToTie-Aptare	ə-taɾ-	ahh-t-ah-er
ToSew	ku--z-er-	k-u-zz-ay-er
ToCount	kõ---tar-	k-on-t-ah-er
ToCount-Enumerare	enumerar-	ay-n-u-m-ay-er-ah-er
ToSay	diz-er	d-e-zz-ay-er
ToSing-AncestralClass	kẽ-taɾ-	k-ahn-t-ah-er
ToPlay-Jiocare	zo-gaκ-	gzah-oh-g-ah-rr
ToFloat	flu-tuaκ-	f-l-u-t-u-ah-rr
ToFlow	flwiκ-	f-l-w-e-rr
ToFlow-Colare	ko-aκ-	k-oh-ah-rr
ToFlow-Excurrere	i-ʃko-keκ-	e-shh-k-oh-rr-ay-rr
ToFlow-Currere	ko-keκ-	k-oh-rr-ay-rr
ToFreeze	zilaɾ-	gzah-eee-l-ah-er
ToBurn-Cremare	k-ejmare	k-diphthong_portuguese-m-ah-er-ay

Appendix 4 - Word Lists by Language

ToBurn-Ardere	akdek-	ah-rr-d-ay-rr
ToBurn-Flagrare	flagrak-	f-l-ah-j-rr-ah-rr
ToBurn-Incendere	i-sendɟiar-	een-s-ay-n-VdPalatoAlveolarSibilant-NearCloseFrontUnrounded -ah-er
All-Totus	to-du-	t-oh-d-u
Many	mũj-tu	m-ooo-jn-t-u
Many-Tantus	tɐ-tu	t-ahn-t-u
Some	awgũ--	ah-w-g-ooo
Few	powku	p-oh-w-k-u
Other	owt-ru	oh-w-t-er-u
Other-Alius	aw---	ah-w
Big-Grandem	grẽ-dɟi-	g-er-ahn-VdPalatoAlveolarSibilant-e
Long-Longum	lõ-gu-	l-on-g-u
Long-Largum	laɣgu-	l-ah-rr-g-u
Wide	latu-	l-ah-t-u
Wide-Amplum	ẽ-f-u-	ahn-shh-u
Heavy	gravi-	g-er-ah-v-e
Heavy-Lurdus	lerdo-	l-ay-er-d-oh
Heavy-Pesant	peza-du	p-ay-zz-ah-d-u
Small-Pittinus	pe-kenu-	p-ay-k-ay-n-u
Short	kugtu-	k-u-rr-t-u
Short-Brevis	'brevi-	b-er-eh-v-e
Narrow-Strictus	istr-ej--tu-	e-s-t-er-ej_diphthong-t-u
Thin	mi-u-du-	m-e-u-d-u
Thin-Delicatus	dew-gadu-	d-ay-w-g-ah-d-u
Thin-Subtilis	su-ɟiɥw--	s-u-ts-e-w
Red-Russus	ɤo-ʃu-	rr-oh-shh-NearCloseBackRounded
Red-Vermiculus	veɣme--ʃu-	v-ay-rr-m-ay-yuh-u
Red-Rubeus	ru-beo-	r-u-b-ay-oh
Green	ver-di-	v-ay-er-d-eee
One	ũ---	ooo
Two-Duos	d-ojs	d-oj_diphthong-s
Two-Duas	duɐs	d-u-ahh-s
Three	tr-es	t-er-ay-s
Four	kwa-t--ru	k-w-ah-t-er-u
Five	'sĩ-k-u	s-een-k-u
Here	-a-k---i-	ah-k-e
There	--la-	l-ah
There-Adlbi	ai	ah-e
Who-Quem	k-ẽɟ--	k-nasal_diphthong_portuguese1
What	k-i-	k-e
When-Quando	kwẽ-du	k-w-ahn-d-u
How-Quomodo	komu--	k-oh-m-u
Not	nẽw	n-au_diphthong_nasal
Not-Nec	nẽɟ	n-nasal_diphthong_portuguese1
And-Et	i-	e

Portuguese

Cognate	IPA	Sounds
I	-e-w	ay-w
We	nɔ-ʃ	n-euh-shh
YouPlural	vo-ʃ	v-oh-shh
YouSingular	tu	t-u
YouSingular-VostramMercedem	vɔs-e-	v-euh-s-ay
Woman	'fe-mj---ɐ	f-ay-m-jg-ahh

Appendix 4 - Word Lists by Language

Woman-Mulier	muʎ-er--	m-u-yuh-ay-er
Woman-Domina	do--nə	d-oh-n-ahh
ManHumanBeing	ɔmɛj---	euh-m-nasal_diphthong_portuguese1
Child	ĩ-fɛ-ti-	een-f-ahn-t-eee
Child-Ninnus	nenɛj	n-ay-n-nasal_diphthong_portuguese1
Wife	ifpo-zɐ	eee-shh-p-oh-zz-ahh
Wife-Mulier	muʎ-er-	m-u-yuh-ay-er
Husband	mɛriðu-	m-ahh-er-e-dd-u
Husband-Sponsus	ifpo-zu-	eee-shh-p-oh-zz-u
Mother	mɛj----	m-nasal_diphthong_portuguese2
Fish-Piskem	pɛjɟ-i-	p-diphthong_portuguese-shh-eee
Bird-Avem	avi-	ah-v-eee
Bird-Passerem	pa-sɛru-	p-ah-s-ahh-er-u
Fruit	fru--tɐ-	f-er-u-t-ahh
Flower	flor--	f-l-oh-er
Nose-Nares	nɛɾiɟ-	n-ahh-er-e-shh
Sun	sɔʎ--	s-euh-ssha
Moon	lu-ɐ	l-u-ahh
Star	iftrɛ-lɐ	eee-shh-t-er-ay-l-ahh
Water	'a-gwɐ	ah-g-w-ahh
Rain	ɟ-u-v-ɐ	shh-u-v-ahh
Lake	layu-	l-ah-juh-u
Sea	mar-	m-ah-er
Salt	sal--	s-ah-l
Earth	't-ɛ-ɾɐ	t-eh-rr-ahh
Fog	kɛliɟɛj---	k-ahh-l-e-gzah-nasal_diphthong_portuguese2
Fog-Nebula	n-ɛ-vw-ɐ	n-eh-v-w-ahh
Fog-Tenebras	tr---ɛv-ɛɟ	t-er-eh-v-ahh-shh
Fog-Fumata	fumasɐ	f-u-m-ah-s-ahh
Sky	s-ɛw--	s-eh-w
Wind	'v-ɛ-tu-	v-ehn-t-u
Fire-Focus	f-oɣu-	f-oh-juh-u
Year	ɐ-nu-	ahh-n-u
Name-Nomen	nomi-	n-oh-m-eee
Tongue	'li-gwɐ	l-een-g-w-ahh
ToDrink	biɟ-er-	b-eee-bb-ay-er
ToEat	kum--er-	k-u-m-ay-er
ToEat-Manducare	mɛ-ɟ--ar-	m-ahn-gzah-ah-er
ToBite	m-urðer-	m-u-er-dd-ay-er
ToBite-Morsicare	mu-sɛgar-	m-u-s-aah-g-ah-r
ToSuck	sugar-	s-u-g-ah-er
ToSpit	ku-ɟpir	k-u-shh-p-e-er
ToKnow-Sapere	sɛb-er-	s-ahh-b-ay-er
ToKnow-Cognoscere	ku-pis-er-	k-u-VdPalatalNasal-eee-s-ay-er
ToThink	k-uɟitar-	k-u-gzah-e-t-ah-er
ToThink-Pensare	pɛ-sar-	p-ehn-s-ah-er
ToFear	timer-	t-eee-m-ay-er
ToFear-Tremere	trɪm-er-	t-er-eee-m-ay-er
ToSleep	d-urmir-	d-u-er-m-e-er
ToLive	viver-	v-e-v-ay-er
ToDie	mukɛr-	m-u-rr-ay-er
ToKill-Mactare	mɛ-tar-	m-ahh-t-ah-er
ToFight-Battuere	bɛ-t-er-	b-ahh-t-ay-er
ToHunt-Captiare	kɛ-s-ar-	k-ahh-s-ah-er
ToHit	pu-ɟar-	p-u-shh-ah-er
ToCut	s-iyar-	s-eee-juh-ah-er
ToCut-Curtare	kurtar-	k-u-er-t-ah-er

Appendix 4 - Word Lists by Language

ToCut-Taliare	tə-ʎ-ar-	t-ahh-yuh-ah-er
ToSplit	diviðir-	d-e-v-e-dd-e-er
ToSplit-Findere	fē-der-	f-ehn-d-ay-er
ToSplit-Partire	pərtir-	p-ahh-er-t-e-er
ToSplit-Separare	sipərar-	s-eee-p-ahh-er-ah-er
ToStab	p-ū-zir-	p-ooo-gzah-e-er
ToScratch	ʁə-er-	rr-ahh-ay-er
ToScratch-Rasare	ʁəzar-	rr-ahh-zz-ah-er
ToScratch-Rasicare	ʁəʃkar	rr-ahh-shh-k-ah-er
ToScratch-Coctiare	kusar	k-u-s-ah-er
ToDig-Cavare	kəvar	k-ahh-v-ah-er
ToDig-Excavare	i-ʃkəvar-	e-shh-k-ahh-v-ah-er
ToSwim	n-əðar-	n-ahh-dd-ah-er
ToSwim-Navigare	nəviyar-	n-ahh-v-eee-juh-ah-er
ToFly	vʷ-ar-	v-w-ah-er
ToWalk	kəmipar-	k-ahh-m-e-VdPalatalNasal-ah-er
ToWalk-Ambitare	ẽ-d--ar-	ahn-d-ah-er
ToCome	v--ir-	v-e-er
ToLieAsInABed	iʃtē-der-	e-shh-t-ehn-d-ay-er
ToLieAsInABed-lacere	ʒə-zər-	gzah-ahh-zz-ay-er
ToSit	s-e--r-	s-ay-er
ToSit-Sedentare	sē---tar-	s-ehn-t-ah-er
ToStand	iʃtar-	eee-shh-t-ah-er
ToStand-Levare	livar-	l-eee-v-ah-er
ToStand-Altiare	-aʎs-ar-	ah-ssha-s-ah-er
ToTurnIntransitive	turnar-	t-u-er-n-ah-er
ToTurnIntransitive-Gyrare	ʒirar-	gzah-e-er-ah-er
ToTurnIntransitive-AncestralClass3	ʒirar-	gzah-e-er-ah-er
ToTurnIntransitive-Torquere	turser-	t-u-r-s-ay-r
ToFall	k-ə-ir-	k-ahh-e-er
ToFall-Tumbare	tō-bar	t-on-b-ah-er
ToHold	te---r-	t-ay-er
ToHold-Segurar	siɣurar	s-eee-juh-u-er-ah-er
ToSqueeze	i-ʃprəm-er-	e-shh-p-r-aah-m-ay-r
ToSqueeze-Serrere	sə-rar-	s-aah-VIUvularTrill-ah-er
ToSqueeze-Serare	si-ʁar-	s-eee-rr-ah-er
ToSqueeze-Appetorare	ə-pi-r-tar-	ahh-p-eee-er-t-ah-er
ToSqueeze-Stringere	əʃtrɪʒir-	aah-shh-t-r-een-gzah-e-r
ToRub-Exfricare	iʃfriyar	eee-shh-f-er-eee-juh-ah-er
ToWash	lɐvar-	l-ahh-v-ah-er
ToWipe-Exsucare	ẽ-f-uɣ-ar-	ehn-shh-u-juh-ah-er
ToWipe-Limpidare	lĩ-p--ar-	l-eeen-p-ah-er
ToPull	tirar-	t-e-er-ah-er
ToPull-Pulsare	pu-ʃar-	p-u-shh-ah-er
ToPull-Trahere	trɛzer-	t-er-ahh-zz-ay-er
ToThrow	ʒejtar	gzah-ej_diphthong-t-ah-er
ToThrow-Lanceare	lɐ-s-ar-	l-ahn-s-ah-er
ToTie-Aptare	ə-tar-	ahh-t-ah-er
ToSew	ku--z-er-	k-u-zz-ay-er
ToCount	kō---tar-	k-on-t-ah-er
ToCount-Enumerare	enumerar-	ay-n-u-m-ay-er-ah-er
ToSay	diz-er	d-e-zz-ay-er
ToSing-AncestralClass	kə-tar-	k-ahn-t-ah-er
ToPlay-Jiocare	ʒu-ɣar-	gzah-u-juh-ah-er
ToFloat	flu-tuar-	f-l-u-t-u-ah-er
ToFlow	flwir-	f-l-w-e-er
ToFlow-Colare	ku-ar-	k-u-ah-er

Appendix 4 - Word Lists by Language

ToFlow-Excurrere	i-ʃku-rer-	e-shh-k-u-VIUvularTrill-ay-er
ToFlow-Currere	ku-ʁer-	k-u-rr-ay-er
ToFreeze	ʒilar-	gzah-eee-l-ah-er
ToBurn-Cremare	k-ejmaʁe	k-ej_diphthong-m-ah-rr-ay
ToBurn-Ardere	ʁrder-	ahh-er-d-ay-er
ToBurn-Flagrare	flagrar-	f-l-ah-g-er-ah-er
ToBurn-Incendere	ĩ-sẽ-djar-	een-s-ehn-d-jg-ah-er
All-Totus	to-ðu-	t-oh-dd-u
Many	mũj-tu	m-ooo-jn-t-u
Many-Tantus	tẽ-tu-	t-ahn-t-u
Some	ałgũ--	ah-ssha-g-ooo
Few	powku	p-oh-w-k-u
Other	owt-ru	oh-w-t-er-u
Other-Alius	ał---	ah-ssha
Big-Grandem	grẽ-di-	g-er-ahn-d-eee
Long-Longum	lõ-gu-	l-on-g-u
Long-Largum	largu-	l-ah-er-g-u
Wide	latu-	l-ah-t-u
Wide-Amplum	ẽ-ʃ-u-	ahn-shh-u
Heavy	gravi-	g-er-ah-v-eee
Heavy-Lurdus	lerdo-	l-ay-er-d-oh
Heavy-Pesant	piza-ðu	p-eee-zz-ah-dd-u
Small-Pittinus	pi-kenu-	p-eee-k-ay-n-u
Short	kurtu-	k-u-er-t-u
Short-Brevis	'brevi-	b-er-eh-v-eee
Narrow-Strictus	iftr-ẽj--tu-	eee-shh-t-er-diphthong_portuguese-t-u
Thin	mi-u-ðu-	m-e-u-dd-u
Thin-Delicatus	deł-ʔaðu-	d-eh-ssha-juh-ah-dd-u
Thin-Subtilis	su-ʃiŋw--	s-u-ts-e-w
Red-Russus	ʁo-ʃu-	rr-oh-shh-u
Red-Vermiculus	virmej--ʃu-	v-eee-er-m-diphthong_portuguese-yuh-u
Red-Rubeus	ru-beo-	r-u-b-ay-oh
Green	ver-di-	v-ay-er-d-eee
One	ũ---	ooo
Two-Duos	d-ojʃ	d-oj_diphthong-shh
Two-Duas	duɐʃ	d-u-ahh-shh
Three	tr-eʃ	t-er-ay-shh
Four	kwa-t--ru	k-w-ah-t-er-u
Five	'sĩ-k-u	s-een-k-u
Here	-v-k---i-	ahh-k-e
There	--la-	l-ah
There-Adlbi	vi	ahh-e
Who-Quem	k-ẽj--	k-nasal_diphthong_portuguese2
What	k-i-	k-eee
When-Quando	kwẽ-du	k-w-ahn-d-u
How-Quomodo	kõmu--	k-oh-m-u
Not	nẽw	n-au_diphthong_nasal
Not-Nec	nẽj	n-nasal_diphthong_portuguese2
And-Et	i-	e

Catalan

Cognate	IPA	Sounds
I	ʒ--ɔ	gzah-euh
YouPlural	bu-s	b-u-s
YouSingular	tu	t-u

Appendix 4 - Word Lists by Language

YouSingular-VostramMercedem	voste-	v-oh-s-t-ay
Woman	fe-m-br-a	f-ay-m-b-er-ah
Woman-Mulier	muλ-e---	m-u-yuh-ay
Woman-Domina	dɔ--nə	d-euh-n-aah
ManHumanBeing	-ɔmə---	euh-m-aah
Child-Ninnus	nen-	n-ay-n
Wife	əspɔ-zə	aah-s-p-euh-zz-aah
Wife-Mulier	muλ-e-	m-u-yuh-ay
Husband	marit--	m-ah-er-e-t
Husband-Sponsus	əspɔ-s--	aah-s-p-euh-s
Mother	ma-rə-	m-ah-er-aah
Fish-Piskem	pef---	p-ay-shh
Bird-Avem	aw--	ah-w
Bird-Avicellum	--u--s-e-λ--	u-s-ay-yuh
Fruit	fruj-t--	f-er-u-jg-t
Flower	flɔ---	f-l-euh
Nose	nas	n-ah-s
Nose-Nares	na:ris-	n-A-r-NearCloseFrontUnrounded-s
Sun	sɔl--	s-euh-l
Moon	λunə	yuh-u-n-aah
Star	əst-ɛ-l-	aah-s-t-eh-l
Water	'aj-ɣwə	aj_diphthong-juh-w-aah
Rain	plu-ɜ-ə	p-l-u-gzah-aah
Lake	λak--	yuh-ah-k
Sea	mar-	m-ah-r
Salt	sal--	s-ah-l
Earth	't-ɛ-rə	t-eh-r-aah
Fog-Nebula	n-e--wlə	n-ay-w-l-aah
Fog-Tenebras	t-ən-ebɾəs	t-aah-n-ay-b-er-aah-s
Sky	s-ɛl--	s-eh-l
Wind	b-en---	b-ay-n
Fire-Focus	f-ɔk--	f-euh-k
Year	a-ɲ--	ah-VdPalatalNasal
Name-Nomen	nɔm--	n-euh-m
ToDrink	bew--rə	b-eh-w-er-aah
ToEat-Manducare	məɲɜ--a--	m-aah-VdPalatalNasal-gzah-ah
ToBite-Morsicare	mu-səɣa--	m-u-s-aah-juh-ah
ToSpit-Exconspuere	əsku-pi	aah-s-k-u-p-e
ToKnow-Sapere	səβ-ɛ--	s-aah-bb-eh
ToKnow-Cognoscere	ku-nef-ə--	k-u-n-eh-shh-aah
ToThink	k-u-jda--	k-u-jg-d-ah
ToThink-Pensare	pənsa--	p-aah-n-s-ah
ToFear	temə--	t-ay-m-aah
ToSleep	d-urmi--	d-u-r-m-e
ToLive	biw-rə	b-e-w-er-aah
ToDie	muri--	m-u-er-e
ToKill	n-əga--	n-aah-g-ah
ToKill-Mactare	mə-ta--	m-aah-t-ah
ToKill-Occidere	uksi----	u-k-s-e
ToFight	pu-ɲa--	p-u-VdPalatalNasal-ah
ToFight-Battuere	ba-t--rə	b-ah-t-er-aah
ToHunt-Captiare	kə-s-a--	k-aah-s-ah
ToCut	s-əɣa--	s-aah-juh-ah
ToCut-Taliare	tə-λ-a--	t-aah-yuh-ah
ToSplit	dibidi--	d-e-b-e-d-e
ToSplit-Findere	fend-rə	f-eh-n-d-er-aah
ToSplit-Partire	pərti--	p-aah-r-t-e

Appendix 4 - Word Lists by Language

ToSplit-Separare	səpəra--	s-aah-p-aah-er-ah
ToStab	p-ʊn-i--	p-u-VdPalatalNasal-e
ToScratch	raw-rə	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	n-əda--	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	ə-stend-rə	aah-s-t-ay-n-d-er-aah
ToLieAsInABed-lacere	zaw--rə	gzah-ah-w-er-aah
ToStand	əsta--	aah-s-t-ah
ToStand-Levare	ləba--	yuh-aah-b-ah
ToStand-Altiare	-əls-a--	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-Torquere	tərsə--	t-euh-r-s-aah
ToFall	k-aw-rə	k-ah-w-r-aah
ToFall-Tumbare	tumba-	t-u-m-b-ah
ToHold	tən-i--	t-aah-n-e
ToSqueeze	ə-sprem-ə--	aah-s-p-er-ay-m-aah
ToSqueeze-Serrere	sə-ra--	s-aah-r-ah
ToSqueeze-Stringere	əstrɛpə	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	ə-stəɾzi--	aah-s-t-aah-r-gzah-e
ToWipe-Exsucare	ə-f-uga--	aah-shh-u-g-ah
ToPull	tira--	t-e-er-ah
ToPull-Trahere	tɾew-rə	t-er-eh-w-er-aah
ToPush	əmpɛp-ə--	aah-m-p-eh-VdPalatalNasal-aah
ToThrow	xita	xha-e-t-ah
ToThrow-Lanceare	ləns-a--	yuh-aah-n-s-ah
ToTie	liɣa--	yuh-e-juh-ah
ToSew	ku--z-i--	k-u-zz-e
ToCount	kum--ta--	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	zu-ga--	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	ə-sko-rə--	aah-s-k-oh-r-aah
ToFlow-Currere	ko-rə--	k-oh-r-aah
ToFreeze	zəla--	gzah-aah-l-ah
ToFreeze-Glaciare	glə-s-a--	g-l-aah-s-ah
ToBurn-Cremare	krəma--	k-r-aah-m-ah
ToBurn-Flammare	flama--	f-ssha-ah-m-ah
ToBurn-Incendere	ənsend--rə	aah-n-s-ay-n-d-er-aah
All-Totus	to-t--	t-oh-t
Many	mol---	m-oh-l
Many-Tantus	tant--	t-ah-n-t
Some	əlgʊ--	aah-l-g-u

Appendix 4 - Word Lists by Language

Few	pək--	p-euh-k
Other	alt-rə	ah-l-t-er-aah
Big-Grandem	gran---	j-r-ah-n
Long-Longum	lɔ-ŋ---	yuh-oh-nya
Long-Largum	lark--	yuh-ah-er-k
Wide-Amplum	amplə-	ah-m-p-l-aah
Heavy	grew--	g-er-ay-w
Heavy-Pesant	pəza-t-	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	əstr-ɛ--t--	aah-s-t-er-eh-t
Thin	mənu-t--	m-aah-n-u-t
Thin-Delicatus	dəlikat--	d-aah-l-e-k-ah-t
Thin-Subtilis	suptil--	s-u-p-t-e-l
Red-Russus	ro-s--	r-oh-s
Red-Vermiculus	bərmɛ--ʌ--	b-aah-r-m-eh-yuh
Red-Rubeus	ru-dʒe--	r-u-VdPalatoAlveolarSibilant-ay
Green	vɛr-t--	v-eh-er-t
One	'un--	u-n
Two-Duos	d-os	d-oh-s
Three	'tr-ɛs	t-r-eh-s
Four	kwa-t--rə	k-w-ah-t-er-aah
Five	'sɪŋk--	s-e-nya-k
Here	-a-k---i-	ah-k-e
There	ə-ʌa-	aah-yuh-ah
Who-Qui	k-i-	k-e
What	k-ɛ-	k-eh
When-Quando	kwan	k-w-ah-n
How-Quomodo	kɔm---	k-euh-m
Not	no-	n-oh
Not-Nec	ni-	n-e
And-Et	i-	e

Walloon

Cognate	IPA	Sounds
I	dʒɪ--	VdPalatoAlveolarSibilant-NearCloseFrontUnrounded
We	no--	n-oh
YouPlural	vo-s	v-oh-s
YouSingular	ty	t-eeh
Woman	fœ-m-----	f-OpenMidNearFrontRounded-m
Woman-Domina	dœm---	d-OpenMidNearFrontRounded-m
ManHumanBeing	-ɔm----	euh-m
Child	ɛ-fɑ-----	eh-f-NasalA
Mother	mɛ-r--	m-ay-VIUvularTrill
Fish-Pescion	p-ɛhð	p-eh-h-on
Bird-Avicellum	--u:-h-ɛ:----	U-h-Eh
Fruit	fry-----	f-VIUvularTrill-eeh
Flower	flø:ʁ--	f-l-o-rr
Nose	nɛ---	n-ay
Sun	sɔlɔ-	s-euh-l-euh
Moon	løn-	l-uu-n
Star	-st-ø:-l-	s-t-o-l
Water	ɛ:-w-	Eh-w
Rain	plu:-ʁ--	p-l-U-rr

Appendix 4 - Word Lists by Language

Lake	lak--	l-ah-k
Sea	meɣ-	m-ay-rr
Salt	se---	s-ay
Earth	t-ɛ:-ɣ-	t-Eh-rr
Sky	s-i:ɣ--	s-E-rr
Wind	v-ẽ----	v-ehn
Fire-Focus	f-ø:---	f-o
Year	ã----	NasalA
Name-Nomen	nõ---	n-on
Tongue	lẽu_---	l-eu_nasalized_diphthong
ToDrink	b---ø:ɣ-	b-o-rr
ToEat-Manducare	maɲ---i:--	m-ah-VdPalatalNasal-E
ToSuck	sysi:--	s-eeh-s-E
ToKnow-Sapere	sav-ø:R-	s-ah-v-o-VIUvularTrill
ToKnow-Cognoscere	ki-nõh----	k-e-n-euh-h
ToThink-Pensare	pẽ-se--	p-ehnn-s-ay
ToSleep	dwaɣmi--	d-w-ah-rr-m-e
ToDie	mõri--	m-euh-VIUvularTrill-e
ToKill-Tutari	tuw-e--	t-u-w-ay
ToFight-Battuere	bat-e--	b-ah-t-ay
ToHunt-Captiare	ʃɛ-s-i:--	ts-eh-s-E
ToCut-Taliare	tɛ--ji:--	t-eh-jg-E
ToSplit-Findere	fɛ-t--	f-ehnn-t
ToSplit-Partire	pɔ:rti--	p-LongOpenMidBackRounded-VIUvularTrill-t-e
ToDig-Cavare	çɑ:v-le	sh-aay-v-l-ay
ToSwim-Navigare	nɛ--dʒi:--	n-eh-VdPalatoAlveolarSibilant-E
ToFly	vøle--	v-euh-l-ay
ToWalk	ʃimine--	ts-e-m-e-n-ay
ToWalk-Marcher	ma:Rʃi:	m-A-VIUvularTrill-ts-E
ToCome	vini--	v-e-n-e
ToLieAsInABed-lacere	dʒe--re	VdPalatoAlveolarSibilant-ay-r-ay
ToStand	ɛs----	eh-s
ToStand-Levare	løve--	l-aah-v-ay
ToStand-Altiare	hɔ:-s-i:	h-LongOpenMidBackRounded-s-E
ToTurnIntransitive	tu:rne-	t-U-r-n-ay
ToTurnIntransitive-AncestralClass3	viɣe--	v-e-rr-ay
ToFall	ʃf-ɛ:--R-	ts-Eh-VIUvularTrill
ToFall-Tumbare	tum-e-	t-u-m-ay
ToHold	tin-i--	t-e-n-e
ToSqueeze-Serare	se-ɾe--	s-eh-VIUvularTrill-ay
ToSqueeze-Stringere	stringe	s-t-r-e-n-j-ay
ToRub	froj----	f-r-øj_diphthong
ToRub-Frictare	fɾote--	f-rr-oh-t-ay
ToWash	lave--	l-ah-v-ay
ToWipe-Exsucare	--s-u-we--	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	lanc-i:-	l-ah-n-tya-E
ToTie	lɔji:--	l-euh-jg-E
ToSew	kø:--z----	k-o-zz
ToCount	kõ---te--	k-on-t-ay
ToSay	di:--ɣ	d-E-rr
ToSing-AncestralClass	ʃã-te--	ts-NasalA-t-ay
ToPlay-Jiocare	dʒuw-e--	VdPalatoAlveolarSibilant-u-w-ay
ToFlow-Colare	køle--	k-euh-l-ay
ToFreeze	dʒale--	VdPalatoAlveolarSibilant-ah-l-ay

Appendix 4 - Word Lists by Language

ToBurn-Brojan	bʁu:le--	b-rr-U-l-ay
All-Totus	tɔ----	t-euh
Few	põ---	p-on
Other	õ-t---	on-t
Big-Grandem	gʁɑ̃---	j-rr-NasalA
Long-Longum	lõ-----	l-on
Heavy	grav--	j-r-ah-v
Small	pi-ti---	p-e-t-e
Short	ku:ʁ---	k-U-rr
Short-Brevis	bʁɛf--	b-rr-ay-f
Narrow-Strictus	-stʁ-ø:-----	s-t-rr-o
Thin	minu----	m-e-n-u
Thin-Subtilis	su:-ti---	s-U-t-e
Red-Rubeus	rɔ-ʃf---	r-euh-ts
Green	vɛʁ----	v-eh-rr
One	õ---	on
Two-Duos	d-ø:-	d-o
Three	tr-ø:-	t-r-o
Four	kwa-t----	k-w-ah-t
Five	sɛ̃-k--	s-ehn-k
There	--la-	l-ah
Who-Qui	k-i:-	k-E
What	kwe:-	k-w-Eh
When-Quando	kwand	k-w-ah-n-d
How-Quomodo	kɔmɛ--	k-euh-m-ehnn
Not-Nec	nɛ̃-	n-ehn
And-Et	ɛ-	eh

Friulian

Cognate	IPA	Sounds
I	j--o	jg-oh
We	no:--	n-O
YouPlural	vo:--	v-O
YouSingular	tu	t-u
Woman	fɛ-mi-n-ɛ	f-ch-m-e-n-eh
Woman-Mulier	mu--i:r--	m-u-E-r
Woman-Domina	dɔ--ne	d-euh-n-ay
ManHumanBeing	-ɔm----	euh-m
Wife-Mulier	mu-i:r-	m-u-E-r
Husband	mari:t--	m-ah-r-E-t
Husband-Sponsus	-spo:-s--	s-p-O-s
Mother	ma-ri-	m-ah-r-e
Fish-Piskem	pɛs---	p-eh-s
Bird-Avicellum	--u--ʃʃɛ-l--	u-ts-jg-eh-l
Fruit	fru--t--	f-r-u-t
Flower	flo:r--	f-l-O-r
Nose	na:s--	n-A-s
Sun-Soliculus	sore--li-	s-oh-r-ay-l-e
Moon	lune	l-u-n-ay
Star	-st-ɛ-le	s-t-eh-l-ay
Water	a-g-e	ah-j-ay
Rain	plo--je	p-l-oh-jg-ay
Lake	la:t--	l-A-t
Sea	ma:r-	m-A-r
Salt	sa:l--	s-A-l

Appendix 4 - Word Lists by Language

Earth	tjɛ-re	t-jg-eh-r-ay
Fog-Fumata	fumate	f-u-m-ah-t-ay
Sky	ʃ-i:l--	ts-E-l
Wind	'v-int--	v-e-n-t
Fire-Focus	f-u:k--	f-U-k
Year	a-ŋ--	ah-nya
Name-Nomen	nɔŋ--	n-euh-nya
Tongue	'leng-ɛ	l-eh-n-j-eh
ToDrink	bevi--	b-ay-v-e
ToEat-Manducare	maŋj--a:--	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
ToKnow-Sapere	sav-e:--	s-ah-v-ai
ToKnow-Cognoscere	ko-ŋos-i--	k-oh-VdPalatalNasal-oh-s-e
ToThink-Pensare	peŋsa:--	p-ay-nya-s-A
ToFear	temi--	t-ay-m-e
ToFear-Tremere	trim-a:--	t-r-e-m-A
ToSleep	d-urmi:--	d-u-r-m-E
ToLive	vivi--	v-e-v-e
ToDie	muri:--	m-u-r-E
ToKill-Mactare	maʃ-a:--	m-ah-ts-A
ToFight-Battuere	bat-i--	b-ah-t-e
ToHunt-Captiare	ca-ʃ-a:--	tya-ah-ts-A
ToHit	pulsa:--	p-u-l-s-A
ToCut	s-e-a:--	s-ay-A
ToCut-Excurtare	--skurta:--	s-k-u-r-t-A
ToCut-Taliare	ta--ja:--	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	n-ada:--	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	vipi:--	v-e-VdPalatalNasal-E
ToLieAsInABed-lacere	je-si--	jg-ay-s-e
ToSit-Sedentare	se--nta:--	s-ay-n-t-A
ToStand	-sta:--	s-t-A
ToStand-Levare	leva:--	l-ay-v-A
ToStand-Altiare	-altʃ-a:	ah-l-t-shh-A
ToTurnIntransitive	torna:--	t-oh-r-n-A
ToTurnIntransitive-Gyrare	ɖʒira:--	VdPalatoAlveolarSibilant-e-r-A
ToTurnIntransitive-AncestralClass3	ɖʒira:--	VdPalatoAlveolarSibilant-e-r-A
ToFall	ʃʃade--	ts-jg-ah-d-ay
ToHold	tinji--	t-e-n-jg-e
ToSqueeze	e-sprim-i--	ay-s-p-r-e-m-e
ToSqueeze-Stringere	strengi:--	s-t-r-eh-n-j-E
ToRub	fre-a--	f-r-ay-ah
ToWash	lava:--	l-ah-v-A
ToWipe-Exsucare	--s-u-ja:--	s-u-jg-A
ToPull	tira:--	t-e-r-A
ToPull-Pulsare	pulsa:--	p-u-l-s-A

Appendix 4 - Word Lists by Language

ToPull-Trahere	traj---	t-r-aj_diphthong
ToThrow-Lanceare	lanʃa:--	l-ah-n-ts-A
ToTie	le-a:--	l-ay-A
ToSew	ku--zi---	k-u-zz-e
ToCount	kon--ta:--	k-oh-n-t-A
ToSay	di:	d-E
ToSing-AncestralClass	canta:--	tya-ah-n-t-A
ToPlay-Jiocare	dʒuj-a:--	VdPalatoAlveolarSibilant-u-jg-A
ToFlow-Excurrere	--sko-ri:--	s-k-oh-r-E
ToFlow-Currere	ko-ri--	k-oh-r-e
ToFreeze-Glaciare	gla-ʃ-a:--	j-l-ah-ts-A
ToBurn-Brojan	bruza:--	b-r-u-zz-A
All-Totus	du-t--	d-u-t
Many	molc--	m-oh-l-tya
Many-Tantus	tanc--	t-ah-n-tya
Few	po:k-	p-O-k
Other	alt-ri	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
Heavy	grevi-	j-r-eh-v-e
Heavy-Pesant	pezant-	p-ay-zz-ah-n-t
Small-Pitulus	pi-ʃul--	p-e-ts-u-l
Short	kurt--	k-u-r-t
Narrow-Strictus	-str-e--t--	s-t-r-eh-t
Thin	minu:-t--	m-e-n-U-t
Thin-Subtilis	su-ti:l--	s-u-t-E-l
Red-Russus	ro-s--	r-euh-s
Green	ver-t--	v-eh-r-t
One	un--	u-nya
Two-Duos	d-oj-	d-oj_diphthong
Three	'tr-e:-	t-r-ai
Four	kwa-t--ri	k-w-ah-t-r-e
Five	'ʃɪŋk--	ts-e-nya-k
Here	-a-k---i-	ah-k-e
Who-Qui	kwi-	k-w-e
What	ʃ-e-	ts-ay
When-Quando	kwant	k-w-ah-n-t
How-Quomodo	ʃemu:t-	ts-ay-m-U-t
Not	no-	n-oh
And-Et	e-	ay

Romanian

Cognate	IPA	Sounds
I	je-w	jg-ay-w
We	noj-	n-oj_diphthong
YouPlural	voj-	v-oj_diphthong
YouSingular	tu	t-u
Woman	fe-me--je	f-ay-m-ay-jg-ay
Woman-Mulier	mu-jere-	m-u-jg-ay-r-ay
Woman-Domina	doam-nə	d-midback_diphthong_romanian-m-n-aah
ManHumanBeing	-om----	oh-m
Wife-Mulier	mu-jere	m-u-jg-ay-r-ay
Husband	mərit--	m-aah-r-e-t
Husband-Socius	sots---	s-oh-VIAAlveolarSibilantAffricate

Appendix 4 - Word Lists by Language

Fish-Piskem	peſte-	p-ay-shh-t-ay
Bird-Passerem	pa-səre-	p-ah-s-aah-er-ay
Fruit	fru-kt--	f-r-u-k-t
Flower	floare-	f-l-midback_diphthong_romanian-er-ay
Nose	nas--	n-ah-s
Sun	soare-	s-midback_diphthong_romanian-er-ay
Moon	lună	l-u-n-aah
Star	-st-ea---	s-t-midfront_diphthong_romanian
Water	a-p-ə	ah-p-aah
Rain	ploa--je	p-l-midback_diphthong_romanian-jg-ay
Lake	lak--	l-ah-k
Sea	mare	m-ah-r-ay
Salt	sare-	s-ah-r-ay
Earth	ts-a-rə	VlAlveolarSibilantAffricate-ah-r-aah
Fog-Nebula	negură	n-ay-g-u-r-aah
Fog-Caecia	ſeaf-ə	ts-midfront_diphthong_romanian-ts-aah
Sky	ſ-er--	ts-ay-er
Wind	v-int--	v-eee-n-t
Fire-Focus	f-ok--	f-oh-k
Year	an---	ah-n
Name-Nomen	nume-	n-u-m-ay
Tongue	'limb-ə	l-e-m-b-aah
ToDrink	b---ea--	b-midfront_diphthong_romanian
ToEat-Manducare	min--ka--	m-eee-n-k-ah
ToBite-Morsicare	murseka--	m-u-r-s-ay-k-ah
ToSuck	sudze--	s-u-VdPalatoAlveolarSibilant-ay
ToSpit-Exconspuere	-skujpa	s-k-u-jg-p-ah
ToKnow	ſti--	shh-t-e
ToKnow-Cognoscere	ku-noaſte--	k-u-n-midback_diphthong_romanian-shh-t-ay
ToThink	k-udzeta--	k-u-VdPalatoAlveolarSibilant-ay-t-ah
ToThink-Pensare	pə-sa--	p-aah-s-ah
ToFear	teme--	t-ay-m-ay
ToSleep	d-ormi--	d-oh-r-m-e
ToLive	vi-a--	v-e-ah
ToDie	muri--	m-u-r-e
ToKill	n-eka--	n-ay-k-ah
ToKill-Occidere	u-ſide--	u-ts-e-d-ay
ToFight-Battuere	bat-e--	b-ah-t-ay
ToHit	pulsa--	p-u-l-s-ah
ToCut-Excurtare	--skurta--	s-k-u-r-t-ah
ToCut-Taliare	tə--ja--	t-aah-jg-ah
ToSplit	divide--	d-e-v-e-d-ay
ToSplit-Separare	separa--	s-ay-p-ah-r-ah
ToStab	pundze--	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	merdze--	m-ay-r-VdPalatoAlveolarSibilant-ay
ToCome	veni--	v-ay-n-e
ToLieAsInABed	ekstinde--	ay-k-s-t-e-n-d-ay
ToLieAsInABed-lacere	zə-ſea--	zz-aah-ts-midfront_diphthong_romanian
ToSit	ſ-edea--	shh-ay-d-midfront_diphthong_romanian
ToStand	-sta--	s-t-ah
ToStand-Levare	l-ua--	l-u-ah
ToTurnIntransitive	turna--	t-u-r-n-ah
ToTurnIntransitive-Torquere	toarſe--	t-midback_diphthong_romanian-r-ts-ay
ToFall	kədeə--	k-aah-d-midfront_diphthong_romanian

Appendix 4 - Word Lists by Language

ToHold	tsin-e--	VAlveolarSibilantAffricate-e-n-ay
ToSqueeze	-sk-reme--	s-k-r-ay-m-ay
ToSqueeze-Stringere	strindʒe--	s-t-r-eee-n-VdPalatoAlveolarSibilant-ay
ToRub	freka--	f-r-ay-k-ah
ToWash	la----	l-ah
ToWipe-Extergere	--ʃterdʒe--	shh-t-ay-r-VdPalatoAlveolarSibilant-ay
ToWipe-Exsucare	u-s--k-a--	u-s-k-ah
ToPull-Pulsare	pulsa--	p-u-l-s-ah
ToPull-Trahere	tradʒe--	t-r-ah-VdPalatoAlveolarSibilant-ay
ToPush	impindʒe--	eee-m-p-e-n-VdPalatoAlveolarSibilant-ay
ToThrow-Eruncare	a-runʒka	ah-er-u-nya-k-ah
ToTie	lega--	l-ay-j-ah
ToSew	coʒa--s-e--	tya-midback_diphthong_romanian-s-ay
ToCount-Enumerare	-numara--	n-u-m-ah-r-ah
ToSay	ziʃe	zz-e-ts-ay
ToSay-Exponere	--spune	s-p-u-n-ay
ToSing-AncestralClass	kinta--	k-eee-n-t-ah
ToPlay-Jiocare	zu-ka--	gzah-u-k-ah
ToFloat	fluctua--	f-l-u-tya-t-u-ah
ToFlow-Excurrere	--skurdʒe--	s-k-u-er-VdPalatoAlveolarSibilant-ay
ToFlow-Currere	kurdʒe--	k-u-er-VdPalatoAlveolarSibilant-ay
ToFreeze-Inglaciare	ing-ets-a--	eee-n-j-ay-VAlveolarSibilantAffricate-ah
ToBurn-Ardere	arde--	ah-er-d-ay
ToBurn-Incendere	inʃindʒe--	eee-n-ts-e-n-d-gzah-ay
ToBurn-AncestralClass8	ustura--	u-s-t-u-r-ah
All-Totus	to-t--	t-oh-t
Many	mult--	m-u-l-t
Other	alt---	ah-l-t
Big-Majjorem	ma---re	m-ah-er-ay
Long-Longum	lung--	l-u-n-j
Long-Largum	larg--	l-ah-r-j
Wide	lat--	l-ah-t
Heavy	grew--	j-er-ay-w
Small-Pittinus	pu-tsin--	p-u-VAlveolarSibilantAffricate-e-n
Narrow	ingust--	eee-nya-j-u-s-t
Narrow-Strictus	-str-im-t--	s-t-r-eee-m-t
Thin	mərunt--	m-aah-r-u-n-t
Thin-Subtilis	subtsire-	s-u-b-VAlveolarSibilantAffricate-e-r-ay
Red-Russus	ro-ʃu-	er-oh-shh-u
Red-Rubeus	roj-b---	r-oj_diphthong-b
Green	ver-de-	v-ay-er-d-ay
One	unu-	u-n-u
Two-Duos	d-oj-	d-oj_diphthong
Two-Duae	dowə	d-oh-w-aah
Three	tr-ej-	t-r-ej_diphthong
Four	p-a-t--ru	p-ah-t-r-u
Five	ʃinʃ--	ts-e-n-ts
There	--la-	l-ah
Who-Quem	ʃ-inē	ts-e-n-ay
What	ʃ-e-	ts-ay
When-Quando	k-ind	k-eee-n-d
How-Quomodo	kum---	k-u-m
Not	nu-	n-u
And-Et	e-	ay
And-Si	ʃi-	shh-e

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 ^w g ^w				t d			c ɟ	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						ɾ							
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
Near-close		ɪ		ʊ	
Close-mid	e • ø		ə		o
Mid					
Open-mid		œ • ɛ			ɔ
Near-open			ɐ		
Open		a			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	Palato-Alveolar	Velar	Uvular	Pharyngeal Epiglottal	Glottal
Sibilant			ts	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

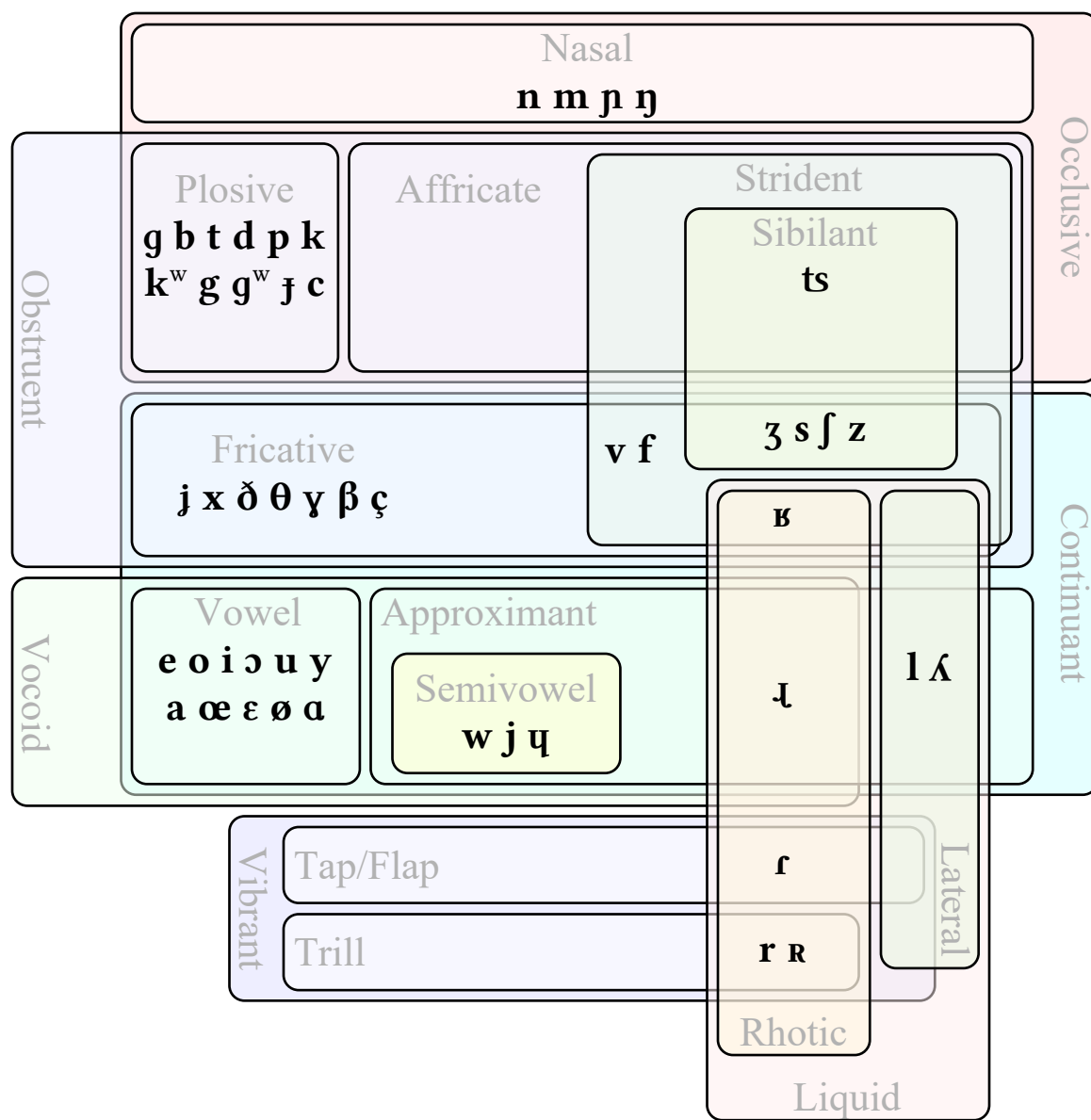
Other Segments

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

Appendix 5 - Segment Groups

p Bilabial Pulmonic Stop Occlusive	z Alveolar Voiced Pulmonic Sibilant Fricative Strident Obstruent Continuant
ð Dental Voiced Pulmonic Fricative Obstruent Continuant	k Velar Pulmonic Stop Occlusive
ts Alveolar Pulmonic Sibilant Affricate Occlusive Strident	a: Open Central Vowel Long Vowel Continuant
ẽj Mid Front Nasal Vowel Diphthong	ʀ Uvular Pulmonic Trill Rhotic Vibrant Liquid
θ Dental Pulmonic Fricative Obstruent Continuant	ej Mid Front Vowel Diphthong
ɐj Mid Front Vowel Diphthong	õ Close-mid Back Rounded Nasal Vowel
ɛ: Open-mid Near-Front Vowel Long Vowel Continuant	ɥ Labial-Palatal Vowel Semivowel Voiced Approximant Continuant
ø: Open Front Rounded Vowel Long Vowel	ɭ Alveolar Voiced Velarized Pulmonic Lateral Approximant
ɛj Mid Front Vowel Diphthong	ø Close-mid Front Rounded Vowel Vowel Continuant
ɐ Mid Front Vowel Diphthong	k Labial-Velar Pulmonic Stop Occlusive
ɣ Velar Voiced Pulmonic Fricative Obstruent Continuant	aj Mid Front Vowel Diphthong
g Velar Voiced Pulmonic Stop Occlusive	ẽ Close Back Nasal Vowel
ŋ Velar Voiced Pulmonic Nasal Occlusive	g Labial-Velar Voiced Pulmonic Stop Occlusive
ẽ Mid Front Nasal Vowel Diphthong	ɑ Open Back Vowel Vowel Continuant
β Bilabial Voiced Pulmonic Fricative Obstruent Continuant	ʃ Palatal Voiced Pulmonic Stop Occlusive
c Palatal Pulmonic Stop Occlusive	ẽ Open-mid Near-Front Nasal Vowel
ɔ: Open-mid Back Rounded Vowel Long Vowel Continuant	ũ Open Back Nasal Vowel
ɭ Retroflex Vowel Voiced Pulmonic Approximant Rhotic Liquid	ç Palatal Pulmonic Fricative Obstruent Continuant
ɑ: Open Back Long Vowel	ʝ Palatal Nasal Approximant
œ Open-mid Near-Front Rounded Nasal Vowel Diphthong	a Mid Front Vowel Diphthong
ʊ Near-close Near-Back Rounded Vowel	ẽ Mid Front Nasal Vowel Diphthong

Appendix 6 - Euler Feature Diagram



Appendix 7 - International Phonetic Alphabet

IPA Segments

ẽ	θ	β	tʃ
1EBD Close Back Nasal Vowel	03B8 Dental Pulmonic Fricative Obstruent Continuant	03B2 Bilabial Voiced Pulmonic Fricative Obstruent Continuant	02A7 Palato-Alveolar Pulmonic Sibilant Affricate
ts	dʒ	j	ʒ
02A6 Alveolar Pulmonic Sibilant Affricate Occlusive Strident	02A4 Palato-Alveolar Voiced Sibilant Affricate	029D Palatal Voiced Pulmonic Fricative Obstruent Continuant	0292 Post-Alveolar Voiced Pulmonic Sibilant Fricative Strident Obstruent Continuant
ʎ	ʊ	ʃ	ʁ
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	0281 Uvular Voiced Pulmonic Fricative Rhotic Strident Obstruent Continuant Liquid
ʀ	ɾ	ɻ	ɲ
0280 Uvular Pulmonic Trill Rhotic Vibrant Liquid	027E Alveolar Voiced Pulmonic Tap/Flap Rhotic Vibrant Liquid	027B Retroflex Vocoid Voiced Pulmonic Approximant Rhotic Liquid	0272 Palatal Voiced Pulmonic Nasal Occlusive
ɭ	ɪ	ɨ	ɥ
026B Alveolar Voiced Velarized Pulmonic Lateral Approximant	026A Near-close Near-Front Vowel	0268 Close Central Vowel	0265 Labial-Palatal Vocoid Semivowel Voiced Approximant Continuant

Appendix 7 - International Phonetic Alphabet

<p style="text-align: center; font-size: 2em;">ɣ</p> <p style="text-align: center;">0263</p> <p style="text-align: center;">Velar Voiced Pulmonic Fricative Obstruent Continuant</p>	<p style="text-align: center; font-size: 2em;">g</p> <p style="text-align: center;">0261</p> <p style="text-align: center;">Velar Voiced Pulmonic Stop Occlusive</p>	<p style="text-align: center; font-size: 2em;">ʃ</p> <p style="text-align: center;">025F</p> <p style="text-align: center;">Palatal Voiced Pulmonic Stop Occlusive</p>	<p style="text-align: center; font-size: 2em;">ɛ</p> <p style="text-align: center;">025B</p> <p style="text-align: center;">Open-mid Near-Front Vocoid Vowel Continuant</p>
<p style="text-align: center; font-size: 2em;">ə</p> <p style="text-align: center;">0259</p> <p style="text-align: center;">Close-mid Central Vowel</p>	<p style="text-align: center; font-size: 2em;">ɔ</p> <p style="text-align: center;">0254</p> <p style="text-align: center;">Open-mid Back Rounded Vocoid Vowel Continuant</p>	<p style="text-align: center; font-size: 2em;">ɑ</p> <p style="text-align: center;">0251</p> <p style="text-align: center;">Open Back Vocoid Vowel Continuant</p>	<p style="text-align: center; font-size: 2em;">ɐ</p> <p style="text-align: center;">0250</p> <p style="text-align: center;">Near-open Central Rounded Vowel</p>
<p style="text-align: center; font-size: 2em;">ũ</p> <p style="text-align: center;">0169</p> <p style="text-align: center;">Open Back Nasal Vowel</p>	<p style="text-align: center; font-size: 2em;">œ</p> <p style="text-align: center;">0153</p> <p style="text-align: center;">Open-mid Near-Front Rounded Vocoid Vowel Continuant</p>	<p style="text-align: center; font-size: 2em;">ŋ</p> <p style="text-align: center;">014B</p> <p style="text-align: center;">Velar Voiced Pulmonic Nasal Occlusive</p>	<p style="text-align: center; font-size: 2em;">ĩ</p> <p style="text-align: center;">0129</p> <p style="text-align: center;">Close Front Nasal Vowel</p>
<p style="text-align: center; font-size: 2em;">ø</p> <p style="text-align: center;">00F8</p> <p style="text-align: center;">Close-mid Front Rounded Vocoid Vowel Continuant</p>	<p style="text-align: center; font-size: 2em;">õ</p> <p style="text-align: center;">00F5</p> <p style="text-align: center;">Close-mid Back Rounded Nasal Vowel</p>	<p style="text-align: center; font-size: 2em;">ð</p> <p style="text-align: center;">00F0</p> <p style="text-align: center;">Dental Voiced Pulmonic Fricative Obstruent Continuant</p>	<p style="text-align: center; font-size: 2em;">ç</p> <p style="text-align: center;">00E7</p> <p style="text-align: center;">Palatal Pulmonic Fricative Obstruent Continuant</p>
<p style="text-align: center; font-size: 2em;">ʒ</p> <p style="text-align: center;">007A</p> <p style="text-align: center;">Alveolar Voiced Pulmonic Sibilant Fricative Strident Obstruent Continuant</p>	<p style="text-align: center; font-size: 2em;">y</p> <p style="text-align: center;">0079</p> <p style="text-align: center;">Close Front Rounded Vocoid Vowel Continuant</p>	<p style="text-align: center; font-size: 2em;">x</p> <p style="text-align: center;">0078</p> <p style="text-align: center;">Velar Pulmonic Fricative Obstruent Continuant</p>	<p style="text-align: center; font-size: 2em;">w</p> <p style="text-align: center;">0077</p> <p style="text-align: center;">Labial-Velar Vocoid Semivowel Voiced Approximant Continuant</p>

Appendix 7 - International Phonetic Alphabet

v	u	t	s
0076 Labio-Dental Voiced Pulmonic Fricative Strident Obstruent Continuant	0075 Close Back Rounded Vocoid Vowel Continuant	0074 Alveolar Pulmonic Stop Occlusive	0073 Alveolar Pulmonic Sibilant Fricative Strident Obstruent Continuant
r	p	o	n
0072 Alveolar Voiced Pulmonic Trill Rhotic Vibrant Liquid	0070 Bilabial Pulmonic Stop Occlusive	006F Close-mid Back Rounded Vocoid Vowel Continuant	006E Alveolar Voiced Pulmonic Nasal Occlusive
m	l	k	j
006D Bilabial Voiced Pulmonic Nasal Occlusive	006C Alveolar Vocoid Voiced Pulmonic Lateral Approximant Rhotic Liquid	006B Velar Pulmonic Stop Occlusive	006A Palatal Vocoid Semivowel Voiced Pulmonic Approximant Continuant
i	h	g	f
0069 Close Front Vocoid Vowel Continuant	0068 Glottal Pulmonic Fricative	0067 Velar Voiced Pulmonic Stop Occlusive	0066 Labio-Dental Pulmonic Fricative Strident Obstruent Continuant
e	d	c	b
0065 Close-mid Front Vocoid Vowel Continuant	0064 Alveolar Voiced Pulmonic Stop Occlusive	0063 Palatal Pulmonic Stop Occlusive	0062 Bilabial Voiced Pulmonic Stop Occlusive

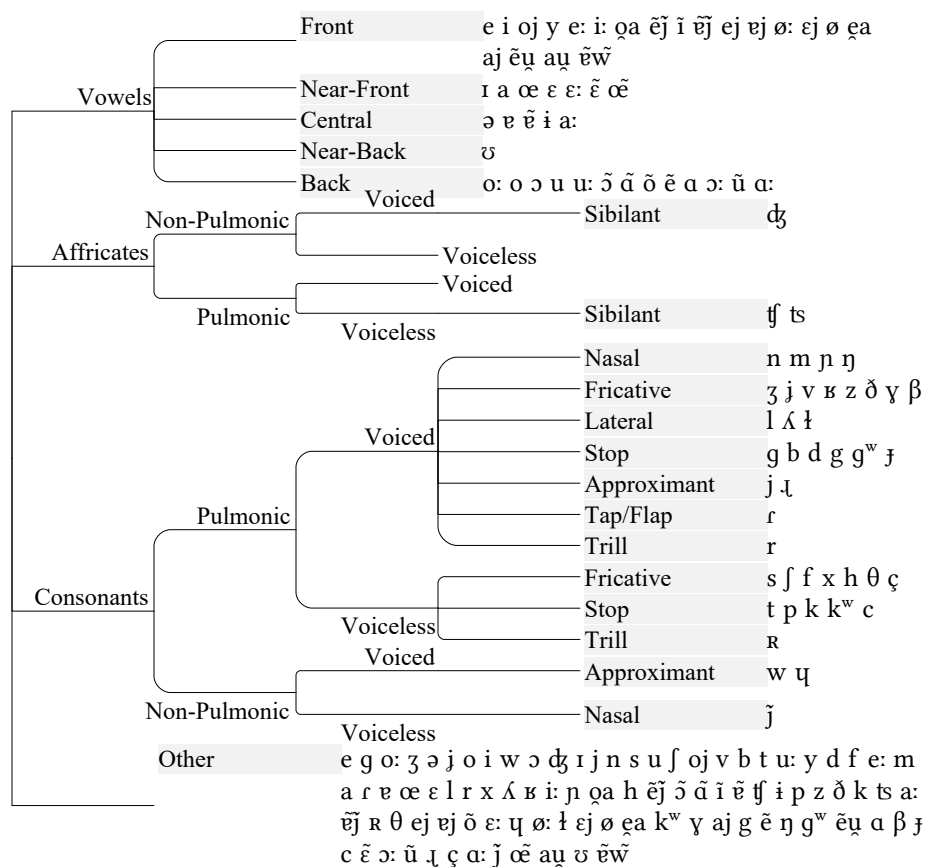
Appendix 7 - International Phonetic Alphabet

a	g ^w	ẽ	ɛː
0061 Open Near-Front Vocoid Vowel Continuant	0261, 02B7 Labial-Velar Voiced Pulmonic Stop Occlusive	025B, 0303 Open-mid Near-Front Nasal Vowel	025B, 02D0 Open-mid Near-Front Vocoid Long Vowel Continuant
ɛj	õ	ɔː	ã
025B, 006A Mid Front Vowel Diphthong	0254, 0303 Open-mid Back Rounded Nasal Vowel	0254, 02D0 Open-mid Back Rounded Vocoid Long Vowel Continuant	0251, 0303 Near-close Back Nasal Vowel
ɑː	ẽ	aj	œẽ
0251, 02D0 Open Back Long Vowel	0250, 0303 Near-open Central Rounded Nasal Vowel	0250, 006A Mid Front Vowel Diphthong	0153, 0303 Open-mid Near-Front Rounded Nasal Vowel Diphthong
øː	uː	oː	oj
00F8, 02D0 Open Front Rounded Vocoid Long Vowel	0075, 02D0 Close Back Rounded Long Vowel	006F, 02D0 Mid Back Rounded Vocoid Long Vowel Continuant	006F, 006A Mid Front Vowel Diphthong
k ^w	ĩ	iː	eː
006B, 02B7 Labial-Velar Pulmonic Stop Occlusive	006A, 0303 Palatal Nasal Approximant	0069, 02D0 Close Front Vocoid Long Vowel Continuant	0065, 02D0 Mid Front Vocoid Long Vowel Continuant

Appendix 7 - International Phonetic Alphabet

eɨ	aː	aj	ẽu̯
0065, 006A Mid Front Vowel Diphthong	0061, 02D0 Open Central Vowoid Long Vowel Continuant	0061, 006A Mid Front Vowel Diphthong	1EBD, 0075, 032F Mid Front Nasal Vowel Diphthong
ẽj̃	oɑ	ɛɑ	au̯
1EBD, 006A, 0303 Mid Front Nasal Vowel Diphthong	006F, 032F, 0061 Mid Front Vowel Diphthong	0065, 032F, 0061 Mid Front Vowel Diphthong	0061, 0075, 032F Mid Front Vowel Diphthong
ẽw̃	ẽj̃		
0250, 0303, 0077, 0303 Mid Front Nasal Vowel Diphthong	0250, 0303, 006A, 0303 Mid Front Nasal Vowel Diphthong		

Appendix 8 - Feature Tree

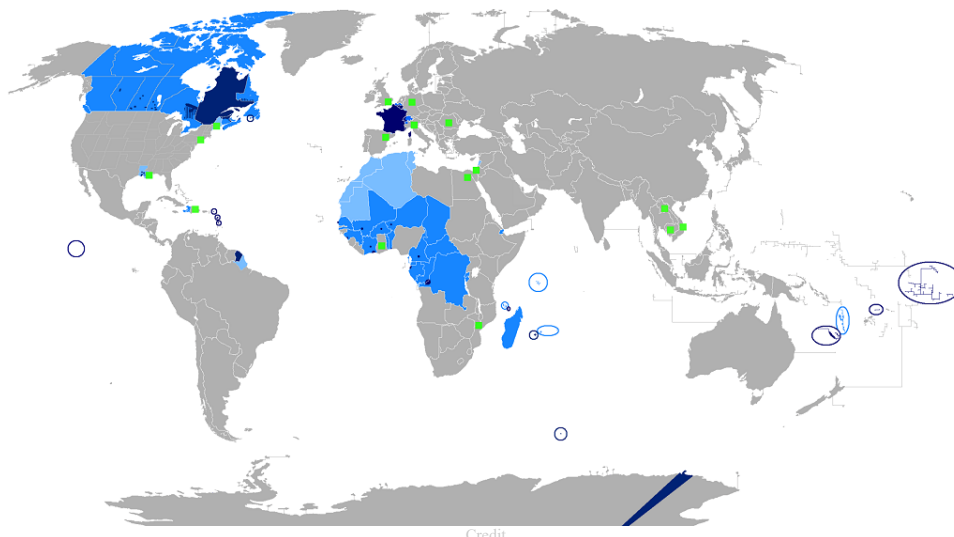


Appendix 9 - Diacritics

Diacritics

	Undefined escape character	~	Nasalized	..	Centralized
+	Advanced	-	Retracted	˘	RisingTone
◦	Voiceless		Implosive	˙	Syllabic
ˈ	Ejective	ʕ	Pharyngealized	ˆ	Falling tone
˘	Non-syllabic	˞	No audible release	˚	Rhotic hook
ˠ	Advanced tongue root	ˡ	Apical	˝	Extra low tone
ˡ	Low rising tone	ˢ	Less rounded	˦	Dental
˜	Velarized or Pharyngealized	ˣ ↘	Global fall	˧	Velarized
˥	High tone	˨	High rising tone	ᵿ	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		

French

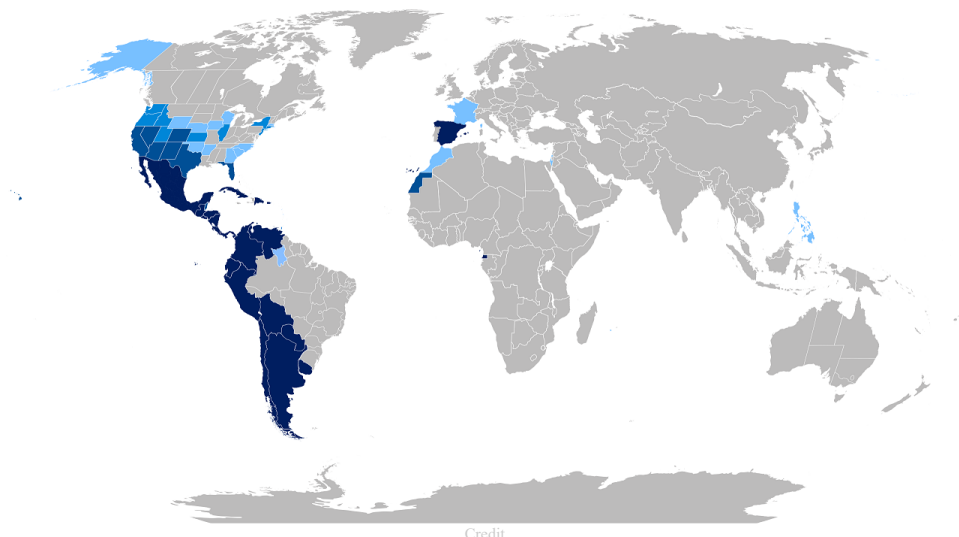


A Romance language of the Indo-European family. It descended from the Vulgar Latin of the Roman Empire, as did all Romance languages. French evolved from Gallo-Romance, the Latin spoken in Gaul, and more specifically in Northern Gaul. Its closest relatives are the other langues d'oïl—languages historically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

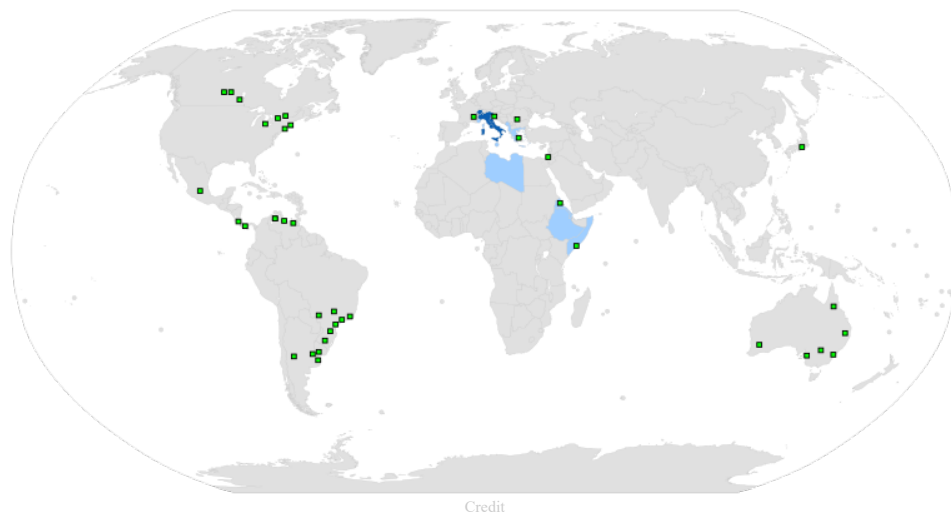
French is an official language in 29 countries across multiple continents, most of which are members of the Organisation internationale de la Francophonie (OIF), the community of 84 countries which share the official use or teaching of French. French is also one of six official languages used in the 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

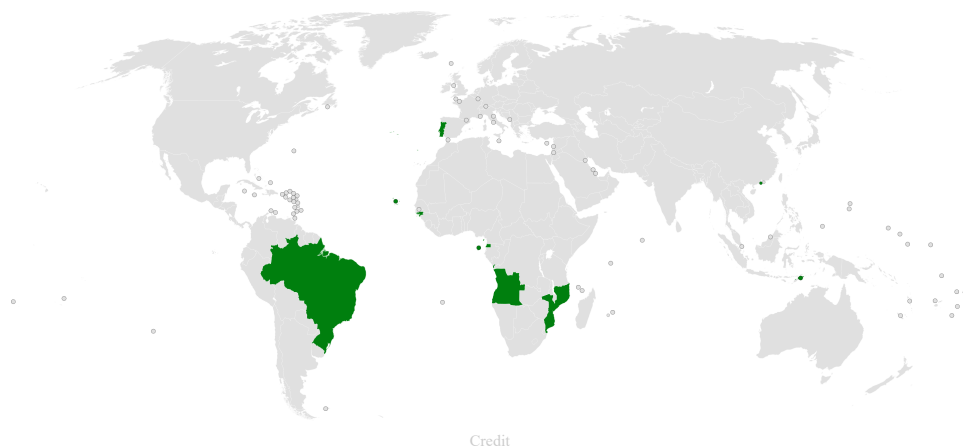
languages covered by the European Charter for Regional or Minority languages in Bosnia and Herzegovina and in Romania, although Italian is neither a co-official nor a protected language in these countries. Many speakers of Italian are native bilinguals of both Italian (either in its standard form or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

Brazilian Portuguese



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



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

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



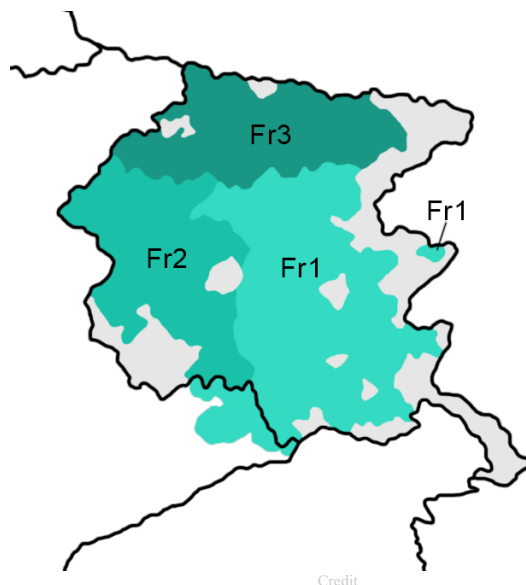
Credit

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".