

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	1.0
o	0.9
x	0.8
l	0.8
s	0.7
i	0.7
u	0.7
t	0.6
y	0.6
u	0.6
c	0.6
k	0.5
j	0.5
o	0.5
e	0.5
x	0.5
l	0.5
β	0.4
z	0.4
a	0.3
g	0.3
y	0.3
d	0.3
κ	0.3
h	0.3
u	0.2
oe	0.2
a	0.2
u	0.2
u	0.2
d	0.2
j	0.2
ae	0.2
g	0.2
au	0.2
ae	0.2
j	0.2
oa	0.2
ej	0.2
e	0.2
ej	0.2
dy	0.2
ej	0.2
u	0.2
aj	0.2
ej	0.2
oa	0.2
tj	0.2
l	0.2
ts	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, veste, embra, femmina, femēv, femjə, fembra, femeje, mulierem, muxer, μοῦλε, μὺλεκ, μὺλεr, μὺλε, mujere, dōne, hominem, ombre, infantem, infante, fante, nenēj, nen, epuz, esposa, mulier, muxer, μοῦλε, μὺλεκ, μὺλεr, μὺλε, mujere, epu, esposo, matrem, mek, madre, mer, patre, pev, padre, padre, nema:l, nōmaje, piskem, peθ, peffe, pef, pefte, awem, abe, awikellum, useA, passerem, passero, pasare, peduklus, pedoli, padukje, florem, fjo:re, floare, ne, nariffe, so:lem, sole, sware, soreli, lune, etwal, estreja, stella, istrelv, iftrelv, stele, age, ploje, ploaje, mare, mek, sa:lem, sale, se, sare, terra, tek, tjera, tekv, tjere, ka:li:ginem, kaliđgine, nebula, njebla, nebbja, newlā, negurā, tene:braj, tē:nebre, tene:bra:s, tenēbv, tinjeblas, tē:nebre, tēnebrās, fyne, fumate, θjelo, ffer, wentum, bjento, ben, fwego, no:men, no:me, nume, no:minem, nombre, lengwa, bibere, beber, bere, bebev, biβer, bevi, komedere, komer, kome, kumer, mandukare, māze, manđare, morde:re, morđer, mōrdere, moxđev, murđer, morsika:re, morsikare, murseka, su:gere, syse, suđe, konspuere, kōspyē, eskupir, sputere, esputar, sputare, skire, sapere, saber, sabev, sēber, kogno:skere, konoθer, konofere, konesev, kupiser, kunqafte, ko:gita:re, kuide, kođitare, kuđeta, pe:nsa:re, pāse, pensar, pensare, pēse, peṇsa: timere, temer, temere, temev, timer, temā, temi, teme, tremere, tremer, tremare, tremev, trimer, dormi:re, dormire, wi:were, vivere, vivev, viver, morire, moxev, muxer, neka:re, nwaje, neka, anegar, annegare, tye, tuwe, makta:re, mate, okki:dere, uttfidere, utfide, pugna:re, puppare, battuere, battere, batev, bēter, bate, kaptia:re, fase, katffare, pulsa:re, puse, pulsare, seka:re, sje, segar, segare, segar, sear, kurta:re, ekskurta:re, ekuvte, skortare, ta:lia:re, taje, ta:lla:re, di:widere, dividere, divide, skindere, sēde, findere, findere, ender, fendere, fēdev, fēder, parti:re, partire, se:para:re, sōvve, separar, separare, separav, separa:, separa, pungere, punđere, punđe, jugula:re, zygyle, jugula:re, ra:dere, raer, radere, kvēv, vver, rade, vaze, rasare, fodere, kaware, kavare, qv:le, ekskaware, eskabar, skavare, natare, nwtare, naviga:re, naze, nabegar, navigare, wolare, vole, volare, vōle, zvolare, fəmine, kamminare, fimine, mavse, mergere, merđere, merđe, ambita:re, andare, wenire, benir, venire, veni, ekstendere, etādv, ekstender, estendere, istēdev, istēder, əstendrā, ekstinde, jake:re, zeziv, jaθer, đzafere, zvezv, zvezr, đgere, jesi, sedere, ser, sedere, sev, fedza, sedenta:re, sentar, senta: stare, estar, stare, levare, love, jebar, levare, levav, leva: altiare, ose, alsare, torna:re, tūvne, tornare, tur:ne, gyra:re, zive, đzirare, vize, virare, torkw:re, torθer, tōrfere, turser, tqartfe, kadere, kaer, kadere, fjade, tōbe, tume, tene:re, tener, tenere, tek, ter, tsine, segurar, eksprimere, epvēdv, ekspremir, spremere, ifprāmek, ifprāmer, əsprema, esprimi, skreme, serrere, serar, seka, serare, seve, θerar, serrare, sere, appektora:re, apretar, stringere, etvēdv, estepir, strinđere, stringe, strinđe, frika:re, fvēje, fregar, fregare, frea, freka, frikta:re, fvote, frettare, lawa:re, lave, lavare, tergere, terđere, ekstergere, estarsir, fterđe, eksu:ka:re, esqije, enxugar, affugare, suwe, limpida:re, tira:re, tize, tirare, tire, puse, trahere, trarre, traze, trēzer, trađe, impingere, impinđere, impinđe, jakta:re, zote, efjar, đettare, đete, lankeare, lāse, lanffare, erunka:re, arrontfare, ligare, lie, legar, legare, lea, lega, apta:re, ko:nsuere, koser, kutfire, kuzer, qvase, komputare, kōte, kontare, e:numera:re, enumere, enumerar, enumerare, enumera, dikere, deθir, dire, dizer, zife, ekspo:nere, sporre, spune, kanta:re, fāte, kantare, fāte, ludere, joka:re, zve, đvokare, đvuwe, fluktuare, flyktqe, fluttuare, fluita:re, fluitare, fluere, flye, fluire, kola:re, kule, kolare, kōle, ekskurrere, eskurir, skorrere, ifkovēv, ifkurer, skurđe, kurrere, korer, korrere, kovēv, kuvēv, kurđe, gelare, zole, elar, đelare, đale, glakia:re, glase, gjatffjare, inglakia:re, inge tsa, bvyale, bru:fare, bvū:le, kremare, kvame, kema:re, kremare, kvjmare, kejmave, flamma:re, flābe, flamear, fjammar, arde:re, arder, ardere, avđev, vder, arde, flagra:re, flagve, flagrare, inkendere, ēsāđje, enθender, inffendjare, isenđjar, ənsendrā, inffindze, ustula:re, ustolare, alter, grandem, grande, grande, majjorem, mare, le, grabe, grēve, grew, grew, lardo, pesađo, pesante, pezadu, pezant, pekeno, pekenu, pikenu, brewis, brebe, breve, brew, bvēf, etkwa, estreffo, stretto, menuo, delyađo, delikato, dewgadū, subti:lem, sottile, subtsire, ruber, vermikulul, bermexo, vermīλλo, vevmeļu, rubeus, rubeo, ruđe, viridem, vev, berde, verde, verdi, verde, due, tres, tre, tref, kw:inkw, ffinjkw, ekkumhi:k, kwem, kjen, fine, ke, fe, kome, femut, nek, ne, et, e
1	g	ego:, agwē, lago, lagu, ka:li:ginem, negurā, fwego, fogu, lāg, lengwa, lingwa, ligwē, musəga, musəgar, su:gere, sugav, sugar, kogno:skere, ko:gita:re, naga, anegar, annegare, segav, pungere, jugula:re, zygyle, nabegar, navigare, nābaga, naviga, segurar, sigurar, fregar, fraga, iffrigar, tergere, ekstergere, enxugar, affugare, ēfugar, əfuga, ligare, legar, legare, zogav, zuga, flugtwar, gelare, glakia:re, glase, gjatffjare, glāsa, inglakia:re, flagra:re, flagve, flagrar, flagrare, flagrar, awgū, ałgū, əlgu, gvā, grande, grande, grēđgi, grēdi, longum, lungu, lōgu, largo, lāvgu, largu, grawis, gvav, grabe, greve, gravi, gravi, grew, anqustus, anqosto, anqusto, dewgadū

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:gita:re, ko:nsuere, ekspo:nere, ko:lare, to:tus, po:k, duo:s, k ^w ando:, k ^w o:modo, no:n
3	3	zə, ʒə, pluʒə, kalizɛj, kəlizɛj, mǝʒe, mǝʒaʋ, mǝʒar, mǝʒa, kuʒitaʋ, kuʒitar, pǝʒiʋ, pǝʒir, ʒyɡyle, naʒe, zeziʋ, ʒeʒeʋ, ʒeʒer, ʒawrə, ʒiʒe, ʒiraʁ, ʒira, əfʁizir, əfʁizir, əstərʒi, ʒəte, ʒejtar, ʒwe, ʒogaʋ, ʒuʁar, ʒuga, ʒuka, ʒəle, ʒilar, ʒəla, ɪnfɪndʒe, ləʒʒ, du:ʒe:, ʁuʒ
4	ə	ʒə, dənə, dɔʁamɲə, əmə, əspɔʒə, mərit, əspɔs, marə, parə, tatə, nəmajə, pasərə, pədukje, bokə, bukə, gurə, ʁunə, lunə, əstəl, ajyʋə, apə, pluʒə, tərə, tsarə, newlə, negurə, tənəbrəs, ʃɛaʃə, limbə, bəwɾə, mǝʒa, musəʒar, musəʒa, əskupi, səʒe, kunɛʃə, pənsa, pəsa, temə, biwɾə, nəʒa, məta, batrə, kəsə, səʁa, tələ, təʒa, fɛndrə, pər̥ti, səvɛ, səpərə, rawɾə, razə, rəska, kəbə, nədə, nəbəʒa, fəmine, kəmina, vənɪʋ, bəni, əstendrə, ʒawɾə, ʒəʃɛa, əsta, ləve, ʁəbə, əlsa, tɔrsə, kawɾə, kədə, tənɪʋ, təni, ɪʃprəmɛʋ, ɪʃprəmer, əspremə, sərar, səra, əfʁizir, əfʁizir, əstreɲə, frəga, frəsə, əstərʒi, əʃuga, trɛwɾə, əmpɛɲə, ʒəte, ʁansa, kənta, əskorə, korə, ʒəle, ʒəla, gləsə, krəma, ənsendrə, əlɡu, altrə, amplə, pəʒə, pəʒat, pəti, pətit, əstɾet, mənʏ, mənʏt, mərʏnt, dəlikat, bərmɛʁ, dowə, kwatrə, ələ
5	j	jo, estreja, jubja, jaθer, jebar, aja
6	o	jo, io, jo, nos, no, bos, vof, vos, vose, veste, moʁʁe, domina, doɲa, done, hominem, ombre, omɛj, om, homo:, wəmo, nɪno, nɪno, sponsa, esposa, ispoza, ɪspɔʒə, moʁʁe, mariðo, marito, sponsus, esposo, spɔʒo, ispozu, ɪspɔzu, sokius, səʃo, sɔts, omaj, wazo, utʃello, paxaro, passero, pɔxo, pidəkkjo, piəʁu, poʁ, pedoli, fruto, frutto, flor, floʁ, naso, na:sə, boka, bokka, bokə, bokə, sol, sole, solikulus, soreli, o, pɔddʒa, ploje, lago, lago, θjelo, ʃelo, bjento, vento, fokum, fwego, fwəko, fogu, foyu, fok, apo, anno, nomi, nomi, nombre, komedere, komer, kome, morder:re, moɔdɛʋ, moɔðer, moɔdɛʋ, morsikare, moskar, morsikare, konspuere, kogno:skere, konəθer, konoffere, kənesɛʋ, kənosɪ, koʒitare, dormi:re, dormir, dormire, dɔʁmiʋ, dormi, morir, morire, moʁɛʋ, okki:dere, kortar, koʁtaʋ, kortare, kosaʃ, fodere, nwotare, wolare, vole, bolar, volare, voaʁ, zvolare, zvola:, ose, tornare, tornar, tornare, toɲaʋ, torna:, tork ^w ere, toθer, apɛktora:re, frəte, froʁar, avɔnʃare, koser, komputa:re, kontar, kontare, konta:, sporre, jəka:re, ɟokare, ʒogaʋ, kolaʁ, kolare, koaʋ, skorrere, ɪʃkoʁɛʋ, əskorə, skori:, koreʁ, korrere, koʁɛʋ, korə, kori, ustolare, omne:s, oɲni, todo, tutto, todʏ, toðu, tot, muʃo, molto, mol, molc, tanto, okœ, alguno, alkuno, poko, pəko, powku, oʁə, otro, altro, owtru, maɲo, maɲno, majjorem, longum, longo, lungo, ʁoɲ, laryo, largo, lato, anʃo, ampjo, lerdo, lordo, pesaðo, pekeno, pitʃino, pikkolo, korto, korto, angosto, angusto, estɾɛʃo, stretto, menudo, minuto, delyaðo, delikato, sottile, rubro, roxo, rosso, ʁɔʃʏ, ʁɔʃu, ros, ʁɔʃu, bermexo, vermiʁʁo, rubjo, robbjo, 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, fəmine, mulierem, domina, hominem, infantem, infante, ɪfɛʃi, nɪno, nino, ispoza, mulier, məxi, mariðo, marito, maridu, məriðu, marit, mərit, ispozu, sokius, mari, pari, animalia, aliməna, be:stia, biʃʃa, biʃə, bis, piskem, peʃi, avi, awikellum, pidəkkjo, piəʁu, pedoli, fɛʁi, nariθ, nariʃe, naris, nəriʃ, solikulus, soreli, istɾeʁe, pluwia, plɛi, ka:li:ginem, kalina, kaliɟine, kalizɛj, kəlizɛj, tinjeblas, kajkia, vint, nomi, no:minem, ling ^w a, lingwa, limbə, bibere, bevi, mwardi, morsikare, morsikare, kuspɪʁ, kuspɪr, əskupi, ʃti, kinɔh, əskupi, ko:gita:re, kɔide, kwidar, koʒitare, kuʒitaʋ, kuʒitar, timere, temi, trima:, dɔʁmiʁ, dormi, dormire, dɔʁmiʁ, durmir, durmi, dwaɁmi, dormi, vivɛ, bibir, vivere, viveʋ, viver, biwɾə, vivi, via, muʁiʋ, morir, morire, muri, məri, muri, tu:ta:ri, əksɪʋ, utʃidere, uksi, utʃide, batir, bati, kaptia:re, ta:lia:re, di:widere, dibidir, dividere, ɟi:viɟiʋ, di:viðir, dibidi, dividi, divide, skindere, ʃindere, findere, pətiʋ, partir, partire, pəʃʃiʋ, pətiʁ, pər̥ti, pə:ti, pǝʒiʋ, pǝʒir, pupi, fwɪʋ, ɪʃkəʋaʋ, ɪʃkəʋar, naviga:re, navigare, naviga:, naviga, fəmine, kaminar, kamminare, kəmiɲaʋ, kəmiɲar, kəmina, ʃimine, camina:, ambita:re, vənɪʋ, benir, venire, viʋ, vir, bəni, vini, viɲi:, veni, istėdɛʋ, ɪʃtėder, ekstinde, zeziʋ, jesi, altiare, ʒiʒe, xiraʁ, ɟira:re, ʒiraʁ, ʒira, ɟira:, viʒe, biraʁ, virare, virar, bira, keir, tənɪʋ, təni, tini, tinji, tɛine, eksprimere, ekspremir, ɪʃprəmɛʋ, ɪʃprəmer, esprimi, stringere, estɾepir, stringere, əfʁizir, əfʁizir, stringe, frika:re, friktare, frisar, estarsir, əstərʒi, esɟije, limpidare, limpjar, tira:re, tiʁe, tirar, tirare, ʃira, tira, tire, tira:, impingere, impindere, impindɛ, xita, ligare, lie, ʁiya, kuʃire, kuzi, kuzi, diʋ, deθir, dire, dizer, di, ziʃe, ludir, fluitare, fluitare, fluir, fluire, flwiʋ, flwir, flui, eskurir, ɪʃkoʁɛʋ, ɪʃkureʁ, kuʁiʋ, kori, glakia:re, inglakia:re, inkendere, ɪnfɛndʒare, ɪnfɪndʒe, oɲni, altri, alius, grɛɟi, grawis, gravi, grɛvi, pittitus, pəti, pətit, piti, pittinus, pitʃino, putsin, pitulus, pikkolo, pitʃul, brewis, brevi, striktus, istrejtʏ, minutus, minuto, miudu, miuðu, minu, minu:t, de:lika:tus, delikato, dəlikat, sutil, sottile, suʃiʋ, suptil, sutɪ, subɛire, vermikulus, vermiʁʁo, wiridem, kwatri, θinko, ʃɪnkwe, sink, ʃɪnk, ʃɪntʃ, isi, aki, kwi, əki, illa:k, ibi:, vi, ai, əi, 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, pluwiɔ, saw, nɛvwɛ, newlɔ, sɛw, wentum, fwego, fwɔko, lɛngwa, lingwa, ligwɛ, bwɔk, bɛwrɔ, mwardi, savwɔk, kwidar, dwaxmi, 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, sutfiw, wiridem, dowɔ, tɔwɔ, k ^w attwor, kwatro, kwattro, kwatru, kwatrɔ, kwat, kwatri, ɸɪɲkwe, 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, sɔɸo, pidɔkkjo, flɔ, bɔk, bɔcɛ, sɔw, sɔɪ, sɔɪ, sɔɪ, sɔɪ, njɔly, fwɔko, fɔk, nɔm, nɔɲ, mɔrdere, kɔnɛtɔ, kinɔh, dɔɔmɔk, mɔri, ɔksɔk, vɔle, tɔɔdɔ, tɔɸɸere, tɔrsɔ, lɔji:, kɔle, tɔ, pɔko, pɔk, rɔs, rɔbbjo, rɔɸ, kɔmɔ, kɔmɛ
10	ɖ	ɖɪ, pjɔdɖa, kalidɖine, mandɖare, sudɖe, kɔɖitare, kuɖeta, ɖividɖɔ, punɖere, punɖe, nɛɖi:, mɛrɖere, mɛrɖe, ɖaɸɸere, ɖere, ɖirare, ɖira:, strindɖere, strindɖe, tɛrɖere, ɸterɖe, traɖe, impindɖere, impindɖe, ɖettare, ɖete, ɖokare, ɖuwe, ɖuja:, skurɖe, kurɖe, ɖelare, ɖale, isendɖar, grɛɖi, ruɖe
11	ɪ	ɖɪ, nɑ:rɪs, isendɖar
12	j	jo, jew, nɔjs, vɔjs, femjɛ, femeje, mujere, mujere, omaj, nɔmaje, uɸjel, pjoxo, pidɔkkjo, pju, pɔdukje, frujt, fjo:re, jubja, pjɔdɖa, ploje, plɔaje, tjera, tjere, njɔly, njebla, nebbja, tinjeblas, sjel, ɸjelo, bjento, skujpa, kujda, sje, taje, tɛji:, tajar, tɔja, jugularɛ, jugularɛ, jakɛ:re, jesi, ɸjade, tinji, esɸije, suja:, limpjar, jaktare, lɔji:, jakare, ɖuja:, gjatɸjare, fjammarɛ, ɛsɔɖje, inɸendjare, isɛɖjar, majjorem, ampjo, rubjo, rɔbbjo, kjen
13	n	no:s, nu, nos, no:i, nɔjs, nɔf, no, no:, noj, fe:mina, femmina, femine, domina, dɔnna, donɔ, dɔnɔ, dɔne, dɔamɔ, hominem, infantem, infante, fante, nipo, nino, nenɛj, nen, sponsa, sponsus, animalia, nema:l, nɔmaje, nɑ:sus, ne, naso, nɑ:so, nas, nɑ:s, nas, nariθ, nariɸe, naris, nɛrɪɸ, nɑ:rɪs, lu:na, lyn, luna, ɔunɔ, lɔn, lune, lunɔ, ka:lɪ:ginem, kalina, kalidɖine, nebula, njɔly, njebla, nebbja, nɛvwɛ, newlɔ, negurɔ, tɛnɛbraj, tɛnɛbre, tɛnɛbras, tɛnɛbɔ, tinjeblas, tɛnɛbre, tɛnɛbrɔs, 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, lɛnge, mandukarɛ, mandukar, mandɖare, minka, konspuere, kogno:skere, kɔnɛtɔ, konɔθer, konɔffere, kunɛɸɔ, kinɔh, kunɔaɸte, pɛnsarɛ, pensar, pensare, pɛnsa, nekarɛ, nwaje, nɔga, neka, anegar, annegare, pugnarɛ, skindere, ɸindere, findere, ender, ɸendere, ɸendrɔ, pungere, punɖere, punɖe, nata:re, nadar, nwotare, nadaɔ, nɛɖar, nɔda, nada:, navigarɛ, naze, nabegar, navigare, naviyɔk, naviyɔr, nɔbɔga, nɛɖi:, naviga:, naviga, ɸamine, kaminar, kamminare, kɔmina, ɸimine, camina:, andar, andare, wenirɛ, vɔnɔk, benir, venire, bɔni, vini, veni, ekstendere, ekstender, estendere, ɔstendrɔ, ekstinde, sedenta:re, sentar, senta:, tornare, tɔɔne, tornar, tornare, tɔɔnɔk, turnar, turna, tɔɔrne, torna:, turna, tene:re, tɔnɔk, tener, tenere, tɔni, tini, tinji, tsine, stringere, strindɖere, stringe, strɛngi:, strindɖe, enxugar, impingere, impindɖere, impindɖe, lankearɛ, lanθar, lanɸare, ɔnsa, lanci:, lanɸa:, ɛrunkarɛ, arankar, arronɸare, kɔnsuere, kontar, kontare, konta:, ɛnumera:re, enumɛɔe, enumerar, enumerare, enumera, numara, ekspɔ:nere, spune, kanta:re, kantar, kantare, kɔnta, cantar, kinta, inglakiare, ingetsa, inkendere, enθender, inɸendjare, isendɖar, ɛnsendrɔ, inɸindɖe, omnɛ:s, tantus, tanto, tant, tanc, alguno, alkuno, magnum, grandem, grande, grande, gran, grant, longum, longo, lungo, lunk, lung, anɸo, pɛ:sant, pesante, pezant, pittinus, pitɸino, 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, ɸinko, ɸinɸ, kjen, ɸine, 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, marit:us, sponsus, esposo, spōzo, ispozu, əspōs, spo:s, sokius, sōfō, sots, be:stia, bis, piskem, pēs, pwasō, useł, passerem, passero, paseru, pasare, peduklus, fruktus, na:sus, naso, na:so, nas, na:s, nas, naris, na:ris, so:lem, sol, sole, sōw, sōł, sōł, sōł, sōare, solikulus, sōlej, soreli, ste:lla, estreja, stella, istrelə, əstəl, stō:l, stele, stęa, sa:lem, səl, sal, sale, saw, se, sa:l, sare, tene:bra:s, tinjebłas, tōnebrəs, fumasə, sjel, sēw, səl, si:ʁ, morsikare, moskar, morsikare, musəga, musəgar, musəya, murseka, su:gere, syse, sugax, sugar, sysi, suđe, konspuere, kōspy, kuspix, eskupir, əskupi, skujpa, sputere, esputar, sputare, spuda:, ski:re, sapere, savwax, saber, sabex, səber, səβe, savō:ʁ, save:, kogno:skere, kopeseʁ, kupiser, koposi, pe:nsa:re, pāse, pensar, pensare, pēsax, pēsar, pansa, pēse, pe:nsa:, pēsa, əksiʁ, uksi, fase, kasax, kesar, kəsa, fesi:, pulsare, puse, pulsare, pulsa:, pulsa, sekare, sje, segar, segare, segax, siyar, səya, sea:, ekskuratere, skortare, skurta:, skurta, skindere, sēde, se:para:re, səvke, separar, separare, separax, sipərar, səpəra, separa:, separa, rasar, rasare, rasa:, raskar, rəska, kosał, kusar, ekskaware, eskabar, skavare, ekstendere, ekstender, estendere, istēder, əstendrə, ekstinde, jesi, sede:re, swax, ser, sedere, sēx, sedenta:re, sentar, sētar, senta:, sta:re, estar, stare, əsta, ɛs, sta:, sta, ose, ałsa, ałsar, əłsa, hō:si, turser, tōrsə, segurar, sigurax, siyurar, eksprimere, ekspremir, sprēmere, əspremə, esprimi, skreme, serrere, serar, səxa, sərar, səra, serare, səxe, serrare, siʁar, sere, stringere, estrepiʁ, stringere, əstrepi, stringe, strēgi:, strinđe, frisar, frasa, ekstergere, estarsir, əstərzi, eksu:kare, esqije, suwe, suja:, uska, puse, pu:si, pulsa:, lase, lēsa, lēsar, lānsa, ko:nsuere, koser, qase, eksponere, sporre, spune, ekskurrere, eskurir, skorere, əskorə, skorir, skurđe, glase, gləsa, ɛsədje, isendjar, isēdjar, ənsendrə, ustula:re, ustolare, ustura, omne:s, to:tus, multus, tantus, paʁkus, alius, grawis, lurdus, pe:sant, pesađo, pesante, pittitus, pittinus, pitulus, kurtus, brewis, angustus, angosto, angusto, ingust, striktus, estrejfo, stretto, istrejtʉ, əstret, stō:, stret, strimt, minu:tus, de:lika:tus, subti:lem, sutil, sottile, sufjiw, suptil, suti, sutił, subtsire, russus, rosso, ros, rōs, vermikulus, rubeus, duo:s, dos, dojs, duas, duəs, tres, tres, tres, sēk, siku, siŋk, isi, kʷis, si:k
15	u	nu, vu, bus, tu, usted, mulierem, muxer, mułex, mułer, mułe, mui:r, mujere, epuz, mulier, muxer, mułex, mułer, mułe, mui:r, mujere, marit:us, maridu, mēridu, sponsus, epu, ispozu, iʃpozu, sokius, awikellum, utʃello, useł, utʃjel, paseru, peduklus, pu, piołu, pju, pədukje, fruktus, fruto, frutto, frute, frujt, frut, frukt, na:sus, bukka, buf, bukə, gula, gurə, solikulus, luna, luə, łuna, lune, lunə, pluwia, jubja, juvə, plužə, lakum, lagu, layu, nebula, negurə, fumata, fuma:ta, fumasə, fumate, kajlum, wentum, vētu, fokum, fogu, foyu, annum, enu, nume, kumer, mandukare, mandukar, muđer, musəga, musəgar, musəya, murseka, sugax, sugar, cucar, suđe, konspuere, kuspix, kufpir, eskupir, əskupi, skujpa, sputere, esputar, sputare, spuda:, kupiser, kunefə, kunqaste, kuzitar, kuzitar, kujda, kuđeta, durmir, durmi, durmi, muʁix, muxer, muri, muri, muri, tuwe, utʃidere, uksi, uʃide, pugna:re, puɲar, puɲpare, puɲa, battuere, pulsare, puse, puxar, pulsare, puʃax, puʃar, pulsa:, pulsa, kurta:re, kurtar, ekskurta:re, ekuxte, skurta:, skurta, pungere, punđere, puɲi, punđe, jugula:re, jugula:re, kusar, bula, zbura, lua, tuʁne, turnar, turna, turna, turser, tumbax, tumba, tume, segurar, sigurax, siyurar, enxugar, əʃfugare, ɛʃfugar, ɛʃuyar, əfuga, suwe, suja:, uska, puse, pulsa:, erunka:re, aruŋka, ko:nsuere, kudx, kuʃfire, kuzer, kuzi, kuzi, komputa:re, kumta, e:numera:re, enumexə, enumerar, enumerare, enumera, numara, spune, ludir, xugar, zuyar, zuga, ɟuwe, ɟuja:, zuka, flu:ktua:re, flugtwar, fluttuare, flutuax, flutuar, fluktua, fluctua, fluita:re, fluitare, fluere, fluir, fluire, flui, kule, kuar, kuł, ekskurrere, eskurir, iʃkurer, skurđe, kurrere, kuʁix, kuʁer, kurđe, bruʃfare, bruza:, ustula:re, ustolare, ustura, to:tus, tu, tutto, todū, todū, dut, multus, mu, muʃfo, mūjtʉ, mult, tantus, tētu, tētu, alguno, alkuno, əlgu, paʁkus, powku, owtru, alius, magnum, longum, lungu, lōgu, lunk, lung, largum, laɣgu, largu, la:tum, latu, amplum, ɛʃu, lurdus, luə, pezadu, pizađu, pittitus, pittinus, pekenu, pikenu, putsin, pitulus, piʃful, kurtus, kuʁ, kuʁtu, kurtu, kurt, kurt, angustus, angusto, ingust, striktus, istrejtʉ, iʃtrejtʉ, minu:tus, menudo, minuto, miudu, miuđu, mənut, minu, mərunt, de:lika:tus, dewgadu, dełyađu, subti:lem, sutil, sufjiw, suptil, sutił, subtsire, ruber, rubro, russus, ʁu, ʁofu, rofu, vermikulus, vəʁmełu, virməjlu, rubeus, ʁuz, rubjo, rubeo, ruđe, u:num, uno, un, uŋ, unu, duo:s, duaj, due, duas, duəs, duəʃ, kwatru, patru, siku, ekkumhi:k, kwēdu, komu, kum, nu
16	f	noʃ, vof, iʃpozə, iʃpozu, biffa, bife, peffe, pejfi, pejfi, pef, pešte, nərif, buf, iʃtrele, juvə, trevəʃ, kufpir, fti, konoffere, kunefə, kunqaste, fase, puʃax, puʃar, findre, ʁafkax, ʁəʃkar, iʃkəvax, iʃkəvar, fəmine, maxfe, iʃtēder, fedəa, iʃtar, alʃa:, fwaʁ, iʃprəməx, iʃprəmer, əʃtrizir, əʃtrizir, iʃfriɣar, iʃfriyar, iʃterđe, əʃfugare, ɛʃfugar, ɛʃuyar, əfuga, fāte, iʃkoʁəx, iʃkurer, ɛʃu, iʃtrejtʉ, ʁofu, ʁofu, dojʃ, duəʃ, tref, fi
17	oj	noj, voj, froj, rojb, dojs, dojʃ, doj

Appendix 3 - Segments used in the word list

18	v	vu, vo:i, vɔjs, vɔf, vos, vo:, voj, vose, vɔse, voste, avi, avi, fuvə, nəvwə, trɛvɛʃ, vã, vento, vētu, vē, vint, vint, bevi, savwax, savø:r, save:, vivx, vivere, vivek, viver, vivi, via, dividere, dʒivɪdʒɪx, diviðir, dividi, divide, sɔvɛ, kavare, kɛvax, kɛvar, ʧɑ:vle, java:, skavare, iʃkɛvax, iʃkɛvar, zjava:, navigare, navigare, navɪyax, nəvɪyax, naviga:, naviga, vole, volare, voax, vwar, vɔle, zvolare, zvolɑ:, vənɪx, venire, vɪx, vir, vini, vɪni:, veni, levare, lɔve, levare, levax, livar, leva:, vɪxə, virare, virar, lave, lavare, lɛvar, lava:, gɔav, grɛve, gravi, gravi, grav, grɛvi, brɛve, brɛvi, brɛvi, vermikulʊs, vɛxmej, vermɪllo, vɛxmeɬu, vɪrmɛjɬu, vɛx, verde, verdi, vɛrt, vɛx, vɛrt, verde, vi
19	b	bos, bus, embra, fembra, ombre, be:stia, biffa, bɪfə, bis, abe, bukka, buf, boka, bokka, bokə, bokə, bɔk, bɔce, bukə, jubja, nebula, njebla, nebbja, tene:braj, tɛ:nebre, tene:bras, tenɛbɪ, tinjeblas, tɛ:nebre, tɛnebrəs, bjento, ben, nombre, limbə, bibere, bwax, beber, bere, bebeɪ, biβer, bɛwrə, bɔ:x, bevi, bɛa, saber, sabɛx, sɛber, bibir, biwrə, battuere, batx, batir, battere, bateɪ, bɛter, batrə, bate, bati, dibidir, dibidi, kabar, kəba, eskabar, nabegar, nəbəga, bolar, bula, zbura, ambita:re, benir, bəni, jɛbar, ɬəba, bɪrar, bira, tɔbe, tumbax, tɔbar, tumba, bɔyle, bruʃare, bɔ:le, bruza:, flābe, grabe, brewis, bɛf, brɛbe, brɛve, brɛvi, brɛvi, brew, bɛf, subtilɛm, subtsire, ruber, rubro, bermexo, bərmɛɬ, rubeus, rubjo, rɔbbjo, rubeo, rojb, berde, ibi:
20	t	tu:, ty, tu, usted, voste, infantem, infante, fante, ifəti, mari:tus, marito, marit, marit, mərɪt, mɑ:trem, patre, tata, tatə, be:stia, peʃte, utʃello, fruktus, fruto, frutto, frutə, fruʃt, frut, frukt, steilla, etwal, estreja, stella, istrelə, iʃtrelə, əstɛl, stɔ:l, stele, stɛa, la:t, terra, tɛx, tjɛra, terra, tɛxə, tɛxə, tɛrə, tɛx, tjɛre, tene:braj, tɛ:nebre, tene:bras, tenɛbɪ, tinjeblas, tɛ:nebre, trɛvɛʃ, tɛnebrəs, fu:ma:ta, fumata, fuma:ta, fumate, wentum, bjento, vento, vētu, vint, vint, sputere, esputar, sputare, ʃti, kɔnɛtɪ, kuŋaʃte, kɔ:gita:re, koʒitare, kuzitax, kuzitar, kuʒeta, time:re, temer, temere, temɛx, timer, temə, temi, teme, tremere, tremɛr, tremare, tremɛx, trimer, trima:, tu:tɑ:ri, tɥe, tuwe, maktare, mate, matar, matax, mɛtar, mɔta, utʃidɛrɛ, battuere, batx, batir, battere, bateɪ, bɛter, batrə, bate, bati, kaptia:re, katʃare, kurta:re, kortar, kɔrtax, kurtar, ekskurta:re, ekurte, skortare, skurta, skurta, ta:lia:re, tqje, taxar, taɬɬa:re, taɬax, tɛɬar, tɔɬa, teji:, taja:, tɔja, fɛt, parti:re, paɬtɪx, partir, partire, pɛrtɪr, pɛrti, pɔ:rti, parti:, nata:re, nɔwtare, ambita:re, ekstendere, etɔdɪ, ekstender, estendere, istɛdɛx, iʃtɛdɛr, əstɛndrə, ekstinde, sedentare, sentar, sɛtar, stare, etɪ, estar, stare, iftar, əsta, sta:, sta, altiare, altʃa:, torna:re, tuɬne, tornar, tornare, tɔɬnax, turnar, turna, turne, torna:, turna, tɔrkʷɛrɛ, tɔɬdɪ, tɔrθɛr, tɔrʃɛrɛ, turser, tɔrsə, tɔarʃɛ, tɔbe, tumbax, tɔbar, tumba, tume, tene:re, tɔnɪx, tener, tenere, tɛx, tɛr, tɔni, tini, tinji, appekto:re, apɛtar, ɛpɪrtar, stringere, etɪdɪ, estɛpɪr, strɪndʒɛrɛ, əʃtrɪzɪr, əʃtrɪzɪr, əstɛpɪr, stringe, strɛngɪ:, strɪndʒɛ, frikta:re, fɔtɛ, frotar, frettare, tergere, tɛrdʒɛrɛ, ekstergere, estarsɪr, əstərzi, ʃtɛrdʒɛ, tira:re, tɪxə, tirar, tirare, tira, tire, tira:, trahere, tɪxɪ, trarre, traze, trɛzɛr, trɛwrə, traj, traɬɛ, jakta:re, zɔte, dʒettare, zejtɪr, xita, dʒɛte, aptare, atar, ɛtar, komputare, kɔte, kontar, kontare, kɔtar, kumta, kontar, kanta:re, ʃɔte, kantar, kantare, kɛtar, kɔnta, ʃɔte, cantar, kinta, fluktuare, flyktɥe, flugtwar, fluttuare, flutuax, flutuar, fluktua, fluctua, fluitare, fluitare, gʒatʃjare, ustula:re, ustolare, ustura, to:tus, tu, todo, tutto, todʊ, toɬu, tot, tɔ, dut, multus, molto, mɔjtu, mult, tantus, tanto, tɛtu, tɛtu, tant, tanc, alter, otɪ, otro, owtru, altrə, ɔt, altri, alt, grant, la:tum, lato, latu, lat, pesant, pesante, pɔzat, pezant, pittitus, pɔti, pɔtit, piti, pittinus, pitʃino, pitulus, kurtus, korto, korto, kuɬtu, kurtu, kurt, kurt, angustus, angosto, angusto, ɪngust, striktus, etɪwa, estɛfʃo, stretto, istɛjtu, iʃtrɛjtu, əstɛt, stɔx, strɛt, strɪmt, minu:tus, minuto, mənut, minu:t, mərunt, de:lika:tus, delikato, dəlikat, subtilɛm, sutil, sottile, suptil, su:ti, sutɪl, vɛrt, vɛrt, trɛ:s, tɪwɑ, tres, tre, tɛf, trɛs, trɔ:, tre:, trej, kʷattwor, katɪ, kwatro, kwattro, kwatru, kwatrə, kwat, kwatri, patru, kwant, ʃɛmu:t, et
21	u:	tu:, u:hɛ, fruktus, lu:na, plu:x, fu:ma:ta, fu:k, su:gere, tu:tɑ:ri, turne, eksu:ka:re, pu:si, lu:dere, fluktuare, bɔ:le, ku:x, minu:tus, minu:t, du:zɛ:, su:ti, u:num, ʃɛmu:t
22	y	ty, fry, lyn, njɔly, fyne, syse, sysɪ, kɔspye, zygyly, gyra:re, flyktɥe, flye, bɔyle, mənɪ

Appendix 3 - Segments used in the word list

23	d	usted, domina, dam, doṇa, dōṇa, donə, dōnə, dœm, dōne, dṡamnə, maridu, mā:dre, pā:dre, peduklus, pidəkkjo, pedoli, pədukje, pjoddṡa, komedere, mandukare, mandukar, morderē, moṡdṡ, mōrdere, moṡdēṡ, mwardi, spuda:, kuṡide, kwidar, kujda, kṡēdṡ, dormire, dṡmṡ, dormir, dormire, dṡmṡ, durmir, durmi, dwaxmi, durmi, dormi, okki:dere, utṡidere, uṡide, di:widere, dibidiṡ, dividere, diviṡiṡ, dibidi, dividi, divide, skindere, sēde, ṡindere, findere, fāṡ, ender, fēdere, fēdeṡ, fēder, fēndṡ, pṡēdṡ, ra:dere, radere, rada:, rade, fodere, nadar, nadaṡ, nāda, nada:, andar, andare, ēdaṡ, ēdar, ekstendere, etāṡ, ekstender, estēdere, istēdeṡ, iṡtēder, əstēndṡ, ekstinde, sede:re, sedere, fedṡa, sedenta:re, tṡdṡ, kadere, kadere, ṡjade, kṡṡa, epṡēdṡ, etṡēdṡ, limpida:re, kudṡ, di:kere, diṡ, deṡiṡ, dire, dizeṡ, di, di:ṡ, di:, lu:dere, ludiṡ, arde:re, aṡdṡ, arder, ardere, aṡdeṡ, ərder, arde, inkendere, ēsṡṡje, enṡender, inṡendjare, iṡēdjar, ənsēndṡ, inṡindṡe, todo, todṡ, dut, grandem, grande, grēdi, lurdus, lerdṡ, lordṡ, pezaṡ, menudo, miudu, de:lika:tus, du:ṡe, delyaṡo, delikato, dewgaṡu, deṡyaṡu, dṡlikat, wiridem, berde, verde, verdi, verde, duo:s, dṡ, dos, doṡs, doṡṡ, dṡ:, doṡ, duaj, due, dowṡ, duas, duṡs, duṡṡ, k ^w id, k ^w ando:, kwando, kwēdu, kwand, kind, k ^w o:modo
24	f	femina, fam, femmina, femeṡ, femjṡ, fembra, fœm, fēmine, femeje, infantem, āfā, infante, fante, iṡēṡi, iṡēti, ēfā, fruktus, fṡṡi, fruto, frutto, frutṡ, frujt, fry, frut, frukt, flo:rem, flœṡ, flor, fjo:re, floṡ, flṡ, flṡ:ṡ, flo:r, flṡare, fu:ma:ta, fyme, fumata, fuma:ta, fumaṡ, fumate, fokum, fṡ, fwego, fwōko, fogu, foṡu, fṡk, fṡ:, fu:k, fok, findere, fāṡ, fēdere, fēdeṡ, fēder, fēndṡ, fēt, fodere, fwṡ, frikare, fṡeje, fregar, fregar, frṡa, froj, frea, freka, iṡfriṡar, iṡfriṡar, frikta:re, fṡote, frotar, frettare, frisar, frṡa, flu:ktua:re, flyktṡe, flugtwar, fluttuare, flutuax, flutuar, fluktua, fluctua, fluita:re, fluitare, fluere, flye, fluir, fluire, flwṡ, flwir, flui, flamma:re, flābe, flamear, fjammare, flāma, flagra:re, flagṡe, flagrar, flagrare, flagṡax, flagrar, bṡef, bṡef
25	e:	femina, bestia, stella, tene:braj, tene:bra:s, morderē, save:, pensa:re, time:re, se:para:re, jakere, ṡaṡfe:re, sede:re, tork ^w :ere, tene:re, e:runkare, e:numera:re, arde:re, omne:s, pe:sant, de:lika:tus, du:ṡe, tre:s, tre:
26	m	femina, fam, embra, femmina, femeṡ, femjṡ, fembra, fœm, fēmine, femeje, mulierem, muxer, moṡṡe, muṡeṡ, muṡer, muṡe, muir, mujere, domina, dam, dœm, dṡamnə, hominem, əm, ombre, omēṡ, omēṡ, omṡ, əm, om, homo:, wōmo, infantem, mulier, muxer, moṡṡe, muṡeṡ, muṡer, muṡe, muir, mujere, mari:tus, maṡi, mariṡo, marito, maridu, mēriṡu, marit, mari:t, mērit, mā:trem, meṡ, māṡre, mā:dre, mēṡ, māṡ, meṡ, mari, animalia, omaj, alimaṡa, nema:l, nōmaje, piskem, awem, awikellum, passerem, flo:rem, so:lem, lakum, mare, meṡ, māṡ, māṡ, māṡ, meṡ, māṡ, sa:lem, ka:li:ginem, fu:ma:ta, fyme, fumata, fuma:ta, fumaṡ, fumate, kajlum, wentum, fokum, annum, no:men, no:me, nomi, nomi, nōm, nume, no:minem, nombre, limbṡ, komedere, komer, kome, kumer, mandukare, māṡe, mandukar, manṡare, mēṡax, mēṡar, mēṡa, māṡi, māṡa, minka, morderē, moṡdṡ, mōrdere, mōrdere, moṡdēṡ, mōrdere, mwardi, morsika:re, moskar, morsikare, musṡga, musṡgar, musṡya, murseka, time:re, temer, temere, temēṡ, timer, temṡ, temi, teme, tremere, tremer, tremare, tremēṡ, trimer, trima:, dormi:re, dṡmṡ, dormir, dormire, dṡmṡ, durmir, durmi, dwaxmi, durmi, dormi, muṡiṡ, morir, morire, moṡeṡ, muṡer, muṡi, mēṡi, muṡi, muri, makta:re, mate, matar, mataṡ, mētar, mēta, māṡa: fəmine, kaminar, kamminare, kēmiṡax, kēmiṡar, kēmina, ṡimine, camina:, māṡfe, mā:ṡfi:, mergere, mēṡṡere, mēṡṡe, ambita:re, tumbaṡ, tumba, tume, eksprimere, ekspremir, spremerē, iṡpremeṡ, iṡpremer, əspremṡ, esprimi, skreme, limpida:re, limpjar, impingere, impinṡere, əpreṡṡ, impinṡe, komputare, kumta, e:numera:re, enumeṡe, enumerar, enumerare, enumera, numara, krema:re, kṡame, kēmar, kremare, kējmaṡe, kējmaṡe, kṡama, flamma:re, flamear, fjammare, flāma, omne:s, multus, mu, muṡo, molto, mṡṡtu, mol, molc, mult, magnum, maṡo, maṡṡo, grandem, majjorem, mare, longum, largum, la:tum, amplum, ampjo, amplṡ, strimt, minu:tus, māny, menudo, minuto, miudu, miuṡu, mēnut, minu, minu:t, mērunt, subtilēm, vermikulus, vēmeṡ, bermexo, vermiṡṡo, vēmeṡu, virmēṡu, bērmeṡ, wiridem, u:num, ekkumhi:k, k ^w em, k ^w o:modo, kṡmā, komo, kome, komu, kṡm, kṡmē, ṡemu:t, kum

Appendix 3 - Segments used in the word list

27	a	<p>fe:mina, fam, embra, femmina, fembra, domina, dam, doṇa, dōnna, infantem, infante, fante, sponsa, esposa, spoza, ispoza, maritus, maṣi, mariḏo, marito, maridu, marit, marit, maḏre, marə, mari, patre, paḏre, paṛə, pari, tata, tatə, animalia, omaj, alimaṇa, nəmaje, be:stia, biṣṣa, pwasō, awem, abe, avi, avī, aw, awikellum, wazo, passerem, paxaro, passero, paseru, pasere, naso, nas, nas, nariḡ, nariṭe, naris, bukka, boka, bokka, gula, lu:na, luna, ste:lla, etwal, estreja, stella, ak^wa, aywa, akkwa, agwə, age, apə, pluwia, jubja, pjodḡa, lakum, lak, lago, lago, lagu, layu, lak, mare, mar, maḡ, mar, sal, sale, saw, sare, terra, tjera, tər̄ra, tsarə, kalina, kaliḡine, kaliḡē, nebula, njebla, nebbja, tinjeblas, fu:ma:ta, fumata, fuma:ta, fumasə, fumate, kajkia, annum, ap̄o, anno, ap, aṇ, an, ling^wa, lengwa, lingwa, manduka:re, mandukar, mandḡare, mēzaḡ, mēzar, mēṇza, maṇi, maṇja, minka, mwardi, moskar, morsikare, musəga, musəgar, musəḡa, murseka, sugaḡ, sugar, skujpa, esputar, sputare, sapere, savwaḡ, saber, sabəḡ, savə:ḡ, save:, kwidar, koḡitare, kuzitaḡ, kuzitar, kujda, kuḡeta, pensar, pensare, pēsəḡ, pēsar, pənsa, pəsa, tremare, dwaḡmi, via, nəga, neka, anegar, annegare, makta:re, mate, matar, mataḡ, mētar, mēta, maṭa, puṇar, puṇṇare, puṇa, battuere, batḡ, batiṛ, battere, bateḡ, batrə, bate, bati, kapti:re, fase, kaḡar, katṭfare, kasəḡ, kəsar, kəsa, caṭa, puxar, pulsare, puṭaḡ, puṭar, pulsa, segar, segare, segaḡ, siḡar, səḡa, kortar, koṭtaḡ, kurtar, skortare, skurta, taxar, taḡḡa:re, taḡaḡ, tēḡar, tēḡa, taja, taja, parti:re, paṭtiḡ, partiṛ, partire, paṭṭiḡ, partiṛ, se:para:re, separar, separare, separaḡ, siṇar, səṇa, sepa:ḡ, sepa:ra, raer, radere, waḡ, rawrə, rada:, rade, rasar, rasare, wa:zaḡ, wəzar, rəza, rasa:, raskar, waḡkaḡ, wəḡkar, rəska, kosaḡ, kusal, kaware, kabar, kavare, kevaḡ, kevar, kəba, ḡava:, ekska:re, eskabar, skavare, iḡkevaḡ, iḡkevar, zḡava:, nata:re, nadar, nwotare, nadaḡ, nēḡar, nēḡa, nada:, naviga:re, naḡe, nabegar, navigare, naviḡaḡ, nēviḡar, nəḡaḡ, naviga:, naviga, bolar, volare, voaḡ, vwar, bula, zvolare, zbura, kaminar, kamminare, kēmiṇaḡ, kēmiṇar, kəmina, camina:, maḡfe, ambita:re, andar, andare, ēḡaḡ, ēḡar, jakere, jaḡer, ḡaṭṭe:re, zaḡrə, swaḡ, sentar, sētar, estar, stare, iṭtar, əsta, sta, jebar, levare, levaḡ, livar, ləḡa, lua, alti:re, alḡar, altsare, aḡsa, aḡsar, əlsa, alṭa:, tornar, tornare, toḡnaḡ, turnar, turna, turna, xirar, ḡirare, zirar, zira, birar, virare, virar, bira, kadere, ḡwaḡ, kaer, kadere, kawrə, ṭḡjade, tumbaḡ, tōbaḡ, tōbar, tumba, segurar, siguraḡ, siḡurar, serar, səḡa, səraḡ, səra, serare, ḡerar, serrare, siḡar, appekto:re, apretar, epirtar, fregar, fregar, frəga, frea, freka, iḡfrigar, iḡfriḡar, frotar, frettare, frisar, frəsa, lawa:re, lave, laḡar, lavare, levar, lava:, la, estarsir, enxugar, affugare, ēḡugar, ēḡuḡar, əḡuga, uska, limpjar, lipar, tirar, tirare, ṭḡira, tira, trahere, trarre, traze, traḡe, jaktare, eṭṭar, ḡettare, zejtar, xita, lanke:re, lanḡar, lanṭfare, lēsa, lēsar, lənsa, lanci:, lanṭa:, arankaḡ, arronṭare, aruṅka, legar, legare, liḡa, lega, apta:re, atar, vtar, kontar, kontare, kōtar, kumta, enumerar, enumerare, enumera, numara, kanta:re, kantar, kantare, kētar, kənta, canta:, kinta, xugar, ḡokare, zogaḡ, zuḡar, zuga, zuka, flugtwar, fluttuare, flutuḡaḡ, flutuar, fluktua, fluctua, fluitare, kolar, kolare, koaḡ, kuar, kuḡa, elar, ḡelare, zilar, zəla, ḡale, glakia:re, glase, ḡjaṭṭḡare, gləsa, glaṭa:, inglakia:re, ingetsa, bruṭfare, kḡame, kemar, kremare, kējmaḡ, kejməḡ, krəma, flamma:re, flamear, fjammar, flama, ardere, aḡdḡ, arder, ardere, aḡdḡ, arde, flagra:re, flagḡe, flagrar, flagrare, flagḡaḡ, flagrar, inṭendḡare, isendḡar, isēḡar, ustolare, ustura, tantus, tanto, tant, tanc, alguno, alkuno, awḡ, aḡḡ, alter, altro, altrə, altri, alt, alius, aw, aḡ, magnum, maṇo, maṇṇo, grandem, grande, grande, gran, grant, mare, largum, laḡz, larḡo, largo, laḡgu, largu, lark, lark, larg, lato, latu, lat, amplum, anṭo, ampjo, amplə, grawis, ḡav, grabe, gravi, gravi, grav, pe:sant, pesaḡo, pesante, pezadu, piḡaḡu, pəzat, pezant, angustus, angos to, angusto, etḡwa, deḡaḡo, delikato, dewḡadu, deḡaḡu, dēlikat, duas, k^wattwor, katḡ, kwatro, kwattro, kwatru, kwatrə, kwat, kwatri, patru, aki, la, aja, əḡa, ai, kwa, k^wando:, kwando, kwan, kwand, kwant</p>
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Appendix 3 - Segments used in the word list

28	r	embra, fembra, muxer, mułer, ombre, muxer, mułer, mariđo, maridu, mēriđu, marit, mađre, marə, pađre, parə, paxaro, paseru, pasəre, fruto, frutə, frujt, flor, fjo:re, floare, nariθ, naris, neriř, gurə, sqare, estreja, istrelə, iřtrele, mar, treveř, tənebras, řer, nombre, beber, bere, biřer, bəwrə, komer, kumer, mandukar, manđare, mēzar, morđer, murđer, moskar, morsikare, sugar, kuspīr, eskupir, esputar, sputare, saber, səber, konoθer, kujiser, kwidar, kuzitar, pensar, pensare, pēsar, temer, timer, tremēr, tremex, trimer, dormir, durmir, bibir, viver, biwrə, morir, mułer, muri, anegar, matar, mētar, utřidere, pupar, batir, bēter, batrə, kaθar, kesar, puxar, pufar, segar, siyar, kortar, kurtar, taxar, tēlar, dibidir, diviđir, ender, fēder, fēndrə, partir, pērtir, separar, separax, siperar, səpəra, pūzir, raer, řeer, rawrə, rasar, řezar, raskar, řeřkar, kusar, kabar, kəvar, eskabar, iřkəvar, nadar, nwotare, nēđar, nabegar, nēviyar, bolar, volare, vwar, zvolare, zburə, kaminar, kamminare, kēminar, andar, ēdar, benir, venire, vir, ekstender, iřtēder, əstendrə, jaθer, đzaře:re, zezer, zawrə, ser, sentar, sētar, estar, iřtar, jebat, livar, alθar, ałsar, tornar, turnar, xirar, đřirare, zirar, zira, birar, virare, virar, bira, torθer, kaer, kadere, kēir, tumbat, tōbat, tener, tenere, ter, segurar, sigurar, siyurar, ekspremir, əspremə, serar, sərar, θerar, siřar, apretar, epirtar, estrepir, əstreņə, fregar, frəga, iřfrigar, iřřriyar, frotar, frisar, frəsa, lařar, ləvar, estarsir, enxugar, ēřugar, ēřuyar, limpjar, lipar, tirar, řira, tira, traze, trezer, trəwrə, eřar, zeřtar, lanθar, lēsar, arankar, aruřka, legar, atar, ętar, koser, kuzer, kontar, kōtar, enumerar, enumera, deθir, dizer, kantar, kētar, ludir, xugar, zuyar, flugtwar, flutuar, fluir, flwir, kolar, kuar, eskurir, iřkurer, skurđe, korer, kuřer, kurđe, elar, zilar, kemar, kējmare, flamear, arder, ęrder, arde, flagar, flagarar, enθender, isendřjar, isēđjar, ənsendrə, otro, owtru, altrə, grande, grēđi, grēdi, mare, laręo, largu, łark, grabe, gravi, gravi, grew, grew, lerdo, korto, kurtu, kurt, brebe, brevi, brew, estreřo, istreřtu, iřtreřtu, əstret, rořu, bermexo, virmęjłu, berde, verdi, vert, verde, tres, tref, kwatro, kwatru, kwatrə
29	ę	femeę, femje, donę, iřpoze, mēriđu, biře, paseru, frutə, neriř, bokę, luę, istrelə, iřtrele, agwę, řuvę, tēkę, tēkę, keližę, nęvwę, treveř, fumase, ęnu, ligwę, səber, mētar, bēter, kesar, tēlar, pērtir, siperar, řeer, řezar, řeřkar, kəvax, kəvar, iřkəvax, iřkəvar, nēđar, nēviyar, kēminax, kēminar, zezer, zezer, kēir, epirtar, ləvar, trezer, ętar, ęrder, duę, duęř, ęki, ęi
30	œ	fœm, dœm, flœk
31	ę	femine, efđ, pes, pehđ, utřello, utřjel, bœę, əstel, stele, mek, sel, terra, tēkę, tērə, tjere, nęvwę, tenebę, treveř, řjel, řelo, sew, sel, vento, lęge, bęwrə, səře, kœnetę, kuneřə, řesi: teji, fendere, fēndrə, nęđi: merđere, estendere, etę, es, spremer, sere, əstreņə, strengi: terđere, tēkę, trəwrə, əmpreņə, đęete, inřendjare, greve, grevi, bęeř, breve, brevi, brevi, əstret, řret, deřęađu, vękmej, bęrmeł, vert, vęk, vert, tres, ke, e
32	l	mulierem, mulier, animalia, alimapa, nema:l, awikellum, utřello, utřjel, peduklus, pedoli, flo:rem, flœk, flor, flok, flə, flœk, flo:r, floare, gula, so:lem, sol, sole, səl, sələ, solikulus, sölę, soreli, luna, lyn, luna, luę, lön, lune, lunə, ste:lla, etwal, stella, istrelə, iřtrele, əstel, stəl: stele, pluwia, plui, pluza, plu:k, ploje, pləje, lakum, lak, lago, lago, lagu, layu, la:t, sa:lem, sel, sal, sale, sa:l, ka:li:ginem, kalina, kalidžine, kalizę, keližę, nebula, njoly, njebla, newlə, tinjeblas, kajlum, řjel, θjelo, řelo, sel, ři:l, ling ^w a, ląg, lengwa, lingwa, ligwę, lęu, lęge, limbə, pulsa:re, pulsare, pulsa: pulsa, ta:liare, jugula:re, zygye, jugula:re, řə:vle, wolare, vole, bolar, volare, bula, völe, zvolare, zvola: levare, ləve, levare, levax, livar, leva: lua, altia:re, alθar, altsare, əlsa, alřar, laware, lave, lařar, lavare, ləvar, lava: la, limpida:re, limpjar, lipar, pulsa: lankea:re, lāse, lanθar, lanřare, lēsa, lēsar, lanci: lanřar, liga:re, lie, legar, legare, lōji: lea: lega, ludere, ludir, flu:ktuare, flyktę, flugtwar, fluttuare, flutuax, flutuar, fluktua, fluctua, fluitare, fluitare, fluere, flye, fluir, fluire, flwir, flwir, flui, ko:la:re, kule, kolar, kolare, kōle, gela:re, zəle, elar, đęelare, zilar, zəla, đęale, glakia:re, glase, gləsa, glatřar, inglakia:re, bęyle, bęu:le, flamma:re, flābe, flamear, flagrare, flagę, flagar, flagrare, flagvax, flagar, ustula:re, ustolare, multus, molto, mol, molc, mult, alguno, alkuno, əlgu, alter, altro, altrə, altri, alt, alius, longum, lō, longo, lungo, lōgu, lō, lunk, lung, largum, ląz, laryo, largo, lągu, largu, lark, larg, la:tum, le, lato, latu, lat, amplum, āpl, amplə, lurdus, lųk, lerdo, lordo, pitulus, pikkolo, piřul, de:lika:tus, deřęađu, delikato, dęlikat, 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, mōrit, mā:trem, mā:dre, mari, patre, pā:dre, pē:r, pari, passerem, passero, fru:ktus, frutto, frut, frukt, flo:rem, flo:r, nari:fē, nari:s, soreli, mare, mar, mar, sare, terra, tjera, terra, tērā, tjere, tsarā, negurā, tene:braj, tē:nebre, tene:bra:s, tē:nebre, bibere, komedere, manduka:re, mordre:re, mōrdere, mwardi, morsika:re, morsikare, musəgar, murseka, su:gere, konspuere, sputere, ski:re, sapere, kogno:skere, konoffere, ko:gita:re, kođitare, pē:nsa:re, time:re, temere, tremere, tremare, trima:re, dormi:re, dormire, durmi, durmi:, dormi, wi:were, vivere, morire, muri:, muri, neka:re, annegare, tu:tari, maktā:re, okki:dere, pugna:re, puṇṇare, battuere, battere, kaptia:re, katffare, pulsa:re, pulsare, seka:re, segare, kurtā:re, ekskurtā:re, skortare, skurta:, skurta, ta:lia:re, ta:llā:re, di:widere, dividere, skindere, findere, findere, fendere, parti:re, partire, pōrti, parti, se:para:re, separare, separa:, separa, pungere, punđere, jugula:re, jugula:re, rā:dere, rāer, radere, rawrā, rada:, rade, rasar, rasare, rāza, rasa:, raskar, rāska, fodere, kawa:re, kavare, ekskawa:re, skavare, nata:re, naviga:re, navigare, wola:re, mergere, mērdžere, merđže, ambita:re, andare, weni:re, ekstendere, estendere, jake:re, đere, sedere, sedere, sedenta:re, sta:re, stare, leva:re, levare, altia:re, alsare, torna:re, tornare, turna, tu:rne, torna:, turna, gyra:re, đirare, đirā:, virare, tork ^w :ere, tōrtfere, turser, tōrsā, tōartfē, kadere, kawrā, tene:re, eksprimere, spremere, iṣprāmēk, iṣprāmer, esprimi, skreme, serrere, serar, sēra, serare, θerar, serrare, appektora:re, stringere, strindžere, əṣtrīzir, əṣtrīzir, stringe, strēngi:, strindžē, frikare, fregare, froj, frea, freka, frikta:re, frettare, frisar, lawa:re, lavare, tergere, terđžere, ekstergere, əstərzi, ʃterđže, eksu:ka:re, əṣṣugare, limpidare, tira:re, tirare, tire, tira:, trahere, trarre, traj, trađže, impingere, impindžere, jakta:re, đettare, lankeare, lanffare, e:runka:re, arankar, arrontffare, liga:re, legare, apta:re, ko:nsuere, kuṭfire, komputa:re, kontare, e:numera:re, enumerare, numara, di:kere, dire, ekspo:nere, sporre, kanta:re, kantare, lu:dere, joka:re, đokare, flu:ktua:re, fluttuare, fluita:re, fluitare, fluere, fluire, ko:lare, kolare, ekskurrere, eskurir, skorrere, əskorā, skori:, kurrere, korer, korrere, korā, kori, gela:re, đelare, glakia:re, gjattffare, inglakia:re, bruṣfare, bruzā:, kremare, kremare, krāma, flamma:re, fjammarē, arde:re, ardere, flagra:re, flagrare, inkendere, inffendjare, ustula:re, ustolare, ustura, alter, altro, altri, grandem, grande, gran, grant, majjorem, largum, largo, lark, larg, grawis, grēve, grav, gravi, lurdus, lordo, kurtus, korto, kurt, brewis, brēve, striktus, stretto, stret, strimt, mārunt, subtsire, ruber, rubro, russus, roxo, rosso, ros, rōs, vermikulus, vermi:llō, bērmēl, rubeus, rubjo, rōbbjo, rubeo, ruđže, rōṣ, rojb, wiridem, verde, vērt, tre:s, tre, tres, trō:, tre:, trej, k ^w attwor, kwattro, kwatri, patru
34	x	muxer, muxer, paxaro, pjoxo, puxar, taxar, xirar, enxugar, xita, xugar, roxo, bermexo
35	λ	moλλe, μυλε, μυλε, μυλε, moλλe, μυλε, μυλε, μυλε, useλ, pioλu, poλ, λuη, λak, taλλā:re, taλav, tēλar, tēλa, λēba, λēnsa, λiγa, λoṇ, λark, vermiλλō, vēmēλu, virmēλu, bērmēλ, əλa
36	в	мυλε, μυλε, мавi, мев, реv, фvqi, flōv, flov, flō:v, plu:v, mev, mav, mev, tev, tēv, tēv, tēv, tēv, tēv, si:v, bwav, bebev, bō:v, mēžav, movdv, movdēv, sugav, kuspi:v, savwav, sabēv, kōnetv, kopesev, kužitav, pēsav, temev, kvēdv, tremev, dōvmiv, dovmiv, dwavmi, vivv, vīvev, muviv, movev, muver, matav, əksiv, batv, batev, kasav, puṣav, segav, kovtav, ekuvte, taλav, đivivđiv, fādv, fēdev, pavtiv, pavfiv, sāvve, separav, pwēdv, pūživ, vav, vev, vaze, vazav, vūzar, vafkav, vefkar, fwiv, kēvav, iṣkēvav, nadav, navivav, voav, kēmivav, mavfe, ēdav, vōniv, vīv, etādv, istēdev, zeziv, zēzev, swav, sev, etv, levav, tuvne, tovnav, zivē, vīve, tōvdv, fwav, tōbvav, tōniv, tev, sigurav, epvēdv, iṣprāmēv, seva, seve, sivar, etvēdv, fvēje, fvōte, tivē, tvēv, kudv, enumēve, div, di:v, zogav, flutuvav, flwiv, koav, iṣkovēv, kuviv, kovēv, kuvēv, bvyle, bvū:le, kvame, kejmavē, avdv, avdev, flagvē, flagvav, otv, gvā, gvā, lavz, lavgu, gvav, luk, kuv, kuvtu, ku:v, bvēf, bvēf, etvwa, stvō:, vu, vofv, vofv, vēmēj, vēmēλu, vuz, vev, vev, tvwa, katv
37	i:	mui:r, mui:r, mari:tus, mari:t, ka:li:ginem, si:v, ʃi:l, ma:ni:, sysi:, ski:re, dormi:re, durmi:, wi:were, muri:, okki:dere, ʃesi:, teji:, di:widere, parti:re, parti:, neđji:, ma:ṛʃi:, weni:re, vīni:, hō:si:, strēngi:, pu:si:, lanci:, lōji:, di:kere, di:v, di:, skori:, subtilēv, suti:l, k ^w ink ^w e, ekkumhi:k, ibi:, ki:, si:k
38	п	допа, niṇo, alimaṇa, apo, ap, mārza, ma:ni:, kopesev, kupiser, koposi, puṇar, puṇṇare, puṇa, puṇi, kēmivav, kēmivav, vīni:, estrepiv, əstreṇā, əmpeṇā, oṇṇi, maṇo, maṇṇo, pekeṇo
39	qa	doamṇā, floare, sqare, ploaje, kunqaste, tōartfē, cōase
40	h	hominem, homo:, pēhō, u:hē:, kinōh, hō:si:, trahere, ekkumhi:k
41	ēj	omēj, əmēj, nenēj, kalizēj, kēj, nēj
42	ō	ō, nō, kōspye, lō, nō
43	ā	āfā, efā, vā, ā, lāg, māže, pāse, fādv, etādv, lāse, ʃāte, ʃāte, flābe, ēsādje, gvā, gvā, āpl, pāzā, kā, kōmā
44	ī	īfēʃi, īfēti, līgwe, əṣtrīzir, əṣtrīzir, lipar, īsenđiar, īsēdjar, siku
45	ē	īfēʃi, īfēti, mēžav, mēžar, ēdav, ēdar, lēsa, lēsar, kētar, tētū, tētū, grēđi, grēdi, ēfu, kwēdu

Appendix 3 - Segments used in the word list

46	f	ifēfi, sɔfɔ, uttfello, utfjel, nariŋe, f̥eaf̥ə, f̥elo, f̥i:l, f̥er, matfa:, uttfidere, utfide, katf̥are, f̥esi:, catfa:, paŋf̥iɤ, f̥imine, ma:rt̥fi:, d̥aŋf̥e:re, zəŋf̥ə, tɔrt̥fere, tɔart̥f̥e, f̥e:ɤ, f̥jade, f̥ira, eŋar, lanf̥are, lanf̥a:, arront̥fare, kuŋfire, ziŋf̥e, f̥ōte, g̥jatt̥f̥are, glaŋfa:, bruŋfare, inŋf̥end̥jare, inŋf̥ind̥ze, muŋf̥o, anŋf̥o, pitf̥ino, piŋful, estreŋf̥o, suŋfiw, rɔŋf̥, f̥iŋkwe, f̥iŋk, f̥iŋf̥, f̥ine, f̥e, f̥emu:t
47	i	if̥ēti, iŋpoze, iŋpozu, peŋfi, avi, iŋtrele, vint, nomi, biŋer, minka, kupiser, timer, trimer, siyar, sip̄erar, naviyax, naviyar, iŋtar, livar, sigurax, siyurar, siɤar, epirtar, strind̄ge, iŋfrigar, iŋfriyar, impind̄ge, kinta, zilar, ingetsa, inŋf̥ind̥ze, gr̄ēdi, gravi, pizaðu, pikenu, br̄evi, ingust, iŋtr̄ejtu, strimt, virmeŋlu, verdi, ki, kind
48	p	sponsa, epuz, esposa, spɔza, ispoza, iŋpoze, əspɔzə, sponsus, epu, esposo, spɔzo, ispozu, iŋpozu, əspɔs, spo:s, patre, peɤ, paðre, pa:ðre, paj, paɤ, p̄er, pari, piskem, peθ, peŋfe, peŋfi, peŋfi, peŋ, p̄es, peŋte, pwasō, p̄ehō, passerem, paxaro, passero, pas̄eru, pas̄are, peduklus, pu, p̄joxo, pidakkjo, pioɤu, poɤ, p̄ju, pedoli, p̄adukje, ap̄ə, pluwia, pl̄qi, p̄jod̄ga, pluɤə, plu:ɤ, ploje, pl̄qaje, konspuere, kōspyē, kuspiɤ, kuspiɤ, eskupiɤ, əskupi, skujpa, sputere, esputar, sputare, spuda:, sapere, pen̄sa:re, p̄ase, pensar, pensare, p̄esax, p̄esar, p̄ansa, p̄ese, pen̄sa:, p̄esa, pugnare, puɤar, puɤɤare, puɤa, kaptia:re, pulsa:re, puse, puxar, pulsare, puŋax, puŋar, pulsar, pulsa, parti:re, paŋtiɤ, paŋtiɤ, paŋtiɤ, paŋf̥iɤ, p̄ertiɤ, p̄ertiɤ, p̄o:rti, paŋtiɤ, se:para:re, separar, separare, separax, sip̄erar, səp̄ara, separa:, separa, pungere, p̄wēd̄x, pund̄gere, p̄ūziɤ, p̄ūziɤ, puɤi, pund̄ge, eksprimere, ep̄wēd̄x, ekspremiɤ, spremer, iŋp̄r̄em̄ax, iŋp̄r̄em̄er, əsp̄rem̄ə, esprimi, appektora:re, ap̄retar, ep̄irtar, limpida:re, limpjaɤ, lipar, puse, pu:si:, pulsa:, impingere, impind̄gere, əmp̄er̄ə, impind̄ge, aptare, komputa:re, ekspon̄ere, sporre, spune, paɤkus, p̄ə, p̄oko, p̄oko, powku, p̄ək, p̄ō, p̄o:k, amplum, āpl, ampjo, amplə, pesant, p̄əz̄ā, pesaðu, pesante, pezadu, pizaðu, p̄əzat, pezant, pittitus, p̄əti, p̄ətit, piti, pittinus, pekeɤo, pitf̥ino, pekenu, pikenu, putsin, pitulus, pikkolo, piŋful, suptil, patru
49	z	epuz, spɔza, ispoza, iŋpoze, əspɔzə, spɔzo, ispozu, iŋpozu, wazo, ɤaze, ɤazax, ɤezar, r̄əza, z̄ɤava:, zvolare, zvolar, zbura, zeziɤ, z̄ez̄ex, z̄ez̄er, zəŋf̥ə, traze, tr̄ez̄er, kuzer, kuzi, k̄ə:z, kuzi, dizer, ziŋf̥e, bruza:, p̄əz̄ā, pezadu, pizaðu, p̄əzat, pezant
50	ð	mariðu, m̄eriðu, maðre, paðre, morðer, murðer, diviðir, n̄əðar, toðu, pesaðu, pizaðu, miuðu, delyaðu, d̄əŋyaðu
51	k	sokius, piskem, awikellum, peduklus, pidakkjo, p̄adukje, fru:ktus, frukt, bukka, boka, bokka, bok̄ə, bok̄ə, bok̄, buk̄ə, solikulus, akkwa, lakum, lak, ɤak, ka:li:ginem, kalina, kalið̄gine, kalið̄ḡē, k̄elið̄ḡē, kajkia, kajlum, fokum, fw̄oko, f̄ək, fu:k, fok, komedere, komer, kome, kumer, mandukare, mandukar, minka, morsika:re, moskar, morsikare, murseka, konspuere, kōspyē, kuspiɤ, kuspiɤ, eskupiɤ, əskupi, skujpa, ski:re, kogno:skere, k̄on̄et̄x, konoθer, konoffere, koɤesex, kupiser, kun̄f̥ə, kin̄əh, koposi, kun̄q̄aste, ko:gi:ta:re, kuide, kwidar, koð̄gitare, kuzitaɤ, kuzitar, kujda, kuð̄geta, k̄wēd̄x, neka:re, neka, maktare, okki:dere, əksiɤ, uksi, kaptia:re, kaθar, katf̥are, kasax, k̄esar, k̄esa, seka:re, kurtare, kortar, koŋtaɤ, kurtar, ekskurta:re, ek̄u:te, skortare, skurta:, skurta, skindere, raskar, ɤaf̄kaɤ, ɤef̄kar, r̄əska, kosaɤ, kusar, kawa:re, kabar, kavare, k̄əvaɤ, k̄əvaɤ, k̄əba, ekskawa:re, eskabar, skavare, iŋk̄əvaɤ, iŋk̄əvaɤ, kaminar, kamminare, k̄emiɤax, k̄emiɤar, k̄emina, ekstendere, ekstender, ekstinde, jake:re, kadere, kaer, kadere, k̄eiɤ, kawr̄ə, k̄əð̄ga, eksprimere, ekspremiɤ, skreme, appektora:re, frika:re, freka, frikta:re, ekstergere, eksu:ka:re, uska, jakta:re, lankeare, e:runka:re, arankar, aruŋka, ko:nsuere, kud̄x, koser, kuŋfire, kuzer, kuzi, k̄ə:z, kuzi, komputa:re, k̄ōte, kontar, kontare, k̄ōtar, kumta, konta:, di:kere, ekspon̄ere, kantare, kantar, kantare, k̄ētar, k̄ənta, k̄inta, joka:re, d̄ḡokare, zuka, flu:ktuare, flykt̄q̄e, fluktua, ko:la:re, kule, kolar, kolare, koax, kuar, kuɤa, k̄ole, ekskurre, eskurir, skorrere, iŋk̄oɤex, iŋk̄uɤer, əskor̄ə, skori:, skur̄d̄ge, kurrere, kuɤiɤ, korer, korrere, koɤex, kuɤer, kor̄ə, kori, kur̄d̄ge, glakia:re, inglakia:re, kremare, k̄rame, kemaɤ, kremare, k̄ejmare, keɤmaɤe, kr̄əma, inkendere, ok̄ē, alkuno, paɤkus, p̄oko, p̄oko, powku, p̄ək, p̄o:k, lunk, ɤark, lark, pekeɤo, pekenu, pikenu, pikkolo, kurtus, kuɤ, korto, korto, kuɤtu, kurtu, kurt, ku:ɤ, kurt, striktus, de:likatus, delikato, d̄əlikat, vermikulus, kat̄x, kwatro, kwattro, kwatru, kwatr̄ə, kwat, kwatri, s̄ək, θinko, f̄iŋkwe, siɤu, siŋk, f̄iŋk, ekkumhi:k, aki, kwi, ɤki, illa:k, ki, ki:, kwi, kjen, k̄ēj, k̄ēj, kwa, ke, ki, k̄e, kw̄e:, k̄ā, kwando, kw̄ēdu, kwan, kwand, kwant, kind, k̄om̄ā, komo, kome, komu, k̄om, k̄om̄ē, kum, nek, si:k
52	ts	sots, tsar̄ə, altsare, tsine, ingetsa, putsin, subtsire

Appendix 3 - Segments used in the word list

53	a:	ma:trem, ma:dre, pa:dre, nema:l, na:sus, na:so, na:s, na:rɪs, la:t, ma:r, sa:lem, sa:l, ka:li:ginem, tene:bras, fu:ma:ta, fuma:ta, manduka:re, maŋja, morsika:re, cuca:, spuda:, ko:gi:ta:re, pe:nsa:re, pe:nsa:, trima:, neka:re, tu:ta:ri, makta:re, maŋja, pugna:re, kapti:are, ca:ŋa:, pulsa:re, pulsa:, seka:re, sea:, kurtare, ekskurta:re, skurta:, ta:lia:re, ta:la:re, taja:, sepa:re, sepa:re, 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:rŋi:, ambita:re, sedenta:re, senta:, sta:re, sta:, leva:re, leva:, altia:re, altfa:, torna:re, torna:, gyra:re, dŋira:, appekto:re, frika:re, frikta:re, lawa:re, lava:, eksu:ka:re, suja:, limpida:re, tira:re, tira:, pulsa:, jakta:re, lankea:re, lanŋa:, erunka:re, liga:re, lea:, apta:re, komputa:re, konta:, e:numera:re, kanta:re, canta:, joka:re, dŋuja:, flu:kta:re, fluita:re, ko:la:re, gela:re, glakia:re, glaŋfa:, inglakia:re, bruza:, krema:re, flamma:re, flagra:re, ustula:re, la:tum, de:lika:tus, illa:k
54	ēj	mēj, kēlɪzēj, kēj, nēj
55	r	mer, fry, savø:r, mōri, pō:rti, ma:rŋi:, ʃe:r, sərər, sere, ifkurer
56	aj	paj, aɣwə, tene:braj, kajkia, kajlum, nwaje, traj, majjorem, duaj
57	ε:	pər, u:hε:, ε:w, tε:ɤ, tε:nebre, tε:nebre, ʃe:r, kwε:
58	θ	peθ, nariθ, θjelo, konoθer, kaθar, jaθer, alθar, torθer, θerar, lanθar, deθir, enθender, θinko
59	ej	pejŋi, zejtar, kejmæ, istrejtu, trej
60	ej	pejŋi, kejmæ, iftrejtu, virmejlu
61	ō	pwasō, pēhō, nō, tōbe, tōbaɤ, tōbar, kōte, kōtar, pō, ōt, lōgu, lō, ō
62	ɥ	fɥqi, plɥi, kɥide, tɥe, esɥije, flyktɥe
63	ø:	flø:ɤ, stø:l, fø:, bø:ɤ, savø:r, kō:z, stø:, dø:, trø:
64	c	bōce, cuca:, ca:ŋa:, camina:, lancɪ:, cōase, canta:, fluctua, molc, tanc
65	g	gula, gurə, age, lago, lengε, pugna:re, segar, segare, jugula:re, naviga:re, naviga:, mergere, gyra:re, stringere, stringe, strēngɪ:, fregare, impingere, lega, xugar, glaŋfa:, ingetsa, flagɤaɤ, alguno, magnum, grandem, gran, gɤd, grant, longo, lung, largum, larg, grav, grevi, grew, ingust
66	ł	sɔł, ałsa, ałsar, kuł, fłama, ałgū, ał, dełɣaɔu
67	ej	sɔlej, fɤeje, vɤɤmej
68	ø	løn, fø, pø, dø
69	ɛa	stɛa, ʃɛaɣə, bɛa, zəɣɛa, fedɛa, kəɣɛa
70	k ^w	ak ^w a, tork ^w ere, k ^w attwor, k ^w i:nk ^w e, k ^w is, k ^w em, k ^w id, k ^w ando:, k ^w o:modo
71	ɣ	aɣwa, aɣwə, laɣu, foɣu, musəɣa, siɣar, səɣa, naviɣaɤ, neviɣar, siɣurar, iffriɣar, ɛsuɣar, liɣa, zuɣar, larɣo, deɣaɔo, deɣaɔu
72	ē	vētu, vē, pēsax, pēsar, kēdɤ, fēdɤ, fēder, istēdɤ, iftēder, sētar, ɛfugar, ɛsuɣar, isēdjar, sēk, nē
73	η	aη, nɔη, leŋgwa, maŋja:, peŋsa:, aruŋka, λoη, iŋgust, uη, ʃiηkwe, siηk, ʃiηk
74	g ^w	ling ^w a
75	ēu	lēu
76	α	bwaɤ, taje, ɤaze, tɤwa
77	β	biβer, səβe, laβar
78	ɟ	maŋja:, java:, zjava:
79	ē	pēse, sēde, fēt, pwēdɤ, epwēdɤ, etwēdɤ, ɛsādje, kɔmē
80	ɔ:	pō:rti, hō:si:
81	ū	pūzɪɤ, pūzir, mūjtu, awgū, ałgū, ū
82	ɫ	kosaɫ
83	ç	çavle
84	α:	çavle
85	j	mūjtu
86	œ	okœ, œ
87	aɥ	paɥkus
88	ɔ	ɤofɔ
89	ēw	nēw

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
Father	patre	p-ah-t-r-ay
Father-Tata	tata	t-ah-t-ah
Animal	animalia	ah-n-e-m-ah-l-e-ah
Animal-Bestia	be:stia	b-ai-s-t-e-ah
Fish-Piskem	piskem	p-e-s-k-ay-m
Bird-Avem	awem	ah-w-ay-m
Bird-Avicellum	-awi-k-ellum	ah-w-e-k-ay-l-l-u-m
Bird-Passerem	passerem	p-ah-s-s-ay-r-ay-m
Louse	p-edu-klus	p-ay-d-u-k-l-u-s
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
Mouth	bukka	b-u-k-k-ah
Mouth-Gula	gula	j-u-l-ah
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

Appendix 4 - Word Lists by Language

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
ToSpit-Sputare	-sputere	s-p-u-t-ay-r-ay
ToKnow	ski:re	s-k-E-r-ay
ToKnow-Sapere	sap:ere	s-ah-p-ay-r-ay
ToKnow-Cognoscere	kogno:skere	k-oh-g-n-O-s-k-ay-r-ay
ToThink	k-o:gita:re	k-O-g-e-t-A-r-ay
ToThink-Pensare	pe:nsa:re	p-ai-n-s-A-r-ay
ToFear	time:re	t-e-m-ai-r-ay
ToFear-Tremere	trem:ere	t-r-ay-m-ay-r-ay
ToSleep	d-ormi:re	d-oh-r-m-E-r-ay
ToLive	wi:were	w-E-w-ay-r-ay
ToKill	n-eka:re	n-ay-k-A-r-ay
ToKill-Tutari	tu:-ta:ri	t-U-t-A-r-e
ToKill-Mactare	makta:re	m-ah-k-t-A-r-ay
ToKill-Occidere	okki:dere	oh-k-k-E-d-ay-r-ay
ToFight	pugna:re	p-u-j-n-A-r-ay
ToFight-Battuere	battuere	b-ah-t-t-u-ay-r-ay
ToHunt-Captiare	kaptia:re	k-ah-p-t-e-A-r-ay
ToHit	pulsa:re	p-u-l-s-A-r-ay
ToCut	s-eka:re	s-ay-k-A-r-ay
ToCut-Curtare	kurta:re	k-u-r-t-A-r-ay
ToCut-Excurtare	ekskurta:re	ay-k-s-k-u-r-t-A-r-ay
ToCut-Taliare	ta:-lia:re	t-A-l-e-A-r-ay
ToSplit	di:widere	d-E-w-e-d-ay-r-ay
ToSplit-Scindere	skindere	s-k-e-n-d-ay-r-ay
ToSplit-Findere	findere	f-e-n-d-ay-r-ay
ToSplit-Partire	parti:re	p-ah-r-t-E-r-ay
ToSplit-Separare	se:para:re	s-ai-p-ah-r-A-r-ay
ToStab	p-ungere	p-u-n-g-ay-r-ay
ToStab-Iugulare	jugula:re	jg-u-g-u-l-A-r-ay
ToScratch	ra:dere	r-A-d-ay-r-ay
ToDig	fodere	f-oh-d-ay-r-ay
ToDig-Cavare	kawa:re	k-ah-w-A-r-ay
ToDig-Excavare	ekskawa:re	ay-k-s-k-ah-w-A-r-ay
ToSwim	n-ata:re	n-ah-t-A-r-ay
ToSwim-Navigare	naviga:re	n-ah-v-e-j-A-r-ay
ToFly	wola:re	w-oh-l-A-r-ay
ToWalk-Mergere	mergere	m-ay-r-j-ay-r-ay
ToWalk-Ambitare	ambita:re	ah-m-b-e-t-A-r-ay
ToCome	weni:re	w-ay-n-E-r-ay
ToLieAsInABed	ekstendere	ay-k-s-t-ay-n-d-ay-r-ay
ToLieAsInABed-lacere	ja-ke:re	jg-ah-k-ai-r-ay
ToSit	s-edere	s-ay-d-ai-r-ay
ToSit-Sedentare	sedenta:re	s-ay-d-ay-n-t-A-r-ay
ToStand	-sta:re	s-t-A-r-ay
ToStand-Levare	leva:re	l-ay-v-A-r-ay
ToStand-Altiare	-altia:re	ah-l-t-e-A-r-ay
ToTurnIntransitive	torna:re	t-oh-r-n-A-r-ay
ToTurnIntransitive-Gyrare	gyra:re	j-eeh-r-A-r-ay
ToTurnIntransitive-Torquere	tork ^w e:re	t-oh-r-kw-ai-r-ay
ToFall	k-adere	k-ah-d-ay-r-ay

Appendix 4 - Word Lists by Language

ToHold	ten-e:re	t-ay-n-ai-r-ay
ToSqueeze	eksprim-ere	ay-k-s-p-r-e-m-ay-r-ay
ToSqueeze-Serrere	serrere	s-ay-r-r-ay-r-ay
ToSqueeze-Serare	se-rare	s-ay-r-ah-r-ay
ToSqueeze-Appetorare	appetora:re	ah-p-p-ay-k-t-oh-r-A-r-ay
ToSqueeze-Stringere	-stringere	s-t-r-e-n-j-ay-r-ay
ToRub	frika:re	f-r-e-k-A-r-ay
ToRub-Frictare	frikta:re	f-r-e-k-t-A-r-ay
ToWash	lawa:re	l-ah-w-A-r-ay
ToWipe	tergere	t-ay-r-g-ay-r-ay
ToWipe-Extergere	ekstergere	ay-k-s-t-ay-r-g-ay-r-ay
ToWipe-Exsucare	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-Flutare	fluita:re	f-l-u-e-t-A-r-ay
ToFlow	fluere	f-l-u-ay-r-ay
ToFlow-Colare	ko:la:re	k-O-l-A-r-ay
ToFlow-Excurrere	ekscurrere	ay-k-s-k-u-r-r-ay-r-ay
ToFlow-Currere	kurrere	k-u-r-r-ay-r-ay
ToFreeze	gela:re	g-ay-l-A-r-ay
ToFreeze-Glaciare	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

Appendix 4 - Word Lists by Language

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
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 ^w i: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	fa-m-----	f-ah-m
Woman-Domina	dam---	d-ah-m
ManHumanBeing	-ɔm-----	euh-m
ManHumanBeing-Homo	-ɔ--	oon
Child	ã-fã----	NasalA-f-NasalA
Wife	e-pu-z-	ay-p-u-zz
Husband	maʁi---	m-ah-rr-e
Husband-Sponsus	e-pu----	ay-p-u
Mother	me-ʁ--	m-ay-rr

Appendix 4 - Word Lists by Language

Father	pe-ʁ-	p-ay-rr
Animal	o---ma-j	oh-m-ah-jg
Fish-Pescion	pwasō	p-w-ah-s-on
Bird-Avicellum	wa---z-o----	w-ah-zz-oh
Louse	p-u-----	p-u
Fruit	fʁʁi----	f-rr-eu-e
Flower	flœʁ--	f-l-OpenMidNearFrontRounded-rr
Nose	ne---	n-ay
Mouth	bu-ʃ-	b-u-shh
Sun-Soliculus	solej----	s-euh-l-eh_diphthong
Moon	lyn-	l-eeh-n
Star	e-twa-l-	ay-t-w-ah-l
Water	o----	oh
Rain	plʁ--i-	p-l-eu-e
Lake	lak--	l-ah-k
Sea	mœʁ-	m-eh-rr
Salt	sɛl--	s-eh-l
Earth	t-e-ʁ-	t-ay-rr
Fog-Nebula	nʝo---ly	n-jg-euh-l-eeh
Fog-Tenebras	t-en-ɛbʁ-	t-ay-n-eh-b-rr
Fog-Fumata	fyme--	f-eeh-m-ay
Sky	sjɛl--	s-jg-eh-l
Wind	v-ɑ-----	v-NasalA
Fire-Focus	f-ø---	f-uu
Year	ɑ-----	NasalA
Name-Nomen	nɔ---	n-oon
Tongue	lɑ-g--	l-NasalA-g
ToDrink	b--wak-	b-w-a-rr
ToEat-Manducare	mɑ-ʒ--e--	m-NasalA-gzah-ay
ToBite	m-oʁd-ʁ-	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-ne-tʁ-	k-euh-n-eh-t-rr
ToThink	kʁ--ide--	k-eu-e-d-ay
ToThink-Pensare	pɑ-se--	p-NasalA-s-ay
ToFear-Tremere	kʁɛ-d-ʁ-	k-rr-ehn-d-rr
ToSleep	d-ɔʁmiʁ-	d-euh-rr-m-e-rr
ToLive	viv-ʁ-	v-e-v-rr
ToDie	mʉʁiʁ-	m-u-rr-e-rr
ToKill	nwaje--	n-w-aj_diphthong-ay
ToKill-Tutari	t-ʉ-e--	t-eu-ay
ToKill-Mactare	ma-te--	m-ah-t-ay
ToKill-Occidere	ɔksi--ʁ-	euh-k-s-e-rr
ToFight-Battuere	bat--ʁ-	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--kʉʁte--	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	fɑ-d-ʁ-	f-NasalA-d-rr
ToSplit-Partire	paktiʁ-	p-ah-rr-t-e-rr
ToSplit-Separare	sə-v---ʁe	s-aah-v-rr-ay
ToStab	pwɛ-d-ʁ-	p-w-ehnn-d-rr
ToStab-Iugulare	ʒygyle--	gzah-eeh-g-eeh-l-ay
ToScratch-Rasare	ʁaze--	rr-a-zz-ay

Appendix 4 - Word Lists by Language

ToDig	fwik	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	maʁʃe	m-ah-rr-shh-ay
ToCome	vənik-	v-aah-n-e-rr
ToLieAsInABed	e-tā-d-ʁ-	ay-t-NasalA-d-rr
ToLieAsInABed-lacere	ʒe-zik-	gzah-ay-zz-e-rr
ToSit	swa--k-	s-w-ah-rr
ToStand	ε-t-ʁ-	eh-t-rr
ToStand-Levare	løve--	l-aah-v-ay
ToStand-Altiare	-o-s-e--	oh-s-ay
ToTurnIntransitive	tuʁne--	t-u-rr-n-ay
ToTurnIntransitive-Gyrare	ʒike--	gzah-e-rr-ay
ToTurnIntransitive-AncestralClass3	vike--	v-e-rr-ay
ToTurnIntransitive-Torquere	təʁd-ʁ-	t-euh-rr-d-rr
ToFall	ʃwa--k-	shh-w-ah-rr
ToFall-Tumbare	tõ-be-	t-on-b-ay
ToHold	tən-ik-	t-aah-n-e-rr
ToSqueeze	e--pʁε-d-ʁ-	ay-p-rr-ehnn-d-rr
ToSqueeze-Serare	se-ʁe--	s-ay-rr-ay
ToSqueeze-Stringere	e-tʁε-d-ʁ-	ay-t-rr-ehnn-d-rr
ToRub	fʁεje--	f-rr-eh_diphthong-ay
ToRub-Frictare	fʁote--	f-rr-oh-t-ay
ToWash	lave--	l-ah-v-ay
ToWipe-Exsucare	e-sqi-je--	ay-s-eu-e-jg-ay
ToPull	tike--	t-e-rr-ay
ToPull-Pulsare	pu-se--	p-u-s-ay
ToPull-Trahere	tʁ--εʁ-	t-rr-eh-rr
ToThrow	ʒə-te	gzah-aah-t-ay
ToThrow-Lanceare	lā-s-e-	l-NasalA-s-ay
ToTie	li-e--	l-e-ay
ToSew	ku-d---k-	k-u-d-rr
ToCount	kō---te--	k-on-t-ay
ToCount-Enumerare	enumeʁe--	ay-n-u-m-ay-rr-ay
ToSay	di--k-	d-e-rr
ToSing-AncestralClass	ʃā-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-ʁik-	k-u-rr-e-rr
ToFreeze	ʒəle--	gzah-aah-l-ay
ToFreeze-Glaciare	gla-s-e--	g-l-ah-s-ay
ToBurn-Brojan	bʁyle--	b-rr-eeh-l-ay
ToBurn-Cremare	kʁame--	k-rr-ah-m-ay
ToBurn-Flammare	flā-be--	f-l-NasalA-b-ay
ToBurn-Ardere	aʁd-ʁ-	ah-rr-d-rr
ToBurn-Flagrare	flagʁe--	f-l-ah-g-rr-ay
ToBurn-Incendere	ẽ-sā-dje--	ehnn-s-NasalA-d-jg-ay
All-Totus	tu----	t-u
Many	mu---	m-u
Some	o-kā-	oh-k-uuh
Few	pø---	p-uu
Other	o-t-ʁ-	oh-t-rr
Big-Grandem	gʁā---	g-rr-NasalA
Long-Longum	lō-----	l-oon

Appendix 4 - Word Lists by Language

Long-Largum	laʁʒ--	l-ah-rr-gzah
Wide	le---	l-ay
Wide-Amplum	ã-pl--	NasalA-p-l
Heavy	gʁav--	g-rr-ah-v
Heavy-Lurdus	luʁ---	l-u-rr
Heavy-Pesant	pəʒã---	p-aah-zz-NasalA
Small	pə-ti---	p-aah-t-e
Short	kuʁ---	k-u-rr
Short-Brevis	bʁɛf--	b-rr-eh-f
Narrow-Strictus	e-tʁwa-----	ay-t-rr-w-ah
Thin	məny----	m-aah-n-eeh
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	sɛ-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	nɔ-	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--ja	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
Father	paðre	p-ah-dd-er-ay
Father-Tata	tata	t-ah-t-ah
Animal	alimaɲ-a	ah-l-e-m-ah-VdPalatalNasal-ah
Fish-Piskem	peθ---	p-ay-th
Bird-Avem	abe-	ah-b-ay
Bird-Passerem	pa-xaro-	p-ah-xha-ah-er-oh

Appendix 4 - Word Lists by Language

Louse	pjo--x-o-	p-jg-oh-xha-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
Mouth	bo-ka	b-oh-k-ah
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
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-jo-	ah-VdPalatalNasal-oh
Name-Nominem	nom-bre-	n-oh-m-b-er-ay
Tongue	'lenggwa	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-par-	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

Appendix 4 - Word Lists by Language

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
ToTurnIntransitive-Gyrare	xirar-	xha-e-er-ah-er
ToTurnIntransitive-AncestralClass3	birar-	b-e-er-ah-er
ToTurnIntransitive-Torqueare	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	-elar-	ay-l-ah-er
ToBurn-Cremare	k-emar-	k-ay-m-ah-er
ToBurn-Flammare	fla-mear	f-l-ah-m-ay-ah-er

Appendix 4 - Word Lists by Language

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-ʃo-	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-jo-	m-ah-VdPalatalNasal-oh
Big-Grandem	grande-	g-er-ah-n-d-ay
Long-Longum	lo-ngo-	l-oh-n-j-oh
Long-Largum	lar-yo-	l-ah-er-juh-oh
Wide	lato-	l-ah-t-oh
Wide-Amplum	anʃ-o-	ah-n-ts-oh
Heavy	grabe-	g-er-ah-b-ay
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-ʃo-	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

Appendix 4 - Word Lists by Language

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
Father	pa:dre	p-A-d-r-ay
Father-Tata	tata	t-ah-t-ah
Animal-Bestia	biʎʎ-a	b-e-shh-shh-ah
Fish-Piskem	peʎʎe-	p-ay-shh-shh-ay
Bird-Avicellum	--u-tʃf-ɛllo-	u-t-ts-eh-l-l-oh
Bird-Passerem	passero-	p-ah-s-s-ay-r-oh
Louse	p-idɔkkjo-	p-e-d-euh-k-k-jg-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	nariʎe	n-ah-r-e-ts-ay
Mouth	bokka	b-oh-k-k-ah
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	tɛ:nebre	t-Eh-n-ay-b-r-ay
Fog-Tenebras	t-ɛ:n-ebre-	t-Eh-n-ay-b-r-ay
Fog-Fumata	fuma:ta	f-u-m-A-t-ah
Sky	'ʃf-elo-	ts-eh-l-oh
Wind	'v-ento-	v-eh-n-t-oh
Fire-Focus	fwɔko-	f-w-euh-k-oh
Year	anno-	ah-n-n-oh
Name-Nomen	no:me-	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-noʃʃere	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	utʃʃidere	u-t-ts-e-d-ay-er-ay

Appendix 4 - Word Lists by Language

ToFight	pun̩nare	p-u-VdPalatalNasal-VdPalatalNasal-ah-r-ay
ToFight-Battuere	batt-ere	b-ah-t-t-ay-r-ay
ToHunt-Captiare	kattʃ-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-ʌʌa:re	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	jugula:re	jg-u-j-u-l-A-r-ay
ToScratch	radere	r-ah-d-ay-r-ay
ToScratch-Rasare	rasare	r-ah-s-ah-r-ay
ToDig-Cavare	kavare	k-ah-v-ah-r-ay
ToDig-Excavare	--skavare	s-k-ah-v-ah-r-ay
ToSwim	nwotare	n-w-oh-t-ah-er-ay
ToSwim-Navigare	navigare	n-ah-v-e-g-ah-r-ay
ToFly	volare	v-oh-l-ah-er-ay
ToFly-Exvolare	zvolare	zz-v-oh-l-ah-er-ay
ToWalk	kamminare	k-ah-m-m-e-n-ah-er-ay
ToWalk-Mergere	merdʒere	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-ʃe: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	tɔɾʃere	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	--sprem-ere	s-p-r-eh-m-ay-r-ay
ToSqueeze-Serare	serrare	s-ay-r-r-ah-r-ay
ToSqueeze-Stringere	-strindʒere	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	terdʒere	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-Trahere	trar-re	t-r-ah-r-r-ay
ToPush	impindʒere	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	arrontʃare	ah-r-r-oh-n-ts-ah-r-ay
ToTie	legare	l-ay-g-ah-r-ay
ToSew	ku--ʃf-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

Appendix 4 - Word Lists by Language

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-Flutare	flutare	f-l-u-e-t-ah-r-ay
ToFlow	fluire	f-l-u-e-r-ay
ToFlow-Colare	kolare	k-oh-l-ah-r-ay
ToFlow-Excurrere	--skorrere	s-k-oh-r-r-ay-r-ay
ToFlow-Currere	korrere	k-oh-r-r-ay-r-ay
ToFreeze	dʒelare	VdPalatoAlveolarSibilant-ay-l-ah-r-ay
ToFreeze-Glaciare	gʒatʃʃare	g-jg-ah-t-ts-jg-ah-r-ay
ToBurn-Brojan	brutʃʃare	b-r-u-ts-ah-r-ay
ToBurn-Cremare	kremare	k-r-ay-m-ah-r-ay
ToBurn-Flammare	fjammare	f-jg-ah-m-m-ah-r-ay
ToBurn-Ardere	ardere	ah-r-d-ay-r-ay
ToBurn-Flagrare	flagrare	f-l-ah-g-r-ah-r-ay
ToBurn-Incendere	inʃʃendjare	e-n-ts-eh-n-d-jg-ah-r-ay
ToBurn-AncestralClass8	ustolare	u-s-t-oh-l-ah-r-ay
All	oʒni-	oh-VdPalatalNasal-VdPalatalNasal-e
All-Totus	tutto-	t-u-t-t-oh
Many	molto-	m-oh-l-t-oh
Many-Tantus	tanto-	t-ah-n-t-oh
Some	alkuno	ah-l-k-u-n-oh
Few	poko-	p-euh-k-oh
Other	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	greve-	g-r-eh-v-ay
Heavy-Lurdus	lordo-	l-oh-r-d-oh
Heavy-Pesant	pesante	p-ay-s-ah-n-t-ay
Small-Pittinus	pitʃino-	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	breve-	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	vermiʃ-ʃo-	v-ay-r-m-e-yuh-yuh-oh
Red-Rubeus	robbjo-	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	'ʃiŋkwe	ts-e-nya-k-w-ay
Here	---kw--i-	k-w-e
There	--la-	l-ah
There-Ibi	-vi	v-e

Appendix 4 - Word Lists by Language

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	noʃ-s	n-euh-jg-s
YouPlural	vɔjs	v-euh-jg-s
YouSingular	tu	t-u
YouSingular-VostramMercedem	vos-e-	v-oh-s-ay
Woman	fe-me---ɐ	f-ay-m-ay-ahh
Woman-Mulier	muʎ-eɣ--	m-u-yuh-ay-rr
Woman-Domina	do--nɐ	d-oh-n-ahh
ManHumanBeing	omẽj---	oh-m-nasal_diphthong_portuguese1
Child	ĩ-fẽ-ʎi-	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	muʎ-eɣ-	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
Father	paj---	p-aj_diphthong
Father-Tata	tata	t-ah-t-ah
Animal-Bestia	bi-ʃ-ɐ	b-e-shh-ahh
Fish-Piskem	pejʃ-i-	p-ej_diphthong-shh-e
Bird-Avem	avi-	ah-v-e
Bird-Passerem	pa-seɾu-	p-ah-s-ahh-er-u
Louse	p-i-o-ʎu-	p-e-oh-yuh-u
Fruit	fru--tɐ-	f-er-u-t-ahh
Flower	floɣ--	f-l-oh-rr
Nose-Nares	naris-	n-ah-er-e-s
Mouth	bo-kɐ	b-oh-k-ahh
Sun	sɔw--	s-euh-w
Moon	lu-ɐ	l-u-ahh
Star	istre-lɐ	e-s-t-er-ay-l-ahh
Water	'a-gwɐ	ah-g-w-ahh
Rain	ʃ-u-v-ɐ	shh-u-v-ahh
Lake	lagu-	l-ah-g-u
Sea	maɣ-	m-ah-rr
Salt	saw--	s-ah-w
Earth	't-e-ɣɐ	t-ay-rr-ahh
Fog	kalizẽj---	k-ah-l-e-gzah-nasal_diphthong_portuguese1
Fog-Nebula	n-ɛ-vw-ɐ	n-eh-v-w-ahh
Fog-Fumata	fumaseɐ	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	ɐ-nu-	ahh-n-u
Name-Nomen	nomi-	n-oh-m-e
Tongue	'li-gwɐ	l-ee-n-g-w-ahh

Appendix 4 - Word Lists by Language

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	sugak-	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-sak-	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	vivek-	v-e-v-ay-rr
ToDie	moɤek-	m-oh-rr-ay-rr
ToKill-Mactare	ma-tak-	m-ah-t-ah-rr
ToFight-Battuere	ba-t-ek-	b-ah-t-ay-rr
ToHunt-Captiare	ka-s-ak-	k-ah-s-ah-rr
ToHit	pu-ʃak-	p-u-shh-ah-rr
ToCut	s-egak-	s-ay-g-ah-rr
ToCut-Curtare	koɤtak-	k-oh-rr-t-ah-rr
ToCut-Taliare	ta-ʁ-ak-	t-ah-yuh-ah-rr
ToSplit	dʒividʒiɤ-	VdPalatoAlveolarSibilant-e-v-e-VdPalatoAlveolarSibilant-e-rr
ToSplit-Findere	fẽ-dek-	f-ehn-d-ay-rr
ToSplit-Partire	paɤʃiɤ-	p-ah-rr-ts-e-rr
ToSplit-Separare	separaɤ-	s-ay-p-ah-er-ah-rr
ToStab	p-ũ-ʒiɤ-	p-ooo-gzah-e-rr
ToScratch	ka-ek-	rr-ah-ay-rr
ToScratch-Rasare	kaɤak-	rr-ah-zz-ah-rr
ToScratch-Rasicare	kaʃkaɤ	rr-ah-shh-k-ah-rr
ToScratch-Coctiare	kosaɥ	k-oh-s-ah-VdRetroflexApproximant
ToDig-Cavare	kevaɤ	k-ahh-v-ah-rr
ToDig-Excavare	i-ʃkevaɤ-	e-shh-k-ahh-v-ah-rr
ToSwim	n-adaɤ-	n-ah-d-ah-rr
ToSwim-Navigare	naviɥaɤ-	n-ah-v-eee-juh-ah-rr
ToFly	vo-ak-	v-oh-ah-rr
ToWalk	kemiɲaɤ-	k-ahh-m-e-VdPalatalNasal-ah-rr
ToWalk-Ambitare	ẽ-d--ak-	ahn-d-ah-rr
ToCome	v--iɤ-	v-e-rr
ToLieAsInABed	istẽ-dek-	e-s-t-ehn-d-ay-rr
ToLieAsInABed-lacere	ʒɐ-zek-	gzah-ahh-zz-ay-rr
ToSit	s-e--k-	s-ay-rr
ToSit-Sedentare	sẽ---taɤ-	s-ehn-t-ah-er
ToStand	ɨʃtaɤ-	eee-shh-t-ah-er
ToStand-Levare	levaɤ-	l-ay-v-ah-rr
ToStand-Altiare	-aʃs-a--	ah-ssha-s-ah
ToTurnIntransitive	toɤnaɤ-	t-oh-rr-n-ah-rr
ToTurnIntransitive-Gyrate	ʒiraɤ-	gzah-e-er-ah-er
ToTurnIntransitive-AncestralClass3	virar-	v-e-er-ah-er
ToTurnIntransitive-Torque	turser-	t-u-r-s-ay-r
ToFall	k-ɐ-ir-	k-ahh-e-er
ToFall-Tumbare	tõ-baɤ	t-on-b-ah-rr
ToHold	te---k-	t-ay-rr
ToHold-Segurar	siguraɤ	s-eee-g-u-er-ah-rr
ToSqueeze	i-ʃpɹəm-ek-	e-shh-p-r-aah-m-ay-rr
ToSqueeze-Serrere	se-ka--	s-ay-rr-ah

Appendix 4 - Word Lists by Language

ToSqueeze-Serare	si-ɣar-	s-eee-rr-ah-er
ToSqueeze-Appetore	ɐ-pi-r-tar-	ahh-p-eee-er-t-ah-er
ToSqueeze-Stringere	ɔʃtrĩ-zir-	aah-shh-t-r-een-gzah-e-r
ToRub-Exfricare	ɨʃfrigar	eee-shh-f-er-eee-g-ah-er
ToWash	lɐvar-	l-ahh-v-ah-er
ToWipe-Exsucare	ẽ-f-ug-ar-	ehn-shh-u-g-ah-er
ToWipe-Limpidare	li-p--ar-	l-een-p-ah-er
ToPull	ʃira--	ts-e-er-ah
ToPull-Pulsare	pu-ʃar-	p-u-shh-ah-er
ToPull-Trahere	traze--	t-er-ah-zz-ay
ToThrow	zejtar	gzah-ej_diphthong-t-ah-er
ToThrow-Lanceare	lɐ-s-a--	l-ahn-s-ah
ToTie-Aptare	ɐ-tar-	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-tar-	k-ahn-t-ah-er
ToPlay-Jiocare	ʒo-gaɣ-	gzah-oh-g-ah-rr
ToFloat	flu-tuaɣ-	f-l-u-t-u-ah-rr
ToFlow	flwig-	f-l-w-e-rr
ToFlow-Colare	ko-aɣ-	k-oh-ah-rr
ToFlow-Excurrere	i-ʃko-ɣɛɣ-	e-shh-k-oh-rr-ay-rr
ToFlow-Currere	ko-ɣɛɣ-	k-oh-rr-ay-rr
ToFreeze	ʒilar-	gzah-eee-l-ah-er
ToBurn-Cremare	k-ɐjmare	k-diphthong_portuguese-m-ah-er-ay
ToBurn-Ardere	aɣɛɣ-	ah-rr-d-ay-rr
ToBurn-Flagrare	flagɣaɣ-	f-l-ah-j-rr-ah-rr
ToBurn-Incendere	ĩ-sendɣiar-	een-s-ay-n-VdPalatoAlveolarSibilant-NearCloseFrontUnrounded-ah-er
All-Totus	to-du-	t-oh-d-u
Many	mũj̃-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-dʒi-	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	kuktu-	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-ʃi-w--	s-u-ts-e-w
Red-Russus	ɣo-ʃo-	rr-oh-shh-NearCloseBackRounded
Red-Vermiculus	veɣme--ɣu-	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

Appendix 4 - Word Lists by Language

Two-Duos	d-ojs	d-oj_diphthong-s
Two-Duas	dues	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-ẽj--	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	nẽj	n-nasal_diphthong_portuguese1
And-Et	i-	e

Portuguese

Cognate	IPA	Sounds
I	-e-w	ay-w
We	no-f	n-euh-shh
YouPlural	vo-f	v-oh-shh
YouSingular	tu	t-u
YouSingular-VostramMercedem	vɔs-e-	v-euh-s-ay
Woman	'fe-mj---e	f-ay-m-jg-ahh
Woman-Mulier	muʎ-er--	m-u-yuh-ay-er
Woman-Domina	do--nẽ	d-oh-n-ahh
ManHumanBeing	ɔmẽj---	euh-m-nasal_diphthong_portuguese1
Child	ĩ-fe-ti-	een-f-ahn-t-eee
Child-Ninnus	nenẽj	n-ay-n-nasal_diphthong_portuguese1
Wife	ifpo-zẽ	eee-shh-p-oh-zz-ahh
Wife-Mulier	muʎ-er-	m-u-yuh-ay-er
Husband	mẽriðu-	m-ahh-er-e-dd-u
Husband-Sponsus	ifpo-zu-	eee-shh-p-oh-zz-u
Mother	mẽj----	m-nasal_diphthong_portuguese2
Father	paj---	p-aj_diphthong
Father-Tata	tata	t-ah-t-ah
Animal-Bestia	bi-f-e	b-e-shh-ahh
Fish-Piskem	pẽif-i-	p-diphthong_portuguese-shh-eee
Bird-Avem	avi-	ah-v-eee
Bird-Passerem	pa-sẽru-	p-ah-s-ahh-er-u
Louse	p-i-o-ʎu-	p-e-oh-yuh-u
Fruit	fru--tẽ-	f-er-u-t-ahh
Flower	flor--	f-l-oh-er
Nose-Nares	nẽrif-	n-ahh-er-e-shh
Mouth	bo-kẽ	b-oh-k-ahh
Sun	sɔt--	s-euh-ssha
Moon	lu-e	l-u-ahh
Star	iftre-le	eee-shh-t-er-ay-l-ahh
Water	'a-gwẽ	ah-g-w-ahh
Rain	f-u-v-e	shh-u-v-ahh
Lake	layu-	l-ah-juh-u
Sea	mar-	m-ah-er
Salt	sal--	s-ah-l
Earth	't-e-ɣẽ	t-eh-rr-ahh
Fog	kẽlizẽj---	k-ahh-l-e-gzah-nasal_diphthong_portuguese2

Appendix 4 - Word Lists by Language

Fog-Nebula	n-ε-vw-ε	n-eh-v-w-ahh
Fog-Tenebras	tr--εv-εf	t-er-eh-v-ahh-shh
Fog-Fumata	fumasε	f-u-m-ah-s-ahh
Sky	s-εw--	s-eh-w
Wind	'v-ē-tu-	v-ehn-t-u
Fire-Focus	f-oyu-	f-oh-juh-u
Year	ε-nu-	ahh-n-u
Name-Nomen	nomi-	n-oh-m-eee
Tongue	'lī-gwε	l-eeen-g-w-ahh
ToDrink	biß-er-	b-eee-bb-ay-er
ToEat	kum--er-	k-u-m-ay-er
ToEat-Manducare	mε-ζ--ar-	m-ahn-gzah-ah-er
ToBite	m-urðer-	m-u-er-dd-ay-er
ToBite-Morsicare	mu-səgar-	m-u-s-aah-g-ah-r
ToSuck	sugar-	s-u-g-ah-er
ToSpit	ku-ʃpir	k-u-shh-p-e-er
ToKnow-Sapere	sεb-er-	s-ahh-b-ay-er
ToKnow-Cognoscere	ku-ɲis-er-	k-u-VdPalatalNasal-eee-s-ay-er
ToThink	k-uʒitar-	k-u-gzah-e-t-ah-er
ToThink-Pensare	pē-sar-	p-ehn-s-ah-er
ToFear	timer-	t-eee-m-ay-er
ToFear-Tremere	trim-er-	t-er-eee-m-ay-er
ToSleep	d-urmir-	d-u-er-m-e-er
ToLive	viver-	v-e-v-ay-er
ToDie	muker-	m-u-rr-ay-er
ToKill-Mactare	mε-tar-	m-ahh-t-ah-er
ToFight-Battuere	bε-t-er-	b-ahh-t-ay-er
ToHunt-Captiare	kε-s-ar-	k-ahh-s-ah-er
ToHit	pu-ʃar-	p-u-shh-ah-er
ToCut	s-iyar-	s-eee-juh-ah-er
ToCut-Curtare	kurtar-	k-u-er-t-ah-er
ToCut-Taliare	tε-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	pertir-	p-ahh-er-t-e-er
ToSplit-Separare	siperar-	s-eee-p-ahh-er-ah-er
ToStab	p-ũ-ʒir-	p-ooo-gzah-e-er
ToScratch	kε-er-	rr-ahh-ay-er
ToScratch-Rasare	kεzar-	rr-ahh-zz-ah-er
ToScratch-Rasicare	kεʃkar	rr-ahh-shh-k-ah-er
ToScratch-Coctiare	kusar	k-u-s-ah-er
ToDig-Cavare	kεvar	k-ahh-v-ah-er
ToDig-Excavare	i-ʃkεvar-	e-shh-k-ahh-v-ah-er
ToSwim	n-εðar-	n-ahh-dd-ah-er
ToSwim-Navigare	nεviyar-	n-ahh-v-eee-juh-ah-er
ToFly	vw-ar-	v-w-ah-er
ToWalk	kemɲar-	k-ahh-m-e-VdPalatalNasal-ah-er
ToWalk-Ambitare	ē-d--ar-	ahn-d-ah-er
ToCome	v--ir-	v-e-er
ToLieAsInABed	iftē-der-	e-shh-t-ehn-d-ay-er
ToLieAsInABed-lacere	ʒε-zer-	gzah-ahh-zz-ay-er
ToSit	s-e--r-	s-ay-er
ToSit-Sedentare	sē---tar-	s-ehn-t-ah-er
ToStand	iftar-	eee-shh-t-ah-er
ToStand-Levare	livar-	l-eee-v-ah-er
ToStand-Altiare	-als-ar-	ah-ssha-s-ah-er
ToTurnIntransitive	turnar-	t-u-er-n-ah-er

Appendix 4 - Word Lists by Language

ToTurnIntransitive-Gyrare	zír-ar-	gzah-e-er-ah-er
ToTurnIntransitive-AncestralClass3	zír-ar-	gzah-e-er-ah-er
ToTurnIntransitive-Torquere	túrser-	t-u-r-s-ay-r
ToFall	k-è-ir-	k-ahh-e-er
ToFall-Tumbare	tõ-bar	t-on-b-ah-er
ToHold	te---r-	t-ay-er
ToHold-Segurar	siyurar	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-ɣar-	s-eee-rr-ah-er
ToSqueeze-Appetorare	ɐ-pi-r-tar-	ahh-p-eee-er-t-ah-er
ToSqueeze-Stringere	əʃtrĩzír-	aah-shh-t-r-een-gzah-e-r
ToRub-Exfricare	ĩffríyar	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-een-p-ah-er
ToPull	tír-ar-	t-e-er-ah-er
ToPull-Pulsare	pu-ʃar-	p-u-shh-ah-er
ToPull-Trahere	trɛzer-	t-er-ahh-zz-ay-er
ToThrow	zejtar	gzah-ej_diphthong-t-ah-er
ToThrow-Lanceare	lɐ-s-ar-	l-ahn-s-ah-er
ToTie-Aptare	ɐ-tar-	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-tar-	k-ahn-t-ah-er
ToPlay-Jiocare	zu-ɣar-	gzah-u-juh-ah-er
ToFloat	flu-tuar-	f-l-u-t-u-ah-er
ToFlow	flwír-	f-l-w-e-er
ToFlow-Colare	ku-ar-	k-u-ah-er
ToFlow-Excurrere	i-ʃku-rer-	e-shh-k-u-VIUvularTrill-ay-er
ToFlow-Currere	ku-ker-	k-u-rr-ay-er
ToFreeze	zilar-	gzah-eee-l-ah-er
ToBurn-Cremare	k-ejmake	k-ej_diphthong-m-ah-rr-ay
ToBurn-Ardere	ɐrder-	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	atgũ--	ah-ssha-g-ooo
Few	powku	p-oh-w-k-u
Other	owt-ru	oh-w-t-er-u
Other-Alius	at---	ah-ssha
Big-Grandem	grẽ-di-	g-er-ahn-d-eee
Long-Longum	lõ-gu-	l-on-g-u
Long-Largum	lardu-	l-ah-er-g-u
Wide	latu-	l-ah-t-u
Wide-Amplum	ẽ-f-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	'brevis-	b-er-eh-v-eee
Narrow-Strictus	ĩʃtr-ɛj--tu-	eee-shh-t-er-diphthong_portuguese-t-u

Appendix 4 - Word Lists by Language

Thin	mi-u-ðu-	m-e-u-dd-u
Thin-Delicatus	deɫ-ɣaðu-	d-eh-ssha-juh-ah-dd-u
Thin-Subtilis	su-ʃɪw--	s-u-ts-e-w
Red-Russus	ʁo-ʃu-	rr-oh-shh-u
Red-Vermiculus	viɾmɛj--ʎu-	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-ojɸ	d-oj_diphthong-shh
Two-Duas	duɐɸ	d-u-ahh-shh
Three	tr-eɸ	t-er-ay-shh
Four	kwa-t--ru	k-w-ah-t-er-u
Five	'sĩ-k-u	s-een-k-u
Here	-ɐ-k---i-	ahh-k-e
There	--la-	l-ah
There-Adlbi	ɐi	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	komu--	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
YouSingular-VostramMercedem	voste-	v-oh-s-t-ay
Woman	fe-m-br-a	f-ay-m-b-er-ah
Woman-Mulier	muɫ-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	muɫ-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
Father	pə-rə	p-ah-er-aah
Fish-Piskem	pɛɸ---	p-ay-shh
Bird-Avem	aw--	ah-w
Bird-Avicellum	--u--s-e-ɰ--	u-s-ay-yuh
Louse	p-o---ɰ--	p-oh-yuh
Fruit	fruɟ-t--	f-er-u-jg-t
Flower	flɔ---	f-l-euh
Nose	nas	n-ah-s
Nose-Nares	na:ɾis-	n-A-r-NearCloseFrontUnrounded-s
Mouth	bo-kə	b-oh-k-aah
Sun	səl--	s-euh-l
Moon	ɰunə	yuh-u-n-aah
Star	əst-ɛ-l-	aah-s-t-eh-l
Water	'aj-ɣwə	aj_diphthong-juh-w-aah
Rain	plu-ʒ-ə	p-l-u-gzah-aah

Appendix 4 - Word Lists by Language

Lake	ʎak--	yuh-ah-k
Sea	mar-	m-ah-r
Salt	sal--	s-ah-l
Earth	't-ε-rə	t-eh-r-aah
Fog-Nebula	n-e--wlə	n-ay-w-l-aah
Fog-Tenebras	t-ən-εbrəs	t-aah-n-ay-b-er-aah-s
Sky	s-εl--	s-eh-l
Wind	b-en---	b-ay-n
Fire-Focus	f-ək--	f-euh-k
Year	a-ɲ--	ah-VdPalatalNasal
Name-Nomen	nəm--	n-euh-m
ToDrink	bɛw--rə	b-eh-w-er-aah
ToEat-Manducare	məɲʒ--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-ε--	s-aah-bb-eh
ToKnow-Cognoscere	ku-nεʃ-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-ʎ-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
ToSplit-Separare	səpəra--	s-aah-p-aah-er-ah
ToStab	p-uɲ-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	ʎəba--	yuh-aah-b-ah
ToStand-Altiare	-əls-a--	aah-l-s-ah
ToTurnIntransitive	turna-	t-u-r-n-ah
ToTurnIntransitive-Gyrare	ʒira--	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

Appendix 4 - Word Lists by Language

ToSqueeze	ə-sprem-ə--	aah-s-p-er-ay-m-aah
ToSqueeze-Serrere	sə-ra--	s-aah-r-ah
ToSqueeze-Stringere	əstreŋə	aah-s-t-er-eh-VdPalatalNasal-aah
ToRub	frəga--	f-er-aah-g-ah
ToRub-Frictiare	frəsa-	f-er-aah-s-ah
ToWash	ʎəba--	yuh-aah-b-ah
ToWipe-Extergere	ə-stərzi--	aah-s-t-aah-r-gzah-e
ToWipe-Exsucare	ə-ʃ-uga--	aah-shh-u-g-ah
ToPull	tira--	t-e-er-ah
ToPull-Trahere	trɛw-rə	t-er-eh-w-er-aah
ToPush	əmpeŋ-ə--	aah-m-p-eh-VdPalatalNasal-aah
ToThrow	xita	xha-e-t-ah
ToThrow-Lanceare	ʎəns-a--	yuh-aah-n-s-ah
ToTie	ʎiya--	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	əlgu--	aah-l-g-u
Few	pək--	p-euh-k
Other	alt-rə	ah-l-t-er-aah
Big-Grandem	gran---	j-r-ah-n
Long-Longum	ʎo-ŋ---	yuh-oh-nya
Long-Largum	ʎark--	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--ʎ--	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

Appendix 4 - Word Lists by Language

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-fɑ̃----	eh-f-NasalA
Mother	mɛ-r--	m-ay-VIUvularTrill
Father	pɛ:-r-	p-Eh-r
Fish-Pescion	p-ɛhð	p-eh-h-on
Bird-Avicellum	--u:-h-ɛ:----	U-h-Eh
Louse	pju-----	p-jg-u
Fruit	fry-----	f-VIUvularTrill-eeh
Flower	flø:ʁ--	f-l-o-rr
Nose	ne---	n-ay
Mouth	bɔk--	b-euh-k
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
Lake	lak--	l-ah-k
Sea	mɛʁ-	m-ay-rr
Salt	se---	s-ay
Earth	t-ɛ:-ʁ-	t-Eh-rr
Sky	s-i:ʁ--	s-E-rr
Wind	v-ẽ-----	v-ehn
Fire-Focus	f-ø:---	f-o
Year	ã----	NasalA
Name-Nomen	nɔ̃---	n-on
Tongue	lœu-----	l-eu_nasalized_diphthong
ToDrink	b---ø:ʁ-	b-o-rr
ToEat-Manducare	map---i:--	m-ah-VdPalatalNasal-E
ToSuck	sysi:--	s-eeh-s-E
ToKnow-Sapere	sav-ø:ʁ-	s-ah-v-o-VIUvularTrill
ToKnow-Cognoscere	ki-nəh----	k-e-n-euh-h
ToThink-Pensare	pẽ-se--	p-ehnn-s-ay
ToSleep	dwaʁmi--	d-w-ah-rr-m-e
ToDie	mɔri--	m-euh-VIUvularTrill-e
ToKill-Tutari	tuw-e--	t-u-w-ay
ToFight-Battuere	bat-e--	b-ah-t-ay

Appendix 4 - Word Lists by Language

ToHunt-Captiare	ʃe-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	ɕa:v-le	sh-aay-v-l-ay
ToSwim-Navigare	nɛ--dʒi:--	n-eh-VdPalatoAlveolarSibilant-E
ToFly	vɔle--	v-euh-l-ay
ToWalk	ʃiminc--	ts-e-m-e-n-ay
ToWalk-Marcher	ma:Rʃi:	m-A-VIUvularTrill-ts-E
ToCome	vini--	v-e-n-e
ToLieAsInABed-lacere	dʒɛ--re	VdPalatoAlveolarSibilant-ay-r-ay
ToStand	ɛs----	eh-s
ToStand-Levare	lɔve--	l-aah-v-ay
ToStand-Altiare	hɔ:-s-i:	h-LongOpenMidBackRounded-s-E
ToTurnIntransitive	tu:rne-	t-U-r-n-ay
ToTurnIntransitive-AncestralClass3	vike--	v-e-rr-ay
ToFall	ʃ-ɛ:--R-	ts-Eh-VIUvularTrill
ToFall-Tumbare	tum-e-	t-u-m-ay
ToHold	tin-i--	t-e-n-e
ToSqueeze-Serare	sɛ-re--	s-eh-VIUvularTrill-ay
ToSqueeze-Stringere	stringe	s-t-r-e-n-j-ay
ToRub	froj----	f-r-ɔj_diphthong
ToRub-Frictare	fɔte--	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:--ʁ	d-E-rr
ToSing-AncestralClass	ʃũ-te--	ts-NasalA-t-ay
ToPlay-Jiocare	dʒuw-e--	VdPalatoAlveolarSibilant-u-w-ay
ToFlow-Colare	kɔle--	k-euh-l-ay
ToFreeze	dʒale--	VdPalatoAlveolarSibilant-ah-l-ay
ToBurn-Brojan	bɕu:le--	b-rr-U-l-ay
All-Totus	tɔ----	t-euh
Few	põ---	p-on
Other	õ-t---	on-t
Big-Grandem	gɕũ---	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	bɕɛf--	b-rr-ay-f
Narrow-Strictus	-stɕ-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	sẽ-k--	s-ehn-k

Appendix 4 - Word Lists by Language

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	kɔmẽ--	k-euh-m-ehnn
Not-Nec	nẽ-	n-ehn
And-Et	ε-	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-eh-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
Father	pa-ri	p-ah-r-e
Animal	nema:l--	n-ay-m-A-l
Animal-Bestia	bis---	b-e-s
Fish-Piskem	pɛs---	p-eh-s
Bird-Avicellum	--u--ʃjɛ-l--	u-ts-jg-eh-l
Louse	p-edo-li-	p-ay-d-oh-l-e
Fruit	fru--t--	f-r-u-t
Flower	flo:r--	f-l-O-r
Nose	na:s--	n-A-s
Mouth	bɔ--ce	b-euh-tya-eh
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
Earth	tjɛ-re	t-jg-eh-r-ay
Fog-Fumata	fumate	f-u-m-ah-t-ay
Sky	ʃi: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	manʃ--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-ɲos-i--	k-oh-VdPalatalNasal-oh-s-e

Appendix 4 - Word Lists by Language

ToThink-Pensare	penja:--	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	maŋf-a:--	m-ah-ts-A
ToFight-Battuere	bat-i:--	b-ah-t-e
ToHunt-Captiare	ca-ŋf-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	viŋi:--	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	-altf-a:	ah-l-t-shh-A
ToTurnIntransitive	torna:--	t-oh-r-n-A
ToTurnIntransitive-Gyrate	dʒira:--	VdPalatoAlveolarSibilant-e-r-A
ToTurnIntransitive-AncestralClass3	dʒira:--	VdPalatoAlveolarSibilant-e-r-A
ToFall	ŋjade:--	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-ch-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
ToPull-Trahere	traj:--	t-r-aj_diphthong
ToThrow-Lanceare	lanŋa:--	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-ŋf-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

Appendix 4 - Word Lists by Language

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-ε--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	rɔ-s--	r-euh-s
Green	ver-t--	v-eh-r-t
One	uŋ--	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	sɔts---	s-oh-VIAlveolarSibilantAffricate
Father-Tata	tatə	t-ah-t-aah
Animal	-nəma-je	n-aah-m-ah-jg-ay
Fish-Piskem	peʃte-	p-ay-shh-t-ay
Bird-Passerem	pa-səre-	p-ah-s-aah-er-ay
Louse	p-əduk-je-	p-aah-d-u-k-jg-ay
Fruit	fru-kt--	f-r-u-k-t
Flower	floare-	f-l-midback_diphthong_romanian-er-ay
Nose	nas--	n-ah-s
Mouth	bu-kə	b-u-k-aah
Mouth-Gula	'gurə	j-u-er-aah
Sun	sɔare-	s-midback_diphthong_romanian-er-ay
Moon	lunə	l-u-n-aah
Star	-st-ɛa---	s-t-midfront_diphthong_romanian
Water	a-p-ə	ah-p-aah
Rain	ploa--je	p-l-midback_diphthong_romanian-jg-ay

Appendix 4 - Word Lists by Language

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	negurə	n-ay-g-u-r-aah
Fog-Caecia	ʃeaf-ə	ts-midfront_diphthong_romanian-ts-aah
Sky	ʃ-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	sudʒe--	s-u-VdPalatoAlveolarSibilant-ay
ToSpit-Exconspuere	-skujpa	s-k-u-jg-p-ah
ToKnow	ʃti--	shh-t-e
ToKnow-Cognoscere	ku-noaʃte--	k-u-n-midback_diphthong_romanian-shh-t-ay
ToThink	k-udʒeta--	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-ʃfide--	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	pundʒe--	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	merdʒe--	m-ay-r-VdPalatoAlveolarSibilant-ay
ToCome	veni--	v-ay-n-e
ToLieAsInABed	ekstinde--	ay-k-s-t-e-n-d-ay
ToLieAsInABed-lacere	zə-ʃeə--	zz-aah-ts-midfront_diphthong_romanian
ToSit	ʃ-e-deə--	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	toarʃe--	t-midback_diphthong_romanian-r-ts-ay
ToFall	kədeə--	k-aah-d-midfront_diphthong_romanian
ToHold	tsin-e--	VlAlveolarSibilantAffricate-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

Appendix 4 - Word Lists by Language

ToThrow-Eruncare	a-run _{ka}	ah-er-u-nya-k-ah
ToTie	lega--	l-ay-j-ah
ToSew	co ₂ --s-e--	tya-midback_diphthong_romanian-s-ay
ToCount-Enumerare	-numara--	n-u-m-ah-r-ah
ToSay	zi _ŋ e	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	--skurd ₃ e--	s-k-u-er-VdPalatoAlveolarSibilant-ay
ToFlow-Currere	kurd ₃ e--	k-u-er-VdPalatoAlveolarSibilant-ay
ToFreeze-Inglaciare	ing-ets-a--	eee-n-j-ay-VlAlveolarSibilantAffricate-ah
ToBurn-Ardere	arde--	ah-er-d-ay
ToBurn-Incendere	in _ŋ ind ₃ e--	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-VlAlveolarSibilantAffricate-e-n
Narrow	ingust--	eee-nya-j-u-s-t
Narrow-Strictus	-str-im-t--	s-t-r-eee-m-t
Thin	m _ə run _t --	m-aah-r-u-n-t
Thin-Subtilis	subtsire-	s-u-b-VlAlveolarSibilantAffricate-e-r-ay
Red-Russus	ro- _ŋ u-	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	ŋin _ŋ --	ts-e-n-ts
There	--la-	l-ah
Who-Quem	ŋ-ine	ts-e-n-ay
What	ŋ-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	ŋi-	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

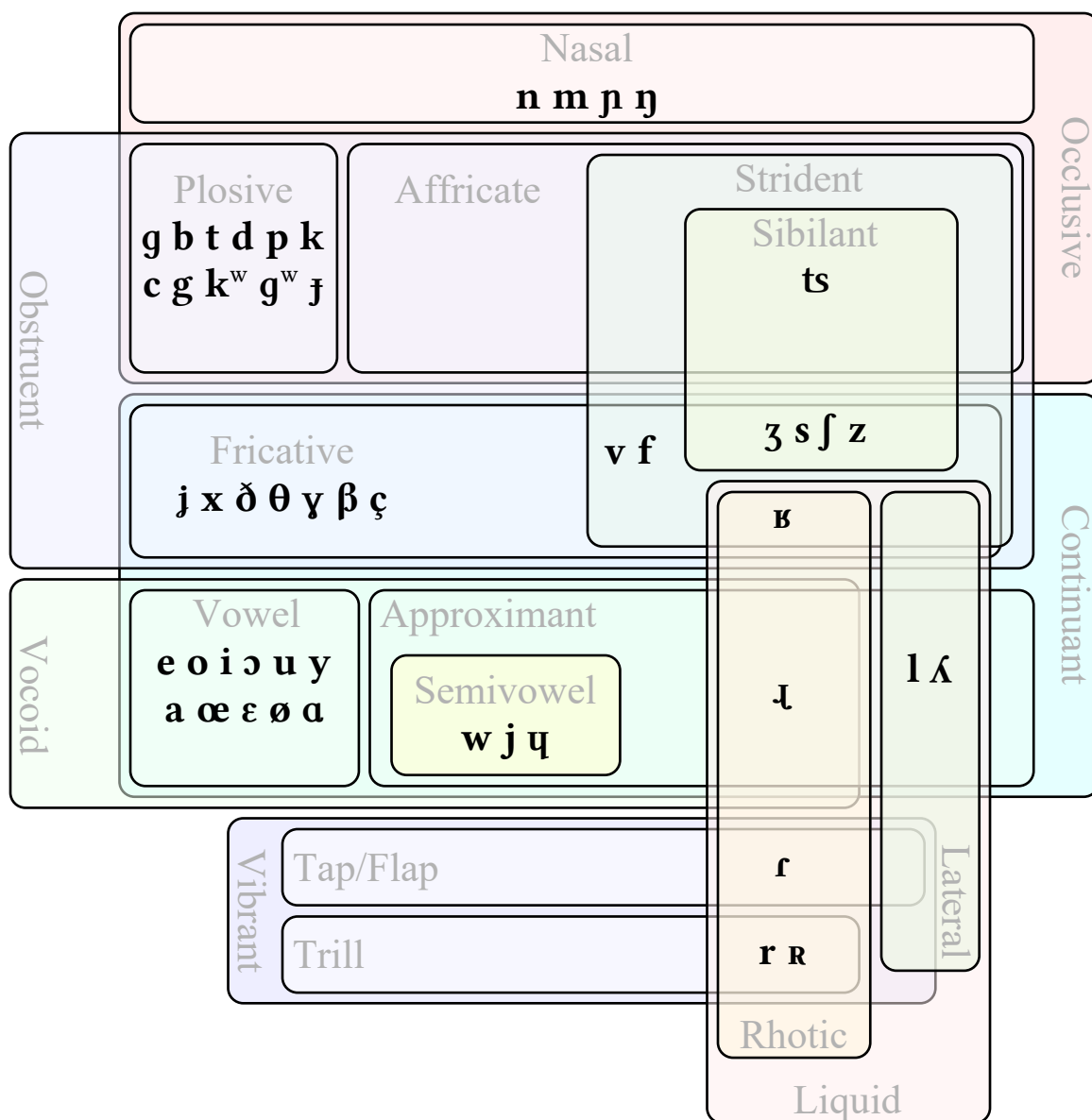
Other Segments

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	aː Open Central Vowel Long Vowel Continuant
ẽj Mid Front Nasal Vowel Diphthong	ʀ Uvular Pulmonic Trill Rhotic Vibrant Liquid
aj Mid Front Vowel Diphthong	ɛː Open-mid Near-Front Vowel Long Vowel Continuant
θ Dental Pulmonic Fricative Obstruent Continuant	ej Mid Front Vowel Diphthong
ej Mid Front Vowel Diphthong	õ Close-mid Back Rounded Nasal Vowel
ɥ Labial-Palatal Vowel Semivowel Voiced Approximant Continuant	øː Open Front Rounded Vowel Long Vowel
c Palatal Pulmonic Stop Occlusive	g Velar Voiced Pulmonic Stop Occlusive
ɭ Alveolar Voiced Velarized Pulmonic Lateral Approximant	ɛj Mid Front Vowel Diphthong
ø Close-mid Front Rounded Vowel Vowel Continuant	e [˘] Mid Front Vowel Diphthong
k Labial-Velar Pulmonic Stop Occlusive	ɣ Velar Voiced Pulmonic Fricative Obstruent Continuant
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	ẽ Open-mid Near-Front Nasal Vowel
ɔː Open-mid Back Rounded Vowel Long Vowel Continuant	ũ Open Back Nasal Vowel
ɻ Retroflex Vowel Voiced Pulmonic Approximant Rhotic Liquid	ç Palatal Pulmonic Fricative Obstruent Continuant
ɑː Open Back Long Vowel	ĩ 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	ʈʃ
1EBD Close Back Nasal Vowel	03B8 Dental Pulmonic Fricative Obstruent Continuant	03B2 Bilabial Voiced Pulmonic Fricative Obstruent Continuant	02A7 Palato-Alveolar Pulmonic Sibilant Affricate
ts	ɖʒ	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	ɭ	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
ʎ	ɡ	ʝ	ɛ
0263 Velar Voiced Pulmonic Fricative Obstruent Continuant	0261 Velar Voiced Pulmonic Stop Occlusive	025F Palatal Voiced Pulmonic Stop Occlusive	025B Open-mid Near-Front Vocoid Vowel Continuant
ə	ɔ	ɑ	ɐ
0259 Close-mid Central Vowel	0254 Open-mid Back Rounded Vocoid Vowel Continuant	0251 Open Back Vocoid Vowel Continuant	0250 Near-open Central Rounded Vowel

Appendix 7 - International Phonetic Alphabet

ũ	œ	ŋ	ĩ
0169 Open Back Nasal Vowel	0153 Open-mid Near-Front Rounded Vocoid Vowel Continuant	014B Velar Voiced Pulmonic Nasal Occlusive	0129 Close Front Nasal Vowel
ø	õ	ð	ç
00F8 Close-mid Front Rounded Vocoid Vowel Continuant	00F5 Close-mid Back Rounded Nasal Vowel	00F0 Dental Voiced Pulmonic Fricative Obstruent Continuant	00E7 Palatal Pulmonic Fricative Obstruent Continuant
ʒ	y	x	w
007A Alveolar Voiced Pulmonic Sibilant Fricative Strident Obstruent Continuant	0079 Close Front Rounded Vocoid Vowel Continuant	0078 Velar Pulmonic Fricative Obstruent Continuant	0077 Labial-Velar Vocoid Semivowel Voiced Approximant Continuant
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

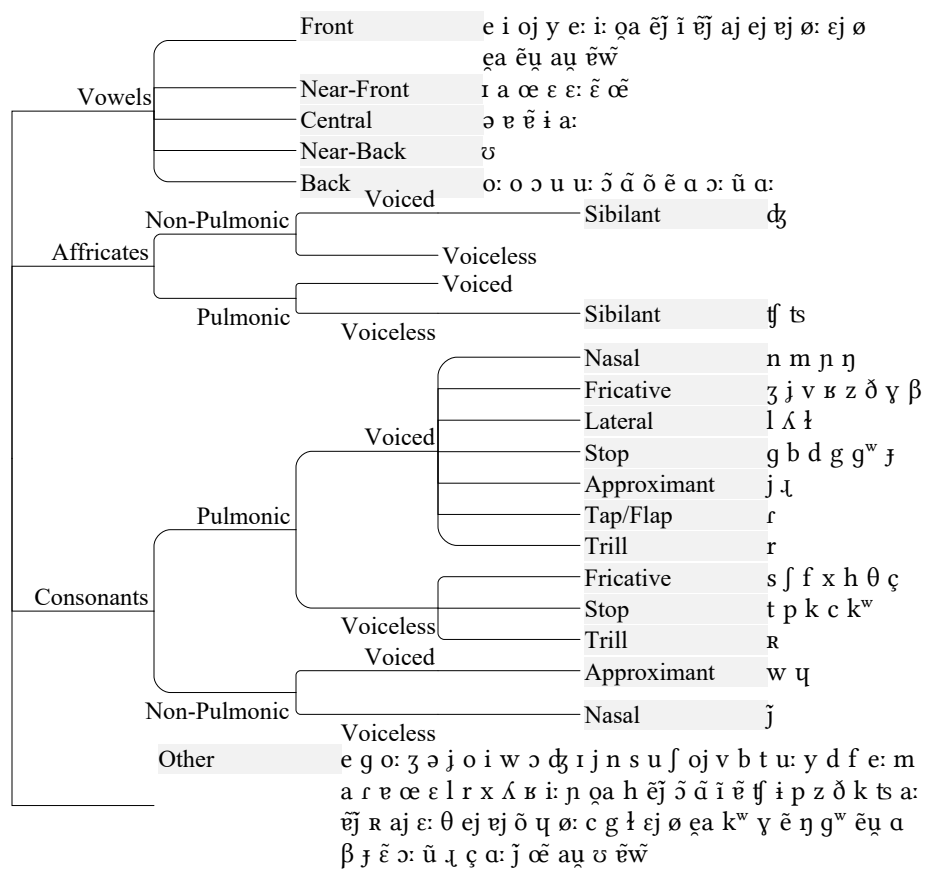
Appendix 7 - International Phonetic Alphabet

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
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	ɐj	œ̃
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
ej	aː	aj	ẽu
0065, 006A Mid Front Vowel Diphthong	0061, 02D0 Open Central Vocoid Long Vowel Continuant	0061, 006A Mid Front Vowel Diphthong	1EBD, 0075, 032F Mid Front Nasal Vowel Diphthong

Appendix 7 - International Phonetic Alphabet

ẽĩ	ɔa	ɛa	au
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
ẽĩĩ	ẽĩ		
0250, 0303, 0077, 0303 Mid Front Nasal Vowel Diphthong	0250, 0303, 006A, 0303 Mid Front Nasal Vowel Diphthong		

Appendix 8 - Feature Tree

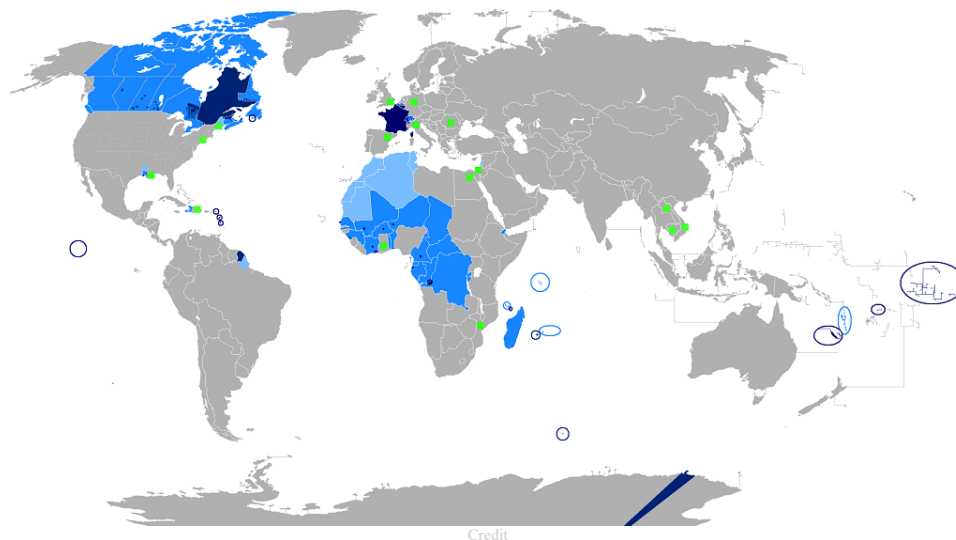


Appendix 9 - Diacritics

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	↘	Global fall	˧	Velarized
˥	High tone	˨	High rising tone	ᵢ	Aspirated
˧	Palatalized	˩	Creaky voiced	ˋ	Low tone
˨	Lateral release	˪	Mid tone	ˌ	Laminal
˩	Linguo-Labial	˫	Nasal release	ˍ	More rounded
˪	Lowered	ˬ	Retracted tongue root	↗	Global rise
˫	Rising falling tone	˭	Raised	ˮ	Extra high tone
ˬ	Breathy voiced	ˮ	Voiced	˯	Labialized
˭	Extra short	˯	Mid-centralized	˰	Down-step
ˮ	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

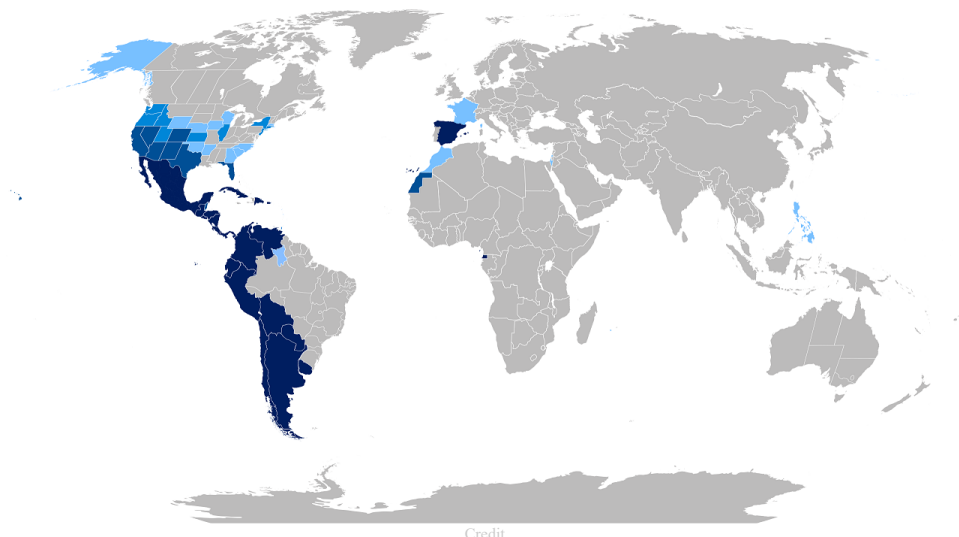


A Romance language of the Indo-European family. It descended from the Vulgar Latin of the Roman Empire, as did all Romance languages. French evolved from Gallo-Romance, the Latin spoken in Gaul, and more specifically in Northern Gaul. Its closest relatives are the other langues d'oïl—languages historically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

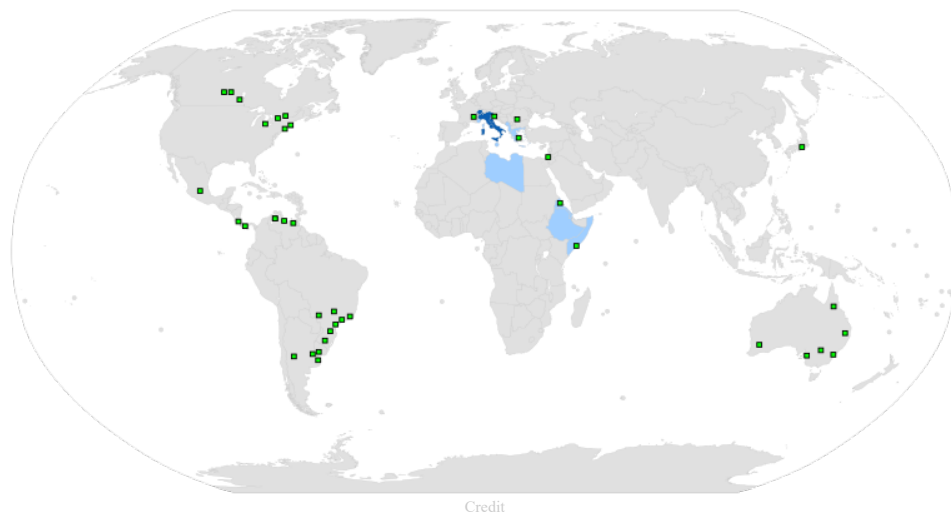
French is an official language in 29 countries across multiple continents, most of which are members of the Organisation internationale de la Francophonie (OIF), the community of 84 countries which share the official use or teaching of French. French is also one of six official languages used in the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

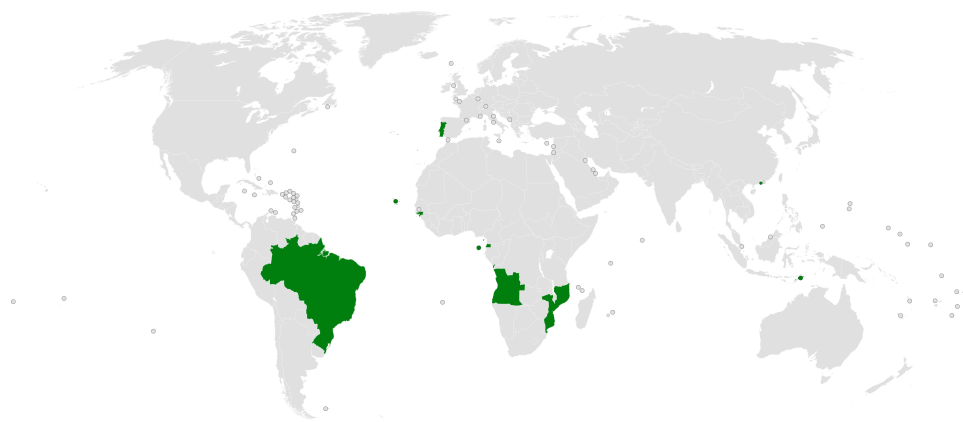
Brazilian Portuguese



Credit

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

Portuguese



Credit

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

Appendix 10 - Languages

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



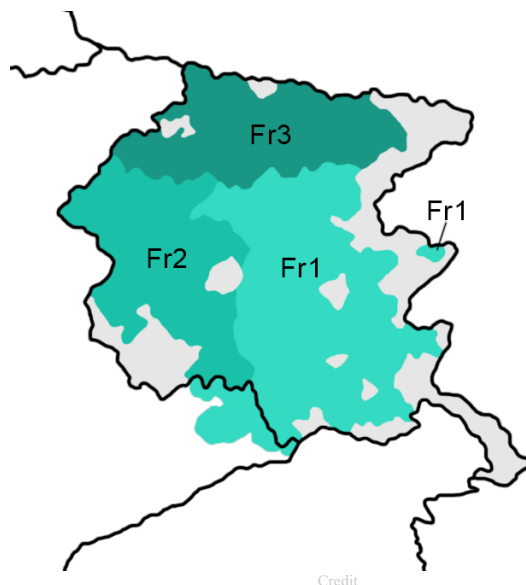
Credit

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



Credit

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".