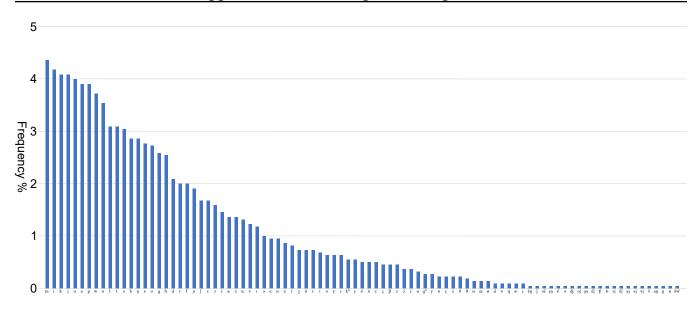
### Appendix 1 - Prior Segment Frequencies



### Appendix 2 - Symbols

### Ψ Phylogeny

The (possibly unknown) relationship between entities resulting from an evolutionary tree

### Tree topology τ

Information on the relationships of the languages

#### Substitution rate μ

the rate at which the language changes

### NSampled languages

The number of languages in a sample

### ν Expected events

The expected number of evolutionary events that occurred between two languages

#### Past times t

Times of branch events

#### BPossible rooted trees

### A Segmental alignment

Constructed by combining the word segment information for the languages of interest with information on the homology

#### S Segmental information

Information on the homology of the segments

#### S Segment

Linguistic segment

### ith segment $\mathbf{S}_i$

### H

Homology map
The map describing the alignment of the segments

### Rate Matrix Q

### 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

### PMarginal Likelihood

### Equilibrium distribution π

### Rate of segment insertion λ

### Rate of segment deletion μ

### Appendix 2 - Symbols

n	Word length
	Number of segments in a word

Rate parameter r

### Rate parameters Parameters associated with the rate matrix θ

### $\theta'$ **Proposal**

New value proposal

### Proposal probability q

Probability of new proposal

### Random number u

### RAcceptance probability

Probability of accepting a proposed value

### MModel

Mathematical model for linguistic parameters

### BF**Bayes Factor**

A numerical factor related to the quality of the model fit

### XUnknown

### Char. Segment Words containing this segment ego:, ew, jew, usted, vose, vose, voste, embra, femmina, femer, femjr, fembra, femeje, mulierem, 0 muxer, mokke, muker, muker, mujere, done, hominem, ombre, infantem, infante, fante, nenēj, nen, epuz, esposa, mulier, muxer, moλλe, muλer, muλer, muλe, mujere, epu, esposo, ma:trem, meв, maðre, ma:dre, men, patre, peв, paðre, pa:dre, nema:l, nəmaje, piskem, pe $\theta$ , p awem, abe, awikellum, useá, passerem, passero, passero, peduklus, pedoli, pədukje, serpentem, sekpa, serpjente, serpente, sekpati, serpen, serpens, sjerpe, serpe, serp, serpe, wermem, vek, berme, verme, vermi, vermi, vjerme, arborem, albero, arbore, selba, selva, selve, flo:rem, fjo:re, floare, penna, pena, pena, pena, pena, pena, pelo, pelu, kabejo, kapello, kabelu, kaβeθa, kavettsa, kabese, keβese, testa, testa, teste, ne, naritfe, gole, el, ale, so:lem, sole, soare, soreli, lune, etwal, estreja, stella, istrele, iftrele, stεle, age, ploje, ploaje, flu:men, fjume, μίνjek, mare, mek, sa:lem, sale, se, sare, terra, tek, tjera, teke, tjere, ka:li:qinem, kalidxine, nebula, njebla, nebbja, newlə, nequrə, tene:braj, te:nebre, tene:bra:s, tenebu, tinjeblas, te:nebre, tənebrəs, fyme, fumate, θjelo, fer, wentum, bjento, ben, qelu:, jelo, cker, fweqo, no:men, no:me, nume, no:minem, nombre, lengwa, bibere, beber, bere, bebes, bißer, bevi, komedere, komer, kome, kumer, manduka:re, mage, mandare, morde:re, morder, mordere, morder, murder, morsika:re, morsika:e, murseka, su:gere, syse, sude, konspuere, kõspye, eskupir, sputere, esputar, sputare, ski:re, sapere, saber, saber, seber, koqno:skere, konoθer, konosser, kuniser, kunoaste, ko:qita:re, kuide, kod;itare, kudeta, pe:nsa:re, pase, pensar, pensare, pese, pensa:, time:re, temer, temere, temer, timer, temo, temi, teme, tremere, tremer, tremare, tremes, trimer, dormire, dormire, wi:were, vivere, vives, viver, morire, moses, muser, neka:re, nwaje, neka, anegar, annegare, tye, tuwe, makta:re, mate, okki:dere, utfidere, utfide, pugna:re, puppare, battuere, battere, bates, buter, bate, kaptia:re, sae, kattsare, pulsa:re, puse, pulsare, seka:re, sje, segar, segare, seqar, sea:, kurta:re, ekskurta:re, ekurte, skortare, ta:lia:re, taje, taλλa:re, di:widere, dividere, divide, skindere, sɛ̃de, ſindere, findere, ender, fɛndere, fẽdeʁ, fẽder, partire, partire, se:para:re, səvke, separar, separare, separak, separa; separa, pundere, pundere, puncke, jugula:re, zygyle, jugula:re, ra:dere, raer, radere, kaek, kver, rade, kaze, rasare, fodere, kawa:re, kavare, ça:vle, ekskawa:re, eskabar, skavare, nata:re, nwotare, naviga:re, naze, nabegar, navigare, wola:re, vole, volare, vole, zvolare, ∫əmine, kamminare, fimine, maʁ∫e, mergere, merckere, mercke, ambita:re, andare, weni:re, benir, venice, veni, ekstendere, etadu, ekstender, estendere, isteder, isteder, əstendrə, ekstinde, jake:re, zezir, jaθer, ʤaffe:re, zezer, zezer, chere, jesi, sede:re, ser, sedere, seß, ſedea, sedenta:re, sentar, senta:, sta:re, estar, stare, leva:re, leve, jebar, levare, levas, levas, altiaire, ose, altsare, tornaire, tusne, tornare, tuine, gyraire, zise, dirace, vise, virare, tork e:re, torθer, tort ere, turser, toart e, kadere, kadere, kadere, tjade, tõbe, tume, tene:re, tener, tenere, tex, ter, tsine, sequrar, eksprimere, epxedx, ekspremir, spremere, ispremex, ispremer, əspremə, esprimi, skreme, serrere, serar, seka, serare, seke, θerar, serrare, seke, appektora:re, apretar, stringere, etuedu, estrepir, strindere, strinde, frika:re, fueje, freqar, fregare, frea, freka, frikta:re, fʁote, frettare, lawa:re, lave, lavare, tergere, tergere, ekstergere, estarsir, ∫teræe, eksu:ka:re, esqije, enxugar, a∬ugare, suwe, limpida:re, tira:re, tike, tirare, tire, puse, trahere, trarre, traze, trezer, trade, impingere, impindere, impinde, jakta:re, zote, etfar, dettare, dete, lankea:re, lõse, lantfare, e:runka:re, arrontfare, liga:re, lie, legar, legare, lea:, lega, apta:re, ko:nsuere, koser, kutfire, kuzer, coase, komputa:re, kõte, kontare, e:numera:re, enumere, enumerar, enumerare, enumera, di:kere, deθir, dire, dizer, zitfe, eksp o:nere, sporre, spune, kanta:re, ſɑ̃te, kantare, fſɑ̃te, lu:dere, joka:re, ʒwe, dokare, duwe, flu:ktua:re, flyktye, fluttuare, fluita:re, fluitare, fluere, flye, fluire, ko:la:re, kule, kolare, kɔle, ekskurrere, eskurir, skorrere, iskorer, iskurer, skurde, kurrere, korer, korrere, korer, kurer, kurde, gela:re, zəle, elar, dzelare, dzale, qlakia:re, qlase, qjattfjare, inglakia:re, ingetsa, bryle, brutfare, bru:le, krema:re, kuame, kemar, kremare, kumare, kejmaue, flamma:re, flabe, flamear, fjammare, arde:re, arder, ardere, audeu, urder, arde, flagra:re, flague, flagrare, inkendere, ε̃sα̃dje, enθender, intsendjare, isendgar, ənsendrə, intsindze, ustula:re, ustolare, alter, grandem, grande, grande, majjorem, mare, le, grabe, greve, grew, grew, lerdo, pesaðo, pesante, pezadu, pezant, pekeno, pekenu, pikenu, brewis, brebe, breve, brew, bref, etwa, estreffo, stretto, menudo, delyado, delikato, dewgadu, subti:lem, sottile, subtsire, dekstrum, djestro, destro, deretfo, drept, ruber, vermikulus, bermexo, vermiλλo, vermeλu, rubeus, rubeo, rude, wiridem, ver, berde, verde, verdi, verde, due, tres, tre, tref, kwi:nkwe, ffinkwe, ekkumhi:k, kwem, kjen, ffine, ke, ffe, kome, ffemu:t, nek, ne, et, e

1	g	ego:, gœl, gø:j, agwe, lago, lagu, ka:li:ginem, negurə, gelu:, fwego, fogu, lãg, leŋgwa, lingwa, līgwe, musəga, musəgar, su:gere, sugar, sugar, kogno:skere, ko:gita:re, nəga, anegar, annegare, segar, pungere, jugula:re, zygyle, nabegar, navigare, nəbəga, naviga, segurar, sigurar, fregar, frəga, iffrigar, tergere, ekstergere, enxugar, affugare, efugar, əfuga, liga:re, legar, legare, zogar, zuga, flugtwar, gela:re, glakia:re, glase, gjatfjare, gləsa, inglakia:re, flagra:re, flagrar, flagrar, flagrare, flagrar, awgũ, ałgũ, əlgu, gra, grande, grande, grædi, grædi, longum, lungo, lõgu, largo, largu, grawis, grav, grabe, greve, gravi, gravi, grew, angustus, angosto, angusto, dewgadu
2	O:	ego:, no:s, no:i, no:, wo:s, vo:i, vo:, homo:, spo:s, o:b, flo:rem, fjo:re, flo:r, so:lem, no:men, no:me, no:minem, kogno:skere, ko:gita:re, ko:nsuere, ekspo:nere, ko:la:re, to:tus, po:k, duo:s, kwando:, kwo:modo, no:n
3	3	ʒə, ʒɔ, pluʒə, kaliʒɛ̃¸j, kɐliʒɐ̃¸j, ʒɛl, ʒɛł, mɑ̃ʒe, mɐ̃ʒaʁ, mɐ̃ʒar, məɲʒa, kuʒitaʁ, kuʒitar, pũʒiʁ, pũʒir, ʒygyle, naʒe, ʒeziʁ, ʒɐzeʁ, ʒɐzeɾ, ʒawɾə, ʒiʁe, ʒiɾar, ʒiɾa, ə∫trı̃ʒir, ə∫trı̃ʒir, əstərʒi, ʒəte, ʒejtar, ʒwe, ʒogaʁ, ʒuyar, ʒuga, ʒuka, ʒəle, ʒɨlar, ʒəla, ɨnʧindʒe, laʁʒ, du:ʒe:, ʁuʒ
4	Э	ʒə, donə, doamnə, əmə, əspəzə, mərit, əspəs, marə, parə, tatə, nəmaje, pasəre, pədukje, sərpen, abrə, coadə, plomə, penə, pənə, pər, ∫əvø, kəbɛʎ, ∫əvɛ, testə, bokə, bukə, gurə, alə, ʎunə, lunə, əstɛl, ajɣwə, apə, pluʒə, tɛrə, tsarə, newlə, negurə, tənebrəs, ʧeaʧə, limbə, bɛwrə, mənʒa, musəga, musəgar, musəɣa, əskupi, səβɛ, kunɛʃə, pənsa, pəsa, temə, biwrə, nəga, məta, batrə, kəsa, səɣa, təʎa, təja, fɛndrə, pərti, səvʁe, səpəra, rawrə, rəza, rəska, kəba, nəda, nəbəga, ∫əmine, kəmina, vəniʁ, bəni, əstendrə, ʒawrə, zəʧea, əsta, ləve, ʎəba, əlsa, tərsə, kawrə, kədea, təniʁ, təni, i∫prəmeʁ, i∫prəmer, əspremə, səʀar, səra, ə∫trīʒir, ə∫trīʒir, əstrɛnə, frəga, frəsa, əstərʒi, ə∫uga, trɛwrə, əmpɛnə, ʒəte, ʎənsa, kənta, əskorə, korə, ʒəle, ʒəla, gləsa, krəma, ənsendrə, əlgu, altrə, amplə, pəzɑ̃, pəzat, pəti, pətit, əstrɛt, məny, mənut, mərunt, dəlikat, destrə, bərmɛʎ, dowə, kwatrə, əʎa
5	j	jo, kabejo, estreja, jubja, jelo, jaθer, jebar, aja
6	0	jo, io, jo, nos, no, bos, voſ, vos, vose, voste, moʎle, domina, dona, done, hominem, ombre, omēj, om, homo:, womo, nino, nino, sponsa, esposa, ispoza, ifpoze, moʎle, mariðo, marito, sponsus, esposo, spozo, ispozu, ifpozu, sokius, sotſo, sots, omaj, wazo, uttfello, paxaro, passero, pjoxo, pidokkjo, pioʎu, poʎ, pedoli, arborem, arβol, albero, abvori, arbore, palo, fruto, frutto, flor, flob, kola, koda, plomə, pelo, kabejo, kapello, naso, na:so, boka, bokka, boke, bokə, gola, golə, sol, sole, solikulus, soreli, o, pjodʤa, ploje, rio, lago, lago, θjelo, telo, bjento, vento, jelo, ʤelo, umo, fumo, fokum, fwego, fwoko, fogu, foyu, fok, ano, anno, nomi, nomi, nombre, komedere, komer, kome, mordere, mobdb, morðer, mobdeb, morsikare, moskar, morsikare, konspuere, kogno:skere, konoθer, konofʃere, koneseb, konosi, koʤitare, dormi:re, dormir, dormire, dobmib, dormi, morir, morire, mobeb, okki:dere, kortar, kobtab, skortare, kosal, fodere, nwotare, wola:re, vole, bolar, volare, voab, zvolare, zvola:, ose, torna:re, tornar, tornare, tobnab, torna:, torkwe:re, tofθer, appektora:re, fbote, frotar, arrontfare, koser, komputa:re, kontar, kontare, konta:, sporre, joka:re, ʤokare, zogab, kolar, kolare, koab, skorrere, ifkobe, əskorə, skori:, korer, korrere, kobeb, korə, kori, ustolare, omne:s, onni; todo, tutto, todu, tot, mutfo, molto, mol, molc, tanto, okœ, alguno, alkuno, poko, poko, powku, otb, otro, altro, owtru, mano, manno, manjorem, longum, longo, lungo, λon, laryo, largo, lato, antfo, ampjo, lerdo, lordo, pesaðo, pekeno, pittino, pikkolo, korto, korto, angosto, angusto, estretfo, stretto, menudo, minuto, delyaðo, delikato, sottile, djestro, destro, deretfo, rubro, roxo, rosso, bofo, bofu, ros, roſu, bermexo, vermiálóo, rubjo, rubbeo, uno, dos, dowə, kwattwor, kwatro, kwattro, θinko, kwando, kwondo, komo, kome, komu, no, non

7	i	io, no:i, vo:i, fe:mina, femmina, fεminε, mulierem, domina, hominem, infantem, infante, ĩf ε̃tfi,
		nino, nino, ispoza, mulier, maʁi, mariðo, marito, maridu, mɐriðu, marit, mərit, ispozu, sokius, mari, pari, animalia, alimaṇa, be:stia, biʃʃa, biʃɐ, bis, piskem, pejʃi, avi, awikellum, pidɔkkjo, pioʎu,
		pedoli, sespēt i, sarpint, vesmi, asvori, silwa, fsqi, pilus, kapillus, tivja, kapitia, nariθ, narite,
		naris, neris, solikulus, soreli, istrele, pluwia, plyi, flumi, rio, uiw, uiu, riw, ri:pa:ria, uivjeu, rivi:u,
		ka:li:ginem, kalina, kalidzine, kalizēj, kulizēj, tinjeblas, kajkia, vint, nomi, no:minem, lingwa, lingwa,
		limbə, bibere, bevi, mwardi, morsika:re, morsika:e, kuspik, kuspik, eskupit, əskupi, sti, kinəh,
		konosi, ko:gita:re, kuide, kwidar, koditare, kuzitar, kuzitar, time:re, temi, trima:, dormir, dormir, dormire, dormir, durmir, durmi, dwarmi, dormi, vivr, bibir, vivere, viver, viver, biwrə, vivi, via,
		musis, morir, morire, muri, mori, turta:ri, oksis, utfidere, uksi, ufide, batir, bati, kaptia:re,
		ta:lia:re, di:widere, dibidir, dividere, &ivi&is, diviðir, dibidi, dividi, divide, skindere, sindere,
		findere, partir, partire, partire, pertir, pertir, pertir, poziti, puzir, pupi, fwir, iskevar,
		i∫kevar, naviga:re, navigare, naviga, naviga, ∫əmine, kaminar, kamminare, keminar, keminar,
		kəmina, fimine, camina:, ambita:re, vəniв, benir, venire, viв, vir, bəni, vini, vini:, veni, istēdeв,
		isteder, ekstinde, zezik, jesi, altia:re, zike, xirar, dirare, zirar, zirar, dira:, vike, birar, virare, virar,
		bira, kvir, tənik, təni, tini, tinji, tsine, eksprimere, ekspremir, ifprəmek, ifprəmer, esprimi, stringere, estrenir, stringere, əftrîzir, əftrîzir, stringe, frika:re, frika:re, frisar, estarsir, əstərzi,
		esqije, limpida:re, limpjar, tira:re, tike, tirar, tirare, tfira, tira, tire, tira:, impingere, impindere,
		impindge, xita, liga:re, lie, λίγα, kutſire, kuzi, kuzi, diʁ, deθir, dire, dizer, di, zitſe, ludir, fluita:re,
		fluitare, fluir, fluire, flwir, flwir, flui, eskurir, iskobeb, iskurer, kubib, kori, glakia:re, inglakia:re,
		inkendere, intfendjare, intfindze, oppi, altri, alius, gredi, grawis, gravi, grevi, pittitus, pəti, pətit,
		piti, pittinus, pittsino, putsin, pitulus, pikkolo, pitsul, brewis, brevi, striktus, istrejtu, minu:tus,
		minuto, miudu, miuðu, minu, minu:t, de:lika:tus, delikato, dəlikat, sutil, sottile, sutfiw, suptil, su:ti, subtsire, direjte, direjte, vermikulus, vermikko, wiridem, kwatri, θinko, tfinkwe, sink, tfink, tfint,
		isi, aki, kwi, ɛki, illa:k, ibi:, vi, ai, ɛi, kwis, ki, kwi, ʧine, kwid, ni, i, ∫i
8	w	ew, jew, wo:s, womo, pwaso, awem, aw, awikellum, wazo, wermem, silwa, sewva, paw, kawde, kow,
		pwal, sɔw, etwal, aγwa, akkwa, agwɐ, ajγwə, ε:w, pluwia, ri:wus, ʁiw, riw, rɨw, saw, nενwɐ, newlə,
		sew, wentum, fwego, fwoko, lengwa, lingwa, ligwe, bwas, bewro, mwardi, savwas, kwidar,
		dwarmi, wi:were, biwrə, nwaje, tuwe, di:widere, pwedr, rawrə, fwir, kawa:re, ekskawa:re, nwotare,
		wola:re, vwar, weni:re, ʒawrə, swaʁ, ∫waʁ, kawrə, lawa:re, suwe, trɛwrə, ʒwe, ʤuwe, flugtwar, flwiʁ, flwir, awgũ, powku, owtru, aw, grawis, grew, grew, brewis, brew, etʁwa, dewgadu, suʧiw,
		drwat, wiridem, dowo, trwa, kwattwor, kwattro, kwattru, kwatro, kwat, kwatri, finkwe,
		kwi, kwa, kwe:, kwando, kwedu, kwan, kwand, kwant
9	э	30, nojs, no∫, vojs, vose, donna, done, done, om, omej̃, ome, om, womo, spoza, espoze, spozo, espos,
		sətfo, pidəkkjo, flə, kəw, kədɛ, pləm, bək, bəcɛ, gəle, səw, səl, sələ, səlej, njəly, fwəko, fək, nəm,
		non, mordere, konetu, kinoh, doumiu, mori, oksiu, vole, toudu, torffere, torsə, loji:, kole, to, poko, pok,
10	dз	ros, robbjo, roff, komã, kom, komẽ dji, pjoddja, kalidjine, djelo, djer, mandjare, sudje, kodjitare, kudjeta, djividjis, pundjere, pundje,
10	45	nedi:, merdere, merde, dafe:ce, dere, dirace, dira:, strindere, strinde, terdere, ∫terde, trade,
		impindere, impinde, dettare, dete, dokare, duwe, duja, skurde, kurde, delare, dale, îsendiar,
		grēdzi, rudze
11	I	dzi, na:ris, îsendziar
12	j	jo, jew, nojs, vojs, femje, femeje, mujere, mujere, omaj, nomaje, ut∫jεl, pjoxo, pidokkjo, pju, podukje,
		serpjente, sjeupë, sjerpe, vjen, vjer, vjerme, frujt, fjo:re, pjuma, fjivja, gø:j, jubja, pjodʤa, ploje, ploaje, fjume, μινjeu, tjera, tjere, njoly, njebla, nebbja, tinjeblas, sjel, θjelo, bjento, skujpa, kujda, sje, tαje,
		teji:, taja:, təja, jugula:re, jugula:re, jake:re, jesi, fjade, tinji, esqije, suja:, limpjar, jakta:re, loji:,
		joka:re, dzuja:, gjattf jare, f jammare, esadje, intfendjare, isedjar, majjorem, ampjo, djestro, rubjo,
		rəbbjo, kjen

13 no:s, nu, nos, no:i, nojs, nof, no, no:, noj, fe:mina, femmina, femine, domina, donna, dona, dona, done, doamno, hominem, infantem, infante, fante, nipo, nipo, nenej, nen, sponsa, sponsus, animalia, nema:l, nəmaje, serpentem, serpjente, serpente, sərpen, sarpint, serpens, penna, pεn, penu, pen, pene, pane, na:sus, ne, naso, na:so, nas, na:s, nariθ, narife, naris, nerif, na:ris, lu:na, lyn, luna, липә, løn, lune, lunə, flu:men, ka:li:ginem, kalina, kaliфine, nebula, njəly, njebla, nebbja, nενwɐ, newlə, negurə, tene:braj, tɛ:nebre, tene:bra:s, tenεbʁ, tinjeblas, tɛ:nebre, tənebɾəs, wentum, bjento, vento, ben, vint, vint, annum, anno, enu, an, no:men, nõ, no:me, nomi, nomi, nom, nõ, non, nume, no:minem, nombre, lingwa, lingwa, lenge, manduka:re, mandukar, mandare, minka, konspuere, kogno:skere, konetʁ, konoθeɾ, konoʃʃere, kunɛʃə, kinəh, kuno̞aʃte, pe:nsa:re, pensaɾ, pensaɾe, pənsa, neka:re, nwaje, nəga, neka, anegar, annegare, pugna:re, skindere, ∫indere, findere, ender, fɛndere, fendrə, pungere, punckere, puncke, nataire, nadar, nwotare, nadar, neðar, nəda, nadai, navigaire, naze, nabegar, navigare, naviyar, neviyar, nəbəga, nεκκί:, naviga:, naviga, ſəmine, kaminar, kamminare, kəmina, fimine, camina:, andar, andare, weni:re, vənik, benir, venire, bəni, vini, veni, ekstendere, ekstender, estendere, əstendrə, ekstinde, sedentaire, sentar, sentai, tornaire, tukne, tornar, tornare, toknak, turnar, turna, turne, torna:, turna, tene:re, tənik, tener, tenere, təni, tini, tinji, tsine, stringere, strindere, stringe, strengi:, strinde, enxugar, impingere, impindere, impincke, lankea:re, lanθar, lantfare, λənsa, lanci:, lantfa:, e:runka:re, arankar, arrontfare, ko:nsuere, kontar, kontare, konta:, e:numera:re, enumere, enumerar, enumerare, enumera, numara, ekspo:nere, spune, kanta:re, kantar, kantare, kənta, canta:, kɨnta, inqlakia:re, ɨngetsa, inkendere, enθender, int[endjare, isendiar, ensendre, int[indze, omne:s, tantus, tanto, tant, tanc, alguno, alkuno, magnum, grandem, grande, grande, grant, longum, longo, lungo, lunk, lung, antfo, pe:sant, pesante, pezant, pittinus, pittino, pekenu, pikenu, putsin, angustus, angosto, angusto, minu:tus, məny, menudo, minuto, mənut, minu, minu:t, mərunt, u:num, uno, un, unu, kwi:nkwe, θinko, finf, kjen, fine, kwando, kwando, kwand, kwand, kwant, kind, no:n, nõ, no, non, nõw, nu, nek, ni, ne, nej, nej, ne 14 no:s, nos, nojs, wo:s, bos, vojs, bus, vos, usted, vose, vose, voste, sponsa, esposa, spoza, ispoza, əspoza, mari:tus, sponsus, esposo, spozo, ispozu, əspos, spois, sokius, sotfo, sots, beistia, bis, piskem, pes, pwasõ, useá, passerem, passero, passeru, passere, peduklus, serpentem, seκρᾶ, serpjente, serpente, seupēffi, sirpēti, sərpen, sjeupē, sarpint, serpens, sjerpe, serpe, serp, silwa, selba, selva, sewva, selve, selve, pa:lus, fru:ktus, pilus, kapillus, kavettsa, kabese, keβese, testa, testa, teste, testə, fes, teste, na:sus, naso, na:so, nas, na:s, naris, na:ris, so:lem, sol, sole, sow, sol, solo, soare, solikulus, solej, soreli, ste:lla, estreja, stella, istrele, əstel, stø:l, stele, stea, ri:wus, sa:lem, sel, sal, sale, saw, se, sa:l, sare, tene:bra:s, tinjeblas, tənebrəs, fuması, sjel, sew, sel, si:ı, fu:mus, morsika:re, moskar, morsikare, musəqa, musəqa, musəya, murseka, su:qere, syse, suqar, sysi:, sud;e, konspuere, kõspye, kuspir, eskupir, əskupi, skujpa, sputere, esputar, sputare, spudar, skire, sapere, savwar, saber, saber, seber, seβe, savø:R, save:, koqno:skere, koneser, kuniser, konosi, pe:nsa:re, pase, pensar, pensare, pēsaʁ, pēsar, pənsa, pɛ̃se, peŋsa:, pəsa, ɔksiʁ, uksi, ∫ase, kasaʁ, kɐsar, kəsa, ʧɛsi:, pulsa:re, puse, pulsare, pulsa:, pulsa, seka:re, sje, segar, segare, segar, siyar, səya, sea:, ekskurta:re, skortare, skurta:, skurta, skindere, sede, se:para:re, səvue, separar, separare, separau, sɨpurar, səpəra, separa:, separa, rasar, rasare, rasa:, raskar, rəska, kosal, kusar, ekskawa:re, eskabar, skavare, ekstendere, ekstender, estendere, istedeu, əstendrə, ekstinde, jesi, sede:re, swau, ser, sedere, seu, sedenta:re, sentar, setar, sentar, stare, estar, stare, əsta, es, star, ose, alsa, alsar, əlsa, hərsir, turser, tərsə, segurar, sigurar, siyurar, eksprimere, ekspremir, spremere, əspremə, esprimi, skreme, serrere, serar, seka, sərar, səra, serare, seke, serrare, sɨkar, sere, stringere, estrepir, strindære, əstrepə, stringe, strengi:, strɨndɨe, frisar, frəsa, eksterqere, estarsir, əstərʒi, eksu:ka:re, esqije, suwe, suja:, uska, puse, pu:si:, pulsa:, lase, lesa, lesar, Aonsa, ko:nsuere, koser, coase, ekspo:nere, sporre, spune, ekskurrere, eskurir, skorrere, əskorə, skori:, skurdze, qlase, qləsa, ɛ̃sɑ̃dje, īsendziar, īsẽdjar, ənsendrə, ustula:re, ustolare, ustura, omne:s, to:tus, multus, tantus, paukus, alius, grawis, lurdus, pe:sant, pesaðo, pesante, pittitus, pittinus, pitulus, kurtus, brewis, angustus, angusto, angusto, ingust, striktus, estretfo, stretto, istrejtu, əstrɛt, stʁø:, strɛt, strɨmt, minu:tus, de:lika:tus, subti:lem, sutil, sottile, sutfiw, suptil, su:ti, suti:l, subtsire, dekstrum, djestro, destro, destro, destro, di:re:ktus, destra, russus, rosso, ros, ros, vermikulus, rubeus, duo:s, dos, dojs, duas, dues, tre:s, tres, tres, sek, siku, sink, isi, kwis, si:k

1.7		
15	u	nu, vu, bus, tu, usted, mulierem, muxer, muλes, muλer, muλe, mui:r, mujere, epuz, mulier, muxer, muλes, muλer, muλe, mui:r, mujere, mari:tus, maridu, meriðu, sponsus, epu, ispozu, ispozu, sokius, awikellum, utsello, useλ, ussel, paseru, peduklus, pu, pioλu, pju, pədukje, arvuri, arbul, pa:lus, fru:ktus, fruto, fruto, frute, frujt, frut, frukt, kua, pluma, pjuma, plume, pilus, pelu, pilu, kapillus, kabelu, keβelu, na:sus, bukka, bus, bukə, gula, gurə, solikulus, luna, lue, λunə, lune, lunə, pluwia, jubja, suve, pluzə, fjume, flumi, flum, ri:wus, kiu, lakum, lagu, layu, nebula, negurə, fumata, fuma:ta, fumase, fumate, kajlum, wentum, větu, fu:mus, umo, fumo, fumu, fum, fokum, fogu, foyu, annum, enu, nume, kumer, manduka:re, mandukar, murðer, musəga, musəgar, musəya, murseka, sugas, sugar, cuca:, sudæ, konspuere, kuspis, kuspir, əskupir, əskupi, skujpa, sputere, esputar, sputare, spuda:, kuniser, kunɛsə, kunoaste, kuzitas, kuzitar, kujda, kudæta, durmir, durmi, durmi:, musis, muser, muri, muri, tuwe, utstere, uksi, usside, pugna:re, punar, punnare, puna, battuere, pulsa:re, puse, puxar, pulsare, pusar, pulsa:, pulsa, kurta:re, kurtar, ekskurta:re, ekuste, skurta; skurta, pungere, pundære, puni, pundæ, jugula:re, jugula:re, kusar, bula, zbura, lua, tusne, turnar, turna, turna, turser, tumbar, tumba, tume, segurar, siguras, siyurar, enxugar, assugar, assugar, esunka; kuzi, konputa:re, kumta, e:numera:re, enumese, enumerar,
		enumerare, enumera, numara, spune, ludir, xugar, zuyar, zuga, œuwe, œuja:, zuka, flu:ktua:re, flugtwar, fluttuare, flutuaß, flutuar, fluktua, fluctua, fluita:re, fluitare, fluere, fluir, fluire, flui, kule, kuar, kuła, ekskurrere, eskurir, iſkurer, skurœe, kurrere, kußß, kußer, kuße, bruffare, bruza:, ustula:re, ustolare, ustura, to:tus, tu, tutto, todu, toðu, dut, multus, mu, mufo, mujtu, mult, tantus, tetu, tetu, alguno, alkuno, əlgu, paukus, powku, owtru, alius, magnum, longum, lungo, logu, lunk, lung, largum, largu, la:tum, latu, amplum, eʃu, lurdus, luß, pezadu, pizaðu, pittitus,
		pittinus, pekenu, pikenu, putsin, pitulus, pitful, kurtus, kur, kurtu, kurtu, kurt, kurt, angustus, angusto, ingust, striktus, istrejtu, iftrejtu, minu:tus, menudo, minuto, miudu, miuðu, menut, minu, merunt, de:lika:tus, dewgadu, dεlγαδυ, subti:lem, sutil, sutfiw, suptil, suti:l, subtsire, dekstrum, destru, deftru, di:re:ktus, ruber, rubro, russus, ruben, rofu, vermikulus, vermeću, virmejću, rubeus, rubjo, rubeo, rucke, u:num, uno, un, un, unu, duo:s, duaj, due, duas, dues, duef, kwatru,
16	ſ	patru, sĩku, ekkumhi:k, kwẽdu, komu, kum, nu nɔʃ, voʃ, iʃpoze, iʃpozu, biʃʃa, biʃe, peʃʃe, pejʃi, pejʃi, peʃ, peʃte, ʃarpe, ʃarpe, ʃəvø, ʃəvɛ, tɛʃte, neriʃ, buʃ, iʃtrele, ʃuve, trɛveʃ, kuʃpir, ʃti, konoʃʃere, kunɛʃə, kunoaʃte, ʃase, puʃaɛ, puʃar, ʃindere, ʁaʃkaɛ, ʁɐʃkar, iʃkevaɛ, iʃkevar, ʃəmine, maʁʃe, iʃtēder, ʃedea, iʃtar, altʃa:, ʃwaɛ, iʃprəmeʁ, iʃprəmer, əʃtrīʒir, əʃtrīʒir, iʃfrigar, iʃfriyar, ʃterʤe, aʃʃugare, ĕʃugar, ĕʃuyar, əʃuga, ʃɑ̃te, iʃkoʁeʁ, iʃkuɛer, ĕʃu, iʃtrejtu, dɛʃtru, ʁoʃʊ, ʁoʃu, roʃu, dojʃ, duɐʃ, treʃ, ſi
17	oj	noj, voj, froj, rojb, dojs, doj∫, doj
18	v	vu, vo:i, vojs, voſ, vos, vo:, voj, vose, vose, voste, avi, avi, veʁ, verme, veʁmi, veɾmi, vɛɾm, vjɛʀ, vjer, vjerme, aʁvoɾi, arvuɾi, selva, sɛwva, sɛlve, sɛlve, ʃəvø, ʧivja, cavej, ʃəvɛ, kavettsa, ʃuvɐ, ʁivjeʁ, riviːʁ, nɛvwɐ, tɾɛvɐʃ, vɑ̃, vɛnto, vetu, vē, vint, vint, bevi, savwaʁ, savøːʀ, saveː, vivʁ, vivere, vivɐ, viver, vivi, via, dividere, ʤiviʤiʁ, dividir, dividi, divide, səvʁe, kavare, kɐvaʁ, kɐvaɾ, çɑːvle, javaː, skavare, iʃkɐvaʁ, iʃkɐvar, zjavaː, navigaːre, navigare, naviyaʁ, nɐvɨγaɾ, navigaː, naviga, vole, volare, voaʁ, vwaɾ, vɔle, zvolare, zvolaː, vəniʁ, veniɾe, viʁ, vir, vini, viniː, veni, levaːre, ləve, levare, levaʁ, livar, levaː, viʁe, viraɾe, viraɾ, lave, lavare, lɐvaɾ, lavaː, gʁav, grɛve, gɾavi, gɾavi, grav, grɛvi, brɛve, brɛvi, brɛvi, vermikulus, vɛʁmɛj, vermiʎʎo, veʁmeʎu, vɨɾmɐjʎu, veʁ, verde, veɾdi, vɛɾt, vɛʁ, vɛrt, veɾde, vi
19	b	bos, bus, embra, fembra, ombre, be:stia, bisa, bise, bis, abe, berme, arborem, abb, albero, abrə, o:b, arbul, arbore, selba, kabejo, kabelu, kəbεs, kabese, bukka, bus, boka, bokka, boke, bokə, bək, bəce, bukə, jubja, nebula, njebla, nebbja, tene:braj, te:nebre, tene:bra:s, tenebb, tinjeblas, te:nebre, tənebrəs, bjento, ben, nombre, limbə, bibere, bwab, beber, bere, bebeb, bißer, bewrə, bøib, bevi, bea, saber, sabeb, seber, bibir, biwrə, battuere, batb, batir, battere, bateb, beter, batrə, bate, bati, dibidir, dibidi, kabar, kəba, eskabar, nabegar, nəbəga, bolar, bula, zbura, ambita:re, benir, bəni, jebar, səba, birar, bira, töbe, tumbar, töbab, töbar, tumba, bbyle, brufare, bbu:le, bruza:, flābe, grabe, brewis, bbef, brebe, breve, brevi, brevi, brew, bbef, subti:lem, subtsire, ruber, rubro, bermexo, bərmes, rubeus, rubjo, rəbbjo, rubeo, rojb, berde, ibi:

20	t	tu:, ty, tu, usted, voste, infantem, infante, fante, îfeti, mari:tus, marito, marit, marit, mərit,
		ma:trem, patre, tata, tata, be:stia, peste, utsello, serpentem, serpjente, serpente, sirpeti, sarpint,
		fru:ktus, fruto, frutto, frute, frujt, frut, frukt, kapitia, kavettsa, testa, tet, testa, teste, te∫te, testə,
		teste, ste:lla, etwal, estreja, stella, istrelɐ, i∫trelɐ, əstel, stø:l, stele, ste̯a, la:t, terra, teʁ, tjera, terra,
		teʁɐ, tɛʁɐ, tɛrə, tɛːʁ, tjɛre, tene:braj, tɛ:nebre, tene:bra:s, tenɛbʁ, tinjeblas, tɛ:nebre, tɾɛvɐʃ, tənebɾəs,
		fu:ma:ta, fumata, fuma:ta, fumate, wentum, bjento, vεnto, vētu, vint, vɨnt, sputere, esputar,
		sputare, ∫ti, konεtʁ, kuno̞aʃte, ko:gita:re, koʤitare, kuʒitaʁ, kuʒitar, kuʤeta, time:re, temer, temere,
		temes, timer, temə, temi, teme, tremere, tremer, tremare, tremes, trimar, turtari, tue, tuwe,
		makta:re, mate, matar, matar, metar, meta, utflidere, battuere, batr, batir, battere, bater, beter,
		batrə, bate, bati, kaptia:re, kattfare, kurta:re, kortar, kortar, kurtar, ekskurta:re, ekurte, skortare,
		skurta:, skurta, ta:lia:re, tαje, taxar, taλλa:re, taλaκ, tελar, təλa, tεji:, taja:, təja, fɛ̃t, parti:re, paʁtiʁ,
		partir, partire, pertir, pərti, pə:rti, parti; nata:re, nwotare, ambita:re, ekstendere, etadı, ekstender,
		estendere, isteder, isteder, əstendrə, ekstinde, sedenta:re, sentar, setar, senta:, sta:re, etr, estar,
		stare, iftar, əsta, sta:, sta, altia:re, altfa:, torna:re, tuune, tornar, tornare, tounau, turnar, turna,
		tu:rne, torna:, turna, torkwe:re, toudu, torθer, tortfere, turser, torsə, toartfe, tobe, tumbar, tobau,
		tõbar, tumba, tume, tene:re, tənik, tener, tenere, tek, ter, təni, tini, tinji, appektora:re, apretar,
		υρɨɾtar, stringere, etuε̃du, estrepir, strindere, ə∫trīʒir, ə∫trīʒir, əstrεpə, stringe, strengi:, strɨnde,
		frikta:re, fвote, frotar, frettare, tergere, terdere, ekstergere, estarsir, əstərzi, ∫terde, tira:re, tiве,
		tirar, tirare, tira, tire, tira:, trahere, tueu, trarre, traze, trezer, trewre, traj, trade, jaktare, zete,
		dettare, zejtar, xita, dete, apta:re, atar, etar, komputa:re, kõte, kontar, kontare, kõtar, kumta,
		konta:, kanta:re, ſɑ̃te, kantar, kantare, kẽtar, kənta, fote, canta:, kɨnta, flu:ktua:re, flyktye,
		flugtwar, fluttuare, flutuar, flutuar, fluktua, fluctua, fluita:re, fluitare, gjattjjare, ustula:re,
		ustolare, ustura, to:tus, tu, todo, tutto, todu, toðu, tot, to, dut, multus, molto, mũjtu, mult, tantus,
		tanto, tetu, tetu, tant, tanc, alter, otro, altro, owtru, altro, ot, altri, alt, grant, la:tum, lato, latu,
		lat, pe:sant, pesante, pəzat, pezant, pittitus, pəti, pətit, piti, pittinus, pittlino, pitulus, kurtus, korto,
		korto, kurtu, kurtu, kurt, angustus, angosto, angusto, ingust, striktus, etrwa, estreffo, stretto,
		istrejtu, istrejtu, əstret, strø:, stret, strimt, minu:tus, minuto, mənut, minu:t, mərunt, de:lika:tus,
		delikato, dəlikat, subti:lem, sutil, sottile, suptil, su:ti, suti:l, dekstrum, djestro, dεstro, dεstru, dεſtru,
		destrə, di:re:ktus, duwat, destra, direjte, direjte, dret, drø:t, dret, drept, vert, vert, tre:s, tuwa, tres,
		tre, tref, tres, trø:, tre:, trej, kwattwor, katu, kwatro, kwattro, kwatro, kwatro, kwatro, kwatri, patru,
		kwant, tsemu:t, et
21	u:	tu:, u:hɛ:, fru:ktus, plu:ma, lu:na, plu:ʁ, flu:men, fu:ma:ta, gelu:, fu:mus, fu:k, su:gere, tu:ta:ri, tu:rne,
		eksu:ka:re, pu:si:, lu:dere, flu:ktua:re, bxu:le, ku:x, minu:tus, minu:t, du:ze:, su:ti, u:num, femu:t
22	у	ty, fry, plym, lyn, by, njoly, fyme, syse, sysi:, kõspye, zygyle, gyra:re, flyktue, flye, bbyle, məny
23	d	usted, domina, dam, dona, donna, done, done, done, done, doamne, macidu, ma:dre, pa:dre,
		peduklus, pidokkjo, pedoli, pədukje, kauda, koda, kawde, kodε, coadə, pjodoga, komedere,
		manduka:re, mandukar, morde:re, moudu, mordere, moudeu, mwardi, spuda:, kuide, kwidar, kujda,
		kuedu, dormi:re, dormir, dormire, doumiu, durmir, durmi, dwaumi, durmi;, dormi,
		okki:dere, utfidere, utfide, di:widere, dibidir, dividere, diviðir, dibidi, dividi, divide, skindere, sede,
		sindere, findere, fadu, ender, fendere, fedeu, fedeu, fendro, pwedu, ra:dere, radere, rada:, rade,
		fodere, nadar, nadar, nada, nada; andar, andare, vdar, vdar, ekstendere, etadr, ekstender,
		estendere, isteder, i∫teder, əstendrə, ekstinde, sede:re, sedere, ∫edea, sedenta:re, təʁdʁ, kadere,
		kadere, fjade, kədea, epuedu, etuedu, limpida:re, kudu, di:kere, diu, deθir, dire, dizer, di, di:u, di:,
		lu:dere, ludir, arde:re, arder, ardere, ardere, arder, arde, inkendere, ε̃sãdje, enθender,
		inffendjare, îsedjar, ənsendrə, inffindze, todo, todu, dut, grandem, grande, grande, gredi, lurdus,
		lerdo, lordo, pezadu, menudo, miudu, de:lika:tus, du:3e:, delyaðo, delikato, dewgadu, dełyaðu,
		dəlikat, dekstrum, djestro, destro, destru, destrə, di:re:ktus, duwat, dereffo, destra, direjtu,
		direjte, dret, drø:t, dret, drept, wiridem, berde, verde, verde, duo:s, dø, dos, dojs, dojf, dø:, doj,
		duaj, due, dowə, duas, dues, duef, kwid, kwando:, kwando, kwedu, kwand, kind, kwo:modo
24	f	fe:mina, fam, femmina, femey, femjy, fembra, fem, femine, femeje, infantem, afa, infante, fante,
		îfeţi, îfeţi, efa, fru:ktus, futi, fruto, frutto, frute, frujt, fry, frut, frukt, flo:rem, flœu, flor, fjo:re,
		flor, flor, flor, floare, ca:f, flu:men, fjume, flumi, flumi, flum, fu:ma:ta, fyme, fumata,
		fuma:ta, fumase, fumate, fu:mus, fumo, fumu, fum, fokum, fø, fwego, fwoko, fogu, foyu, fok, fø:,
		fu:k, fok, findere, fadu, fendere, fedeu, feder, fendro, fet, fodere, fwiu, frika:re, fueje, fregar,
		fregare, froga, froj, frea, freka, iffrigar, iffriyar, frikta:re, fuote, frotar, frettare, frisar, frosa,
		flu:ktua:re, flyktye, flugtwar, fluttuare, flutuar, flutuar, fluktua, fluctua, fluita:re, fluitare,
		fluere, flye, fluir, fluire, flwir, flwir, flui, flamma:re, flabe, flamear, fjammare, flama, flagra:re,
		flague, flagrar, flagrare, flaguau, flagrar, buef, buef

25	e:	fe:mina, be:stia, pe:l, ste:lla, tene:braj, tene:bra:s, morde:re, save:, pe:nsa:re, time:re, se:para:re,
		jake:re, ʤaʧe:re, sede:re, tork <sup>w</sup> e:re, tene:re, e:runka:re, e:numera:re, arde:re, omne:s, pe:sant,
		de:lika:tus, du:ʒe:, di:re:ktus, tre:s, tre:
26	m	fe:mina, fam, embra, femmina, femer, femjr, fembra, fæm, femine, femeje, mulierem, muxer,
		moλλe, muλeκ, muλer, muλe, mui:r, mujere, domina, dam, dœm, doamnə, hominem, əm, ombre,
		omēj, omēj, omə, om, om, homo:, womo, infantem, mulier, muxer, moλλe, muλeκ, muλer, muλe,
		muir, mujere, maritus, mari, mariðo, marito, maridu, meriðu, marit, marit, mərit, mərtrem, mer,
		maðre, ma:dre, mæj, marə, men, mari, animalia, omaj, alimapa, nema:l, nəmaje, piskem, awem,
		awikellum, passerem, serpentem, wermem, berme, verme, vermi, vermi, vermi, vjerme, arborem,
		flo:rem, plu:ma, plym, pluma, pjuma, plomə, plom, plume, so:lem, flu:men, fjume, flumi, flumi,
		flum, lakum, mare, meß, mar, maß, mar, meß, ma:r, sa:lem, ka:li:ginem, fu:ma:ta, fyme, fumata,
		fuma:ta, fumase, fumate, kajlum, wentum, fu:mus, umo, fumo, fumu, fum, fokum, annum, no:men,
		no:me, nomi, nomi, nom, nume, no:minem, nombre, limbo, komedere, komer, kome, kumer,
		manduka:re, mãze, mandukar, mandare, mēzar, mēzar, mənza, mani:, manja:, mɨnka, morde:re,
		moвdв, morðer, mordere, moвdeв, murðer, mwardi, morsika:re, moskar, morsikare, musəga,
		musəgar, musəya, murseka, time:re, temer, temere, temes, timer, temə, temi, teme, tremere, tremer,
		tremare, tremes, trimer, trima:, dormi:re, dosmis, dormir, dormire, dosmis, durmir, durmi,
		dwarmi, durmi:, dormi, murir, morir, morire, morer, murer, muri, mori, muri; muri, makta:re,
		mate, matar, matak, metar, mota, mafa:, somine, kaminar, kamminare, keminak, keminar, komina,
		fimine, camina:, marfe, ma:Rfi:, mergere, merchere, merche, ambita:re, tumbar, tumba, tume,
		eksprimere, ekspremir, spremere, ispramer, ispramer, asprema, esprimi, skreme, limpida:re, limpjar,
		impingere, impindere, əmpεnə, impinde, komputa:re, kumta, e:numera:re, enumere, enumerar,
		enumerare, enumera, numara, krema:re, kuame, kemar, kremare, kuimare, kejmaue, kroma,
		flamma:re, flamear, fjammare, fłama, omne:s, multus, mu, mutfo, molto, műjtu, mol, molc, mult,
		magnum, mano, manno, grandem, majjorem, mare, longum, largum, la:tum, amplum, ampjo, amplə,
		strimt, minu:tus, məny, menudo, minuto, miudu, miuðu, mənut, minu, minu:t, mərunt, subti:lem,
		dekstrum, vermikulus, νεμπεί, bermexo, vermiλλο, veμmeλu, virmejλu, bərmελ, wiridem, u:num,
		ekkumhi:k, kwem, kwo:modo, komã, komo, kome, komu, kom, kome, femu:t, kum
		vincential, a company vincential, kompany komp

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fe:mina, fam, embra, femmina, fembra, domina, dam, dona, donna, infantem, infante, fante, sponsa, esposa, spoza, ispoza, mari:tus, maʁi, maɾiðo, maɾito, maɾidu, maɾit, maɾiːt, maðɾe, maɾə, mari, patre, paŏre, parə, pari, tata, tatə, animalia, omaj, alimana, nəmaje, be:stia, bi∬a, pwasõ, awem, abe, avi, avi, aw, awikellum, wazo, passerem, paxaro, passero, passeru, pasəre, sarpint, ∫arpe, farpe, arborem, arbu, arβol, albero, arvori, arvuri, abrə, arbul, arbore, silwa, selba, selva, sewva, pal, palo, paw, par, kauda, kola, koda, kawde, kua, plu:ma, pluma, pjuma, penna, pena, panə, pwal, kapillus, kabejo, kapello, kabelu, ʧivja, cavej, kapitia, kaβeθa, kavettsa, kabesɐ, kap, testa, tɛsta, naso, nas, nariθ, narife, naris, bukka, boka, bokka, gula, gola, a:la, ala, a, alə, ale, lu:na, luna, ste:lla, etwal, estreja, stella, ak<sup>w</sup>a, aywa, akkwa, agwe, age, apə, pluwia, jubja, pjodd;a, ri:pa:ria, lakum, lak, lago, lago, lagu, lagu, λak, mare, mar, mar, mar, sal, sale, saw, sare, terra, tjera, tɛrra, tsarə, kalina, kalickine, kalizej, nebula, njebla, nebbja, tinjeblas, fu:ma:ta, fumata, fuma:ta, fumase, fumate, kajkia, annum, apo, anno, ap, aŋ, an, ling<sup>w</sup>a, leŋgwa, lingwa, manduka:re, mandukar, manckare, mezar, mezar, manza, mani:, manza:, minka, mwardi, moskar, morsikare, musaqa, musəqar, musəya, murseka, suqar, suqar, skujpa, esputar, sputare, sapere, savwar, saber, saber, savø:R, save:, kwidar, koditare, kuzitar, kuzitar, kujda, kudeta, pensar, pensare, pēsar, pənsa, pəsa, tremare, dwakmi, via, nəqa, neka, aneqar, anneqare, maktare, mate, matar, matak, metar, məta, matfa:, punar, punnare, puna, battuere, batı, batır, battere, bateı, batrə, bate, bati, kaptia:re, ſase, kaθar, katʧare, kasar, kesar, kəsa, caʧa:, puxar, pulsare, puſar, puſar, pulsa, segar, segare, segar, sɨyar, səya, kortar, kortar, kurtar, skortare, skurta, taxar, taλλa:re, taλar, trλar, təλa, taja:, təja, parti:re, paʁtiʁ, paɾtiɾ, partire, paʁtʃiʁ, parti:, se:paɾa:re, sepaɾar, sepaɾare, sepaɾaʁ, siperar, səpəra, separa; separa, raer, radere, kaek, rawrə, rada; rade, rasar, rasare, kazak, kezar, rəza, rasa:, raskar, ʁaſkaʁ, ʁɐʃkar, rəska, kosaı, kusar, kawa:re, kabar, kavare, kɐvaʁ, kɐvar, kəba, java:, ekskawa:re, eskabar, skavare, iſkevar, iſkevar, zjava:, nata:re, nadar, nwotare, nadar, neðar, nəda, nada:, naviga:re, naze, nabeqar, naviqare, naviyar, neviyar, nəbəqa, naviga:, naviqa, bolar, volare, voar, vwar, bula, zvolare, zbura, kaminar, kamminare, keminar, keminar, kemina, camina:, mas[e, ambita:re, andar, andare, ĕdas, ĕdar, jake:re, jaθer, ʤat[e:re, ʒawrə, swas, sentar, sĕtar, estar, stare, iſtar, əsta, sta, jebar, levare, levar, livar, λəba, lua, altia:re, alθar, altsare, alsa, alsar, əlsa, altsa:, tornar, tornare, toknak, turnar, turna, turna, xirar, dirare, zirar, zira, birar, virare, virar, bira, kadere, ſwaß, kaer, kadere, kawrə, fſjade, tumbar, tõbaß, tõbar, tumba, segurar, sɨguraß, siyurar, serar, seka, səkar, səra, serare, θerar, serrare, sikar, appektora:re, apretar, epirtar, fregar, fregare, frega, frea, freka, iffrigar, iffriyar, frotar, frettare, frisar, fresa, lawa:re, lave, laβar, lavare, levar, lava:, la, estarsir, enxugar, a∬ugare, ĕ∫ugar, ĕ∫uγar, ə∫uga, uska, limpjar, lĭpar, tirar, tirare, ʧira, tira, trahere, trarre, traze, tradge, jakta:re, eʧar, dettare, zejtar, xita, lankea:re, lanθar, lantfare, lẽsa, lẽsar, λənsa, lanci:, lantfa:, arankar, arrontfare, arunka, legar, legare, λίγα, lega, apta:re, atar, gtar, kontar, kontare, kotar, kumta, enumerar, enumerare, enumera, numara, kanta:re, kantar, kantare, ketar, kenta, canta:, kinta, xugar, dokare, zogar, zuyar, zuga, zuka, flugtwar, fluttuare, flutuar, flutuar, fluktua, fluctua, fluitare, kolar, kolare, koar, kuar, kuła, elar, ckelare, zilar, zəla, ckale, glakia:re, glase, gjatfjare, gləsa, glaffa:, inglakia:re, ingetsa, brutfare, kuame, kemar, kremare, kujmare, kejmaue, kroma, flamma:re, flamear, fjammare, flama, arde:re, audu, arder, ardere, audeu, arde, flagra:re, flague, flagrar, flagrare, flaguau, flagrar, intsendjare, îsendrar, îsedjar, ustolare, ustura, tantus, tanto, tant, tanc, al guno, alkuno, awgũ, ałgũ, alter, altro, altrə, altri, alt, alius, aw, ał, magnum, mapo, mappo, grandem, grande, grande, gran, grant, mare, largum, larz, laryo, largo, largu, largu, ƙark, lark, larg, lato, latu, lat, amplum, ant o, ampjo, amplə, grawis, grave, grabe, gravi, gravi, grav, pe:sant, pesado, pesante, pezadu, pizadu, pozat, pezant, angustus, angosto, angusto, etzwa, delyado, delikato, dewgadu, delyaðu, delikat, dewat, destra, duas, kwattwor, kate, kwatro, kwattro, kwatru, kwatre, kwat, kwatri, patru, aki, la, aja, ελα, ai, kwa, kwando, kwando, kwand, kwand

28	t	embra, fembra, muxer, muker, ombre, muxer, muker, mariðo, maridu, meriðu, marit, maðre, marə, paðre, parə, paxaro, paseru, pasəre, serpjente, sirpēti, ſarpe, sjerpe, serp, ſarpe, berme, vermi, verm,
		arβol, albero, arvori, arvuri, abrə, par, fruto, frute, frujt, flor, fjore, floare, pər, nariθ, naris, nerif,
		gurə, soare, estreja, istrele, iftrele, mar, treves, tənebrəs, ffer, nombre, beber, bere, biβer, bewrə,
		komer, kumer, mandukar, mandyare, mezar, morðer, murðer, moskar, morsikare, sugar, kuſpir,
		eskupir, esputar, sputare, saber, seber, konoθer, kupiser, kwidar, kuzitar, pensar, pensare, pēsar,
		temer, timer, tremer, tremes, trimer, dormir, durmir, bibir, viver, biwrə, morir, muser, muri, anegar,
		matar, metar, utstidere, pupar, batir, beter, batrə, kaθar, kesar, puxar, pusar, segar, sɨγar, kortar,
		kurtar, taxar, tɐʎar, dibidir, diviðir, ender, feder, fendrə, partir, pertir, separar, separar, sɨperar, səpəra, püʒir, raer, ʁɐer, rawrə, rasar, ʁɐzar, raskar, ʁɐʃkar, kusar, kabar, kɐvar, eskabar, iʃkɐvar,
		nadar, nwotare, neðar, nabegar, neviyar, bolar, volare, vwar, zvolare, zbura, kaminar, kamminare,
		kumipar, andar, redar, henir, venire, vir, ekstender, isteder, əstendrə, jaθer, daffe:re, zuzer, zawrə,
		ser, sentar, setar, estar, jebar, livar, alθar, alsar, tornar, turnar, xirar, chirare, zirar, zira, birar,
		virare, virar, bira, torθer, kaer, kadere, kvir, tumbar, tõbar, tener, tenere, ter, segurar, sigurar,
		siyurar, ekspremir, əspremə, serar, sərar, θerar, sikar, apretar, epirtar, estrepir, əstrepə, fregar,
		fraga, iffrigar, iffriyar, frotar, frisar, frasa, laβar, levar, estarsir, enxugar, efugar, efuyar, limpjar,
		lîpar, tirar, ffira, tira, traze, trezer, trewre, effar, zejtar, landar, lêsar, arankar, arunka, legar, atar,
		etar, koser, kuzer, kontar, kõtar, enumerar, enumera, deθir, dizer, kantar, këtar, ludir, xugar, zuyar,
		flugtwar, flutuar, fluir, flwir, kolar, kuar, eskurir, iskurer, skurer, korer, kurer, kuree, elar, zilar,
		kemar, kejmare, flamear, arder, erder, arde, flagrar, flagrar, enθender, īsendījar, īsēdjar, ənsendrə,
		otro, owtru, altrə, grande, gredi, gredi, mare, laryo, largu, λark, grabe, gravi, gravi, grew, grew,
		lerdo, korto, kurtu, kurt, brebe, brevi, brevi, brew, estreffo, istrejtu, istrejtu, əstret, djestro, destru,
		destru, destra, dereffo, direjte, dret, drept, rosu, bermexo, virmejku, berde, verdi, vert, verde, tres,
		tref, kwatro, kwatru, kwatrə
29	я	femer, femjr, donr, ispozr, mriiðu, bisr, pasru, sεlvr, frutr, kawdr, penr, krβelu, kabesr, krβesr,
		teste, teste, neris, boke, lue, istrele, istrele, agwe, suve, tere, kelizej, nevwe, treves, fumase,
		enu, līgwe, seber, metar, beter, kesar, teλar, pertir, siperar, keer, kezar, keſkar, kevak, kevar,
		iskevak, iskevar, nedar, neviyar, keminak, keminar, zezek, zezer, keir, epirtar, levar, trezer, etar,
20		erder, direjte, direjte, dues, dues, eki, ei
30	œ	fœm, dœm, flœв, gœl
31	ε	femine, ef a, pes, peho, utfello, utfello, utfello, serpe, verm, vjer, vjer, sewva, selve, kode, plume,
		pen, penə, pene, pel, kəbeλ, ∫əve, tet, testa, teste, teʃte, tʃes, teste, bɔce, əstel, stele, meʁ, sel, terra, teʁe, terə, tjere, nevwe, tenebʁ, trevɐʃ, sjel, tʃelo, sew, sel, vento, ʒel, ʤelo, ʒeł, lenge, bewrə, səβε,
		konetu, kuneso, teisi, tejii, fendere, fendro, nechii, merchere, estendere, etu, es, spremere, sere,
		əstrepə, strengi:, terdere, tueu, trewrə, əmpepə, dete, intendiare, greve, grevi, buef, breve, brevi,
		brevi, əstret, stret, delyaðu, destro, destru, destra, dret, dret, vermej, bərmeλ, vert, ver, vert,
		tres, ke, e
32	1	mulierem, mulier, animalia, alimana, nema:l, awikellum, uttfello, utfjel, peduklus, pedoli, arßol,
		albero, arbul, silwa, selba, selva, selve, pa:lus, pal, palo, pa:l, flo:rem, flœʁ, flor, floʁ, flɔ, flø:ʁ, flo:r,
		floare, kola, plu:ma, plym, pluma, plomə, plom, plume, pilus, pwal, pelo, pelu, pɨlu, pɛl, pe:l,
		kapillus, kapello, kabelu, keβelu, gula, gœl, gola, gola, gola, gole, a:la, el, ala, ala, ale, so:lem, sol, sole, sol,
		sələ, solikulus, səlɛj, soreli, lu:na, lyn, luna, luɐ, løn, lune, lunə, ste:lla, etwal, stella, istrelɐ, iʃtrelɐ,
		əstel, stø:l, stele, pluwia, plqi, pluzə, plu:ʁ, ploje, ploaje, flu:men, flumi, flumi, flum, lakum, lak,
		lago, lago, lagu, layu, la:t, sa:lem, sɛl, sal, sale, sa:l, ka:li:ginem, kalina, kalid;ine, kalizēj, kɐlizɐj̃,
		nebula, njoly, njebla, newlə, tinjeblas, kajlum, sjɛl, θjelo, ʧɛlo, sɛl, ʧiːl, gelu:, ʒɛl, jelo, ʤɛlo, lingwa,
		lãg, lengwa, lingwa, lĩgwe, lẽu, lɛngɛ, limbə, pulsa:re, pulsa:, pulsa:, pulsa, ta:lia:re, jugula:re,
		zygyle, jugula:re, ça:vle, wola:re, vole, bolar, volare, bula, vole, zvolare, zvola:, leva:re, ləve, levare,
		levar, livar, leva:, lua, altia:re, alθar, altsare, əlsa, altʃa:, lawa:re, lave, laβar, lavare, levar, lava:, la,
		limpida:re, limpjar, līpar, pulsa:, lankea:re, lɑ̃se, lantfare, lɛ̃sa, lɛ̃sar, lanci:, lantfa:, liga:re,
		lie, legar, legare, loji:, lea:, lega, lu:dere, ludir, flu:ktua:re, flyktye, flugtwar, fluttuare, flutuare,
		flutuar, fluktua, fluctua, fluita:re, fluitare, fluere, flye, fluir, fluire, flwir, flui, ko:la:re,
		kule, kolar, kolare, kole, gela:re, zəle, elar, dzelare, zɨlar, zəla, dzale, glakia:re, glase, gləsa, glatfa:,
		inglakia:re, buyle, bu:le, flamma:re, flage, flamear, flagra:re, flague, flagrare, flaguau,
		flagrar, ustula:re, ustolare, multus, molto, mol, molc, mult, alguno, alkuno, əlgu, alter, altro, altro,
		altri, alt, alius, longum, lõ, longo, lungo, lõgu, lõ, lunk, lung, largum, larg, largo, largo, largu, largu,
		lark, larg, la:tum, le, lato, latu, lat, amplum, ãpl, amplə, lurdus, luß, lerdo, lordo, pitulus, pikkolo, pitul, de:lika:tus, delyaðo, delikato, dəlikat, subti:lem, sutil, sottile, suptil, suti:l, vermikulus, illa:k,
		pigui, de:iika:tus, deivaoo, deiikato, daiikat, subti:iem, sutii, sottiie, suptii, sutii, vermikuius, iiia:k, la
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2.2		1 1
33	r	mulierem, mui:r, mujere, mulier, mui:r, mujere, mari:tus, marito, mari:t, mərit, ma:trem, ma:dre,
		mari, patre, pa:dre, pe:r, pari, passerem, passero, serpentem, serpente, sərpen, sarpint, serpens,
		serpe, wermem, verme, vjer, vjerme, arborem, arbul, arbore, fru:ktus, frutto, frut, frukt, flo:rem,
		flo:r, nariffe, na:rīs, soreli, ri:wus, rio, riw, ri:w, ri:pa:ria, rivi:ʁ, mare, mar, ma:r, sare, terra, tjera,
		tɛrra, tɛrə, tjɛre, tsarə, negurə, tene:braj, tɛ:nebre, tene:bra:s, tɛ:nebre, ʤer, bibere, komedere,
		manduka:re, morde:re, mordere, mwardi, morsika:re, morsikare, musəgar, murseka, su:gere,
		konspuere, sputere, ski:re, sapere, koqno:skere, konoffere, ko:qita:re, kod;itare, pe:nsa:re, time:re,
		temere, tremere, tremare, trima:, dormi:re, dormire, durmi, durmi; dormi, wi:were, vivere, morire,
		muri:, muri, neka:re, annegare, tu:ta:ri, makta:re, okki:dere, pugna:re, puppare, battuere, battere,
		kaptia:re, kattfare, pulsa:re, pulsare, seka:re, segare, kurta:re, ekskurta:re, skortare, skurta:, skurta,
		ta:lia:re, taλλa:re, di:widere, dividere, skindere, ∫indere, findere, parti:re, parti:re, parti;
		parti:, se:para:re, separare, separa:, separa, pungere, pundere, jugula:re, jugula:re, ra:dere, raec,
		radere, rawrə, rada:, rade, rasar, rasare, rəza, rasa:, raskar, rəska, fodere, kawa:re, kavare,
		ekskawa:re, skavare, nata:re, naviga:re, navigare, wola:re, mergere, merckere, mercke, ambita:re,
		andare, weni:re, ekstendere, estɛndere, jake:re, dzere, sede:re, sedere, sedenta:re, sta:re, stare, leva:re,
		levare, altia:re, altsare, torna:re, tornare, turna, tu:rne, torna:, turna, gyra:re, &ira:e, &ira:, vira:e,
		tork <sup>w</sup> e:re, tɔrʧere, turser, tɔrsə, to̞arʧe, kadere, kawrə, tene:re, eksprimere, sprɛmere, i∫prəmeв,
		i∫prəmer, esprimi, skreme, serrere, serar, səra, serare, θerar, serrare, appektora:re, stringere,
		strindere, ə∫trīʒir, ə∫trīʒir, stringe, strɛngi:, strinde, frika:re, fregare, froj, frea, freka, frikta:re,
		frettare, frisar, lawa:re, lavare, tergere, terdere, ekstergere, əstərzi, sterde, eksu:ka:re, assugare,
		limpida:re, tira:re, tirare, tire, tira:, trahere, trarre, traj, tradge, impingere, impindgere, jakta:re,
		dettare, lankea:re, lantfare, e:runka:re, aranka:, arrontfare, liga:re, legare, apta:re, ko:nsuere,
		kutfire, komputa:re, kontare, e:numera:re, enumerare, numara, di:kere, dire, ekspo:nere, sporre,
		kanta:re, kantare, lu:dere, joka:re, dokare, flu:ktua:re, fluttuare, fluita:re, fluitare, fluitere, fluire,
		ko:la:re, kolare, ekskurrere, eskurir, skorrere, əskorə, skori:, kurrere, korer, korrere, korə, kori,
		gela:re, delare, glakia:re, gjatfjare, inglakia:re, brutfare, bruza:, krema:re, kremare, krəma,
		flamma:re, fjammare, arde:re, ardere, flagra:re, flagrare, inkendere, intsendjare, ustula:re, ustolare,
		ustura, alter, altro, altri, grandem, grande, gran, grant, majjorem, largum, largo, lark, larg, grawis,
		greve, grav, grevi, lurdus, lordo, kurtus, korto, kurt, brewis, breve, striktus, stretto, stret, strimt,
		mərunt, subtsire, dekstrum, destro, di:re:ktus, destra, direjte, drø:t, dret, ruber, rubro, russus, roxo,
		rosso, ros, ros, vermikulus, vermiλλο, bərmελ, rubeus, rubjo, robbjo, rubeo, ruʤe, roʧ, rojb, wiridem,
		verde, vɛrt, tre:s, tre, trɛs, trø:, trei, trej, kʷattwor, kwattro, kwatri, patru
34	X	muxer, muxer, paxaro, pjoxo, puxar, taxar, xirar, enxugar, xita, xugar, roxo, bermexo
35	Á	moλλe, muλeκ, muλer, muλe, moλλe, muλeκ, muλer, muλe, useλ, pioλu, poλ, kəbελ, λunə, λak,
		taλλa:re, taλaʁ, tɐʎaɾ, təʎa, λəba, λənsa, λiɣa, λοŋ, λaɾk, vermiλλo, veʁmeʎu, vɨɾmɐjʎu, bərmɛʎ,
		э́ла
36	R	muker, muker, mari, mer, per, serpa, serbetti, sierpe, ver, vermi, arpr, arvori, frai, flor,
		flø:k, plu:k, ky, kiw, kiu, kivjek, rivi:k, mek, mak, mek, tek, teke, teke, teke, teke, teke, teke, teke, bwak, bebek,
		bø:k, mëzak, morder, morder, sugar, kuspir, savwar, saber, konetr, koneser, kuzitar, pësar, temer,
		kuedu, tremeu, doumiu, doumiu, dwaumi, vivu, viveu, muuiu, moueu, muuer, matau, oksiu, batu,
		bates, kasas, pusas, segas, kostas, ekuste, tasas, dividis, fãds, fēdes, pastis, pastis, səvse,
		separau, pwēdu, pūziu, uaeu, uver, uaze, uazau, uverar, uaskau, uveskar, fwiu, kuvau, iskuvau, nadau,
		naviyau, voau, keminau, mausse, edau, voniu, viu, etadu, istedeu, zeziu, zezeu, swau, seu, etu, levau,
		tuune, tounau, ziue, viue, toudu, swau, tõbau, təniu, teu, sigurau, epueedu, isprəmeu, seua, seue, siuar,
		etuedu, fueje, fuote, tiue, tueu, kudu, enumeue, diu, diu, zogau, flutuau, flwiu, koau, iskoueu, kuuiu,
		kouer, kurer, bryle, bra:le, krame, kejmare, ardr, arder, flagre, flagrar, otr, gra, gra, largu,
		grav, lur, kur, kurtu, ku:r, brεf, bref, etrma, strø:, drmat, ru, rolα, rermej, vermeju, ruz,
		ver, ver, trwa, katr
37	i:	mui:r, mui:r, mari:tus, mari:t, ri:wus, ri:pa:ria, rivi:ʁ, ka:li:ginem, si:ʁ, ʧi:l, maṇi:, sysi:, ski:re,
		dormi:re, durmi:, wi:were, muri:, okki:dere, ffesi:, teji:, di:widere, parti:re, parti:, necki:, ma:Rffi:,
		weni:re, vini:, hɔ:si:, strengi:, pu:si:, lanci:, lɔji:, di:kere, di:ʁ, di:, skori:, subti:lem, suti:l, di:re:ktus,
		kwi:nkwe, ekkumhi:k, ibi:, ki:, si:k
38	n	dona, nino, alimana, pena, pena, ano, an, manza, mani:, koneser, kuniser, konosi, punar, punnare,
	J-	puna, puni, keminar, keminar, vini:, estrenir, əstrenə, əmpenə, onni, mano, manno, pekeno
39	oa	doamna, floare, coada, soare, ploaje, kunoaste, toarte, coase
40	h	hominem, homo:, pɛhõ, u:hɛ:, kinɔh, hɔ:si:, trahere, ekkumhi:k
41		oměj, oměj, neněj, kalizěj, kěj, něj
	ẽj̃ õ	
42	Э	õ, nõ, kõspye, lõ, nõ

43	ã	ãfã, ɛfã, seupã, vã, ã, lãg, mãze, pãse, fãdu, etãdu, lãse, ∫ãte, flãbe, ɛ̃sãdje, guã, guã, ãpl,			
		pəzã, kã, kəmã			
44	ĩ	ĩf ẽfi, ĩf ẽti, lĩgwe, ə∫trĩzir, ə∫trĩzir, lĩpar, ĩsendziar, ĩsẽdjar, sĩku			
45	ã	îfētfi, īfēti, mēzaв, mēzar, ēdaв, ēdar, lēsa, lēsar, kētar, tētu, tētu, grēdji, grēdi, ēʃu, kwēdu			
46	ţſ	îfēţi, soţo, utţello, uţjel, sexpēţi, ţivja, ţes, nariţe, ţeaţə, ţelo, ţi:l, ţer, maţa:, utţidere, uţide, katţare, ţesi:, caţa:, paxţix, ţimine, ma:xţi:, &aţe:re, zəţea, torţere, toarţe, ţe:r, ţjade, ţira, eţar, lanţare, lanţa:, arronţare, kuţire, ziţe, ţate, gjatţjare, glaţa:, bruţare, inţendjare, inţindze, muţo, anţo, piţţino, piţul, estreţo, suţiw, dereţo, roţ, ţiŋkwe, ţiŋk, ţinţ, ţine, ţe, ţemu:t			
47	i	ĩf ẽti, i spoze, i spozu, pejsi, avi, sirpẽti, vermi, arvuri, pilu, i strele, flumi, riw, vint, nomi, biβer, minka, kupiser, trimer, trimer, siγar, siperar, naviγar, neviγar, i star, livar, sigurar, siγar, siβar, epirtar, strindze, i sfrigar, i srindze, i mpindze, kinta, zilar, ingetsa, insindze, grēdi, gravi, pizaðu, pikenu, brεvi, ingust, i strimt, virmej κu, verdi, ki, kind			
48	p	sponsa, epuz, esposa, spoza, ispoza, ifρoze, əspozə, sponsus, epu, esposo, spozo, ispozu, ifρozu, əspos, spois, patre, pee, paŏre, paidre, paj, parə, peir, pari, piskem, peθ, peffe, pejfi, pejfi, pef, pes, pefte, pwasō, pehō, passerem, paxaro, passero, paseru, pasəre, peduklus, pu, pjoxo, pidokkjo, pioʎu, poʎ, pju, pedoli, pədukje, serpentem, seɐpɑ̃, serpjente, serpente, seɐpɑ̃ti, sirpɑ̃ti, sərpen, sjeɐpɛ, sarpint, farpe, serpens, sjerpe, serpe, serp, farpe, pailus, pal, palo, paw, pail, par, pluma, plym, pluma, pjuma, plomə, plom, plume, penna, pen, pena, pene, pene, pene, panə, pilus, pwal, pelo, pelu, pilu, pel, peil, pər, kapillus, kapello, kapitia, kap, apə, pluwia, plqi, pjodʤa, pluʒə, pluɪə, ploje, ploaje, ri:pairia, konspuere, kɔ̃spye, kuspiʁ, kuʃpir, eskupir, əskupi, skujpa, sputere, esputar, sputare, spudai, sapere, pe:nsaire, pɑ̃se, pensair, pensare, pēsair, pəsaa, pɛ̃se, peŋsair, pəsa, pugnaire, punar, punnare, puna, kaptiaire, pulsaire, puse, puxar, pulsare, puʃar, puʃar, pulsai, pulsai, partiire, paɪtiɪ, partiɪ, partiɪr, se:paraire, separaire, separare, separair, siperar, səpəra, separair, separare, punagere, pwɛ̃dʁ, pund̞ere, puʒiʁ, pūʒir, puni, pund̞e, eksprimere, epʁɛ̃dʁ, ekspremir, sprɛmere, iʃprəmeʁ, iʃprəmer, əspremə, esprimi, appektora:re, apretar, vpirtar, limpida:re, limpjar, līpar, puse, pu:si., pulsa:, impingere, impind̞ere, əmpɛnə, impind̞e, apta:re, komputa:re, ekspo:nere, sporre, spune, paukus, pø, poko, poko, powku, pɔk, pō, po:k, amplum, ɑ̃pl, ampjo, amplə, pe:sant, pəzɑ̃, pesaðo, pesante, pezadu, pɨzaðu, pəzat, pezant, pittitus, pəti, pətit, piti, pittinus, pekeno, pitʃino, pekenu, pɨkenu, putsin, pitulus, pikkolo, pifʃul, suptil, drept, patru			
49	Z	epuz, spoza, ispoza, ispoze, espoze, spozo, ispozu, ispozu, wazo, kaze, kazak, kezar, reza, zjava:, zvolare, zvola:, zbura, zezik, zezek, zezer, zeffea, traze, trezer, kuzer, kuzi, kø:z, kuzi, dizer, ziffe, bruza:, pezadu, pizaðu, pezat, pezant			
50	ð	mariðo, meriðu, maðre, paðre, morðer, murðer, diviðir, neðar, toðu, pesaðo, pɨzaðu, miuðu, delγaðo, dεlγaðu			

51	k	sokius, piskem, awikellum, peduklus, pidokkjo, pədukje, fru:ktus, frukt, kauda, kø, kola, koda,	
31	K	kawde, kua, kow, kode, kapillus, kabejo, kapello, kabelu, keβelu, kəbελ, kapitia, kaβeθa, kavettsa,	
		kabese, keβese, kap, bukka, boka, bokka, boke, boke, boke, boke, solikulus, akkwa, lakum, lak, Λak,	
		ka:li:ginem, kalina, kalidine, kalizēj, kelizēj, kajkia, kajlum, fokum, fwoko, fok, fu:k, fok,	
		komedere, komer, kome, kumer, manduka:re, manduka:, minka, morsika:re, moskar, morsikare,	
		murseka, konspuere, kõspye, kuspir, kuspir, eskupir, əskupi, skujpa, skire, kogno:skere, konstr,	
		konoθer, konosser, koneser, kuniser, kuniser, kunoh, konosi, kunoaste, koigitaire, kuide, kwidar,	
		kodgitare, kuzitar, kuzitar, kujda, kudzeta, kuedu, neka:re, neka, makta:re, okki:dere, эksiв, uksi,	
		kaptia:re, kaθar, kattfare, kasar, kesar, kesa, seka:re, kurta:re, kortar, kortar, kurtar, ekskurta:re,	
		ekuʁte, skortare, skurta:, skurta, skindere, raskar, ваʃkaв, ввʃkar, rəska, kosaɹ, kusar, kawa:re,	
		kabar, kavare, kevar, kevar, kəba, ekskawa:re, eskabar, skavare, ifkevar, ifkevar, kaminar,	
		kamminare, kemipar, kemipar, kemina, ekstendere, ekstender, ekstinde, jake:re, kadere, kaer,	
		kadere, kvir, kawrə, kədea, eksprimere, ekspremir, skreme, appektora:re, frika:re, freka, frikta:re,	
		ekstergere, eksu:ka:re, uska, jakta:re, lankea:re, e:runka:re, arankar, aruŋka, ko:nsuere, kudʁ, koser,	
		kutsire, kuzer, kuzi, kø:z, kuzi, komputa:re, kõte, kontar, kontare, kõtar, kumta, konta:, di:kere,	
		ekspo:nere, kanta:re, kantar, kantare, ketar, kenta, kinta, joka:re, dokare, zuka, flu:ktua:re,	
		flyktye, fluktua, ko:la:re, kule, kolar, kolare, koar, kula, kole, ekskurrere, eskurir, skorrere,	
		iskoueu, iskurer, əskorə, skori;, skurdze, kurrere, kuuiu, korer, korrere, koueu, kuuer, korə, kori,	
		kurʤe, glakia:re, inglakia:re, krema:re, kʁame, kemar, kremare, kɐjmare, kejmaʁe, krəma, inkendere, okœ̃, alkuno, pau̯kus, poko, pɔko, powku, pɔk, poːk, lunk, ʎaɾk, lark, pekeno, pekenu,	
		pikenu, pikkolo, kurtus, kus, korto, korto, kustu, kurtu, kurt, kus, kurt, striktus, de:lika:tus,	
		delikato, dəlikat, dekstrum, di:re:ktus, vermikulus, katı, kwatıo, kwatıro, kwatıru, kwatıə, kwat,	
		kwatri, sẽk, θinko, ʧiŋkwe, sĩku, siŋk, ʧiŋk, ekkumhi:k, aki, kwi, ɐki, illa:k, ki, ki:, kwi, kjen, kẽj,	
		këj, kwa, ke, ki, ke, kwe:, kã, kwando, kwëdu, kwan, kwand, kwant, kind, komã, komo, kome,	
		komu, kom, komž, kum, nek, si:k	
52	ts	sots, tsarə, altsare, tsine, ingetsa, putsin, subtsire	
53	a:	ma:trem, ma:dre, pa:dre, nema:l, pa:lus, pa:l, ca:f, na:sus, na:so, na:s, na:rɪs, a:la, ri:pa:ria, la:t, ma:r,	
		sa:lem, sa:l, ka:li:ginem, tene:bra:s, fu:ma:ta, fuma:ta, manduka:re, manja:, morsika:re, cuca:, spuda:,	
		ko:gita:re, pe:nsa:re, peŋsa:, trima:, neka:re, tu:ta:ri, makta:re, maʧa:, pugna:re, kaptia:re, caʧa:,	
		pulsa:re, pulsa:, seka:re, sea:, kurta:re, ekskurta:re, skurta:, ta:lia:re, ta/λa:re, taja:, se:para:re, separa:,	
		jugula:re, jugula:re, ra:dere, rada:, rasa:, kawa:re, java:, ekskawa:re, zjava:, nata:re, nada:, naviga:re, naviga:, wola:re, zvola:, camina:, ma:ntʃi:, ambita:re, sedenta:re, senta:, sta:re, sta:, leva:re, leva:,	
		altia:re, altsa:, torna:re, torna:, gyra:re, dgira:, appektora:re, frika:re, frikta:re, lawa:re, lava:,	
		eksu:ka:re, suja:, limpida:re, tira:re, tira:, pulsa:, jakta:re, lankea:re, lanfa:, e:runka:re, liga:re, lea:,	
		apta:re, komputa:re, konta:, e:numera:re, kanta:re, canta:, joka:re, ʤuja:, flu:ktua:re, fluita:re,	
		ko:la:re, gela:re, glakia:re, glatfa:, inglakia:re, bruza:, krema:re, flamma:re, flagra:re, ustula:re,	
		la:tum, de:lika:tus, illa:k	
54	ĕĵ	mēj, kelizēj, kēj, nēj	
55	R	mer, vjer, fry, savø:r, mori, po:rti, ma:rfi:, fe:r, sorar, sere, iskurer	
56	aj	paj, ajywə, tene:braj, kajkia, kajlum, nwaje, traj, majjorem, duaj	
57	:3	peir, uihei, eiw, teiß, teinebre, teinebre, feir, kwei	
58	θ .:	peθ, kaβeθa, nariθ, θjelo, konoθer, kaθar, jaθer, alθar, torθer, θerar, lanθar, deθir, enθender, θinko	
59 60	ej ni	pejji, cavej, zejtar, kejmake, istrejtu, trej	
61	ej õ	pejʃi, kejmare, iʃtrejtu, direjte, direjte, virmejʎu pwasõ, pehõ, nõ, tõbe, tõbaʁ, tõbar, kõte, kõtar, põ, õt, lõgu, lõ, õ	
62	ě	sespēfi, sirpēti, sjespē, vētu, vē, pēsas, pēsar, ksēds, fēdes, fēdes, istēdes, iftēder, sētar, ēsugar,	
02	·	esupegi, sinperi, sjedpe, vera, ve, pesad, pesad, neded, reded, reded, reded, reded, setat, ej agar, esupegi, siedjar, sek, në	
63	β	arβol, keβelu, kaβeθa, keβese, biβer, səβε, laβar	
64	ł	setve, sot, zet, atsa, atsar, kuta, ftama, atgũ, at, detyaðu	
65	Ч	fвųi, plųi, kųide, tųe, esųije, flyktųe	
66	ø:	flø:ʁ, gø:j, stø:l, fø:, bø:ʁ, savø:ʀ, kø:z, stʁø:, drø:t, dø:, trø:	
67	aŭ	kauda, paukus	
68	Ø	kø, ∫əvø, løn, fø, pø, dø	
69	c	coadə, cavej, ca:f, bocε, cuca:, catfa:, camina:, lanci:, coase, canta:, fluctua, molc, tanc	

70	g	gula, gola, gola, gole, gura, age, lago, lenge, pugna:re, segar, segare, jugula:re, naviga:re, naviga:, mergere, gyra:re, stringere, stringe, strengi:, fregare, impingere, lega, xugar, glaffa:, ingetsa,		
		flaguau, alguno, magnum, grandem, gran, guã, grant, longo, lung, largum, larg, grav, grevi, grew,		
7.1		ingust		
71	ə	golə		
72	εj	solej, fueje, veumej		
73	ea	stea, ffeaffə, bea, zəffea, ∫edea, kədea		
74	$k^{w}$	ak <sup>w</sup> a, tork <sup>w</sup> e:re, k <sup>w</sup> attwor, k <sup>w</sup> i:nk <sup>w</sup> e, k <sup>w</sup> is, k <sup>w</sup> em, k <sup>w</sup> id, k <sup>w</sup> ando:, k <sup>w</sup> o:modo		
75	Y	aywa, ajywə, layu, foyu, musəya, siyar, səya, naviyar, neviyar, siyurar, iffriyar, ẽ∫uyar, Λίγα, zuyar, laryo, delyaðo, dεlyaðu		
76	ŋ	aŋ, nɔŋ, leŋgwa, maŋɟa:, peŋsa:, aɾuŋka, ʎoŋ, ɨŋgust, uŋ, ʧiŋkwe, siŋk, ʧiŋk		
77	$g^{w}$	$\mathrm{ling^w}$ a		
78	ēu	leu		
79	α	bwar, taje, raze, trwa		
80	Ŧ	manja:, java:, zjava:		
81	$\tilde{\epsilon}$	pɛ̃se, sɛ̃de, fɛ̃t, pwɛ̃dʁ, epʁɛ̃dʁ, etʁɛ̃dʁ, ɛ̃sɑ̃dje, kɔmɛ̃		
82	э:	po:rti, ho:si:		
83	ũ	pũʒiʁ, pũʒiɾ, mũj̃tu, awgũ, ałgũ, ũ		
84	J.	kosa.Į		
85	ç	ça:vle		
86	a:	ça:vle		
87	ĩ	mũjtu		
88	œ̃	okœ̃, œ̃		
89	ប	Ro∫Ω		
90	ŵÿ	nēw		

# Latin

Compate	ID A	Caunda
Cognate	IPA	Sounds
	-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	h-omo:	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
Snake	s-erp-entem	s-ay-r-p-ay-n-t-ay-m
Snake-Serpens	s-erpens	s-ay-r-p-ay-n-s
Worm	wermem	w-ay-r-m-ay-m
Tree	arborem	ah-r-b-oh-r-ay-m
Forest	silwa	s-e-l-w-ah
Stick	pa:lus	p-A-l-u-s
Fruit	fru:-ktus	f-r-U-k-t-u-s
Flower	flo:rem	f-l-O-r-ay-m
Tail	kauda	k-au_diphthong-d-ah
Feather	plu:ma	p-l-U-m-ah
Feather-Penna	penna	p-ay-n-n-ah
Hair	p-ilus	p-e-l-u-s
Hair-Capillus	kapillus	k-ah-p-e-l-l-u-s
Head	kapi-tia	k-ah-p-e-t-e-ah
Head-Testa	testa	t-ay-s-t-ah
Nose	na:sus	n-A-s-u-s
Mouth	bukka	b-u-k-k-ah
Mouth-Gula	gula	j-u-l-ah
Wing	a:la	A-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	1-U-n-ah
Star	-st-e:lla	s-t-ai-l-l-ah
Water	a-k <sup>w</sup> -a	ah-kw-ah
Rain	plu-wia	p-l-u-w-e-ah
River	flu:men	f-l-U-m-ay-n
River-Rivus	ri:wus	r-E-w-u-s
River-Riparia	ri:p-a:ria	r-E-p-A-r-e-ah

Lake	lakum	l-ah-k-u-m
Sea	mare	m-ah-r-ay
Salt	'sa:lem	s-A-l-ay-m
Earth	t-erra	t-ay-r-rah
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
lce	'gelu:	g-ay-l-U
Smoke	fu:mus	f-U-m-u-s
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 <sup>w</sup> -a	l-e-n-gw-ah
ToDrink	'bib-ere	b-e-b-ay-r-ay
ToEat	komedere	k-oh-m-ay-d-ay-r-ay
ToEat-Manducare	manduka:re	m-ah-n-d-u-k-A-r-ay
ToBite	m-orde:re	m-oh-r-d-ai-r-ay
ToBite-Morsicare	morsika:re	m-oh-r-s-e-k-A-r-ay
ToSuck	su:gere	s-U-g-ay-r-ay
ToSpit	konspuere	k-oh-n-s-p-u-ay-r-ay
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-Curtare ToCut-Excurtare	ekskurta:re	ay-k-s-k-u-r-t-A-r-ay
ToCut-Excurtare ToCut-Taliare	ta:-lia:re	•
	di:widere	t-A-l-e-A-r-ay
ToSplit	skindere	d-E-w-e-d-ay-r-ay
ToSplit-Scindere	skindere	s-k-e-n-d-ay-r-ay
ToSplit Portire		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-lugulare	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

TaDia Cayara	1	11 A
ToDig-Cavare ToDig-Excavare	kawa:re ekskawa:re	k-ah-w-A-r-ay
· ·		ay-k-s-k-ah-w-A-r-ay
ToSwim Novinces	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-ede:re	s-ay-d-ai-r-ay
ToSit-Sedentare	sedenta:re	s-ay-d-ay-n-t-A-r-ay
ToStand	-sta:re	s-t-A-r-ay
ToStand-Levare	leva:re	1-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	torkwe:re	t-oh-r-kw-ai-r-ay
ToFall	k-adere	k-ah-d-ay-r-ay
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
ToSqueeze-Serare	se-rare	s-ay-r-ah-r-ay
ToSqueeze-Appectorare		•
	appektora:re	ah-p-p-ay-k-t-oh-r-A-r-ay
ToSqueeze-Stringere	-stringere	s-t-r-e-n-j-ay-r-ay
ToRub	frika:re	f-r-e-k-A-r-ay
ToRub-Frictare	frikta:re	f-r-e-k-t-A-r-ay
ToWash	lawa:re	l-ah-w-A-r-ay
ToWipe	tergere	t-ay-r-g-ay-r-ay
ToWipe-Extergere	ekstergere	ay-k-s-t-ay-r-g-ay-r-ay
ToWipe-Exsucare	eks-uːk-aːre	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	1-e-g-A-r-ay
ToTie-Aptare	apta:re	ah-p-t-A-r-ay
ToSew	ko:n-suere	k-O-n-s-u-ay-r-ay
ToCount	komputa:re	k-oh-m-p-u-t-A-r-ay
ToCount-Enumerare	e:numera:re	ai-n-u-m-ay-r-A-r-ay
ToSay	di:kere	d-E-k-ay-r-ay
ToSay-Exponere	ekspo:nere	ay-k-s-p-O-n-ay-r-ay
ToSing-AncestralClass	kanta:re	k-ah-n-t-A-r-ay
ToPlay-Ludere	lu:dere	l-U-d-ay-r-ay
ToPlay-Jiocare	jo-ka:re	jg-oh-k-A-r-ay
ToFloat	flu:ktua:re	f-l-U-k-t-u-A-r-ay
ToFloat-Fluitare	fluita:re	f-l-u-e-t-A-r-ay
		•
ToFlow Colors	fluere	f-l-u-ay-r-ay
ToFlow-Colare	ko:la:re	k-O-l-A-r-ay
ToFlow-Excurrere	ekskurrere	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-kiaːre	g-l-ah-k-e-A-r-ay

Ta Francia Inglania :-	:1-1-:	1 -1 1 A
ToFreeze-Inglaciare	inglakia:re	e-n-g-l-ah-k-e-A-r-ay
ToBurn-Cremare	krema:re	k-r-ay-m-A-r-ay
ToBurn-Flammare	flamma:re	f-l-ah-m-m-A-r-ay
ToBurn-Ardere	arde:re	ah-r-d-ai-r-ay
ToBurn-Flagrare	flagra:re	f-l-ah-g-r-A-r-ay
ToBurn-Incendere	inkend-ere	e-n-k-ay-n-d-ay-r-ay
ToBurn-AncestralClass8	ustula:re	u-s-t-u-l-A-r-ay
All	omne:s	oh-m-n-ai-s
All-Totus	to:-tus	t-O-t-u-s
Many	multus	m-u-l-t-u-s
Many-Tantus	tantus	t-ah-n-t-u-s
Few	paukus	p-au_diphthong-k-u-s
Other	alter-	ah-l-t-ay-r
Other-Alius	alius	ah-l-e-u-s
Big	magnum	m-ah-j-n-u-m
Big-Grandem	grandem	j-r-ah-n-d-ay-m
Big-Majjorem	majjorem	m-aj_diphthong-jg-oh-r-ay-m
Long-Longum	'lo-ngum	l-oh-n-g-u-m
Long-Largum	largum	l-ah-r-j-u-m
Wide	ˈlaːtum	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
Right-Dextrem	d-ekstrum	d-ay-k-s-t-r-u-m
Right-Directum	di:r-e:ktus	d-E-r-ai-k-t-u-s
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-n-u-m
	'u:num	
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	kw-attwor-	kw-ah-t-t-w-oh-r
Five	'kwi:nkw-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	kw-is	kw-e-s
Who-Quem	kw-em-	kw-ay-m
What	'kw-id	kw-e-d
When-Quando	kw-ando:	kw-ah-n-d-O
How-Quomodo	'kwo: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
1		gzah-aah
We	უə nu	gzan-aan n-u
YouPlural		v-u
YouSingular	vu	t-eeh
	ty	
Woman Domina	fa-m	f-ah-m
Woman-Domina	dam	d-ah-m
ManHumanBeing	-ɔm	euh-m
ManHumanBeing-Homo	ô - o-	oon
Child	ã-fã	NasalA-f-NasalA
Wife	e-pu-z-	ay-p-u-zz
Husband	mari	m-ah-rr-e
Husband-Sponsus	e-pu	ay-p-u
Mother	me-r	m-ay-rr
Father	be-r-	p-ay-rr
Animal	oma-j-	oh-m-ah-jg
Fish-Pescion	pwasõ	p-w-ah-s-on
Bird-Avicellum	waz-o	w-ah-zz-oh
Louse	p-u	p-u
Snake	s-erb-a	s-ay-rr-p-NasalA
Worm	ver	v-ay-rr
Tree	arp-r	ah-rr-b-rr
Stick	pal	p-ah-l
Fruit	Įrdi	f-rr-eu-e
Flower	tlær	f-l-OpenMidNearFrontRounded-rr
Tail	kø	k-uu k-uu
Feather	plym-	p-l-eeh-m
Feather-Penna	pe-n-	p-eh-n
Hair	pwal	p-w-ah-l
Hair-Capillus	∫əvø	shh-aah-v-uu
Head	[əνε	shh-aah-v-eh
Head-Testa	tε-t-	t-eh-t
Nose	ne	n-ay
Mouth	bu-∫-	b-u-shh
Mouth-Gula	gœl-	g-OpenMidNearFrontRounded-1
Wing	el-	ay-1
Sun-Soliculus	səlej	s-euh-l-eh diphthong
Moon	lyn-	l-eeh-n
Star	e-twa-1-	ay-t-w-ah-l
Water	0	oh
Rain	plyi-	p-l-eu-e
River-Rivus	RA	rr-eeh
River-Riparia	rivjer	
Lake	lak	rr-e-v-jg-ay-rr l-ah-k
Sea	mer-	m-eh-rr
		m-en-rr s-eh-l
Salt	sel	
Earth	t-e-r-	t-ay-rr
Fog-Nebula	njoly	n-jg-euh-l-eeh
Fog-Tenebras	t-en-εpr-	t-ay-n-eh-b-rr
Fog-Fumata	fyme	f-eeh-m-ay

CI	.1.1	. 1. 1
	sjel	s-jg-eh-l
	v-a	v-NasalA
	રૂદી-	gzah-eh-l
	f-ø	f-uu
	a	NasalA
	nɔ	n-oon
Tongue	lã-g	l-NasalA-g
ToDrink	pwar-	b-w-a-rr
ToEat-Manducare	ma-3e	m-NasalA-gzah-ay
ToBite	m-orq-r-	m-oh-rr-d-rr
ToSuck	syse	s-eeh-s-ay
	kɔ̃-spye-	k-oon-s-p-eeh-ay
	savwar-	s-ah-v-w-ah-rr
L	ko-ne-tu-	k-euh-n-eh-t-rr
	kyide	k-eu-e-d-ay
	pa-se	p-NasalA-s-ay
	*	k-rr-ehn-d-rr
	q-ormir-	d-euh-rr-m-e-rr
·	AIA-R-	v-e-v-rr
	mnrir-	
		m-u-rr-e-rr
	nwaje	n-w-aj_diphthong-ay
		t-eu-ay
	ma-te	m-ah-t-ay
	oksir-	euh-k-s-e-rr
	patr-	b-ah-t-rr
	∫a-s-e	shh-ah-s-ay
	pu-se	p-u-s-ay
ToCut	sje	s-jg-ay
ToCut-Excurtare	ekurte	ay-k-u-rr-t-ay
ToCut-Taliare	taje	t-a-jg-ay
ToSplit-Scindere	s-ε-de	s-ehnn-d-ay
ToSplit-Findere	ta-q-r-	f-NasalA-d-rr
	bartir-	p-ah-rr-t-e-rr
-	sə-vre	s-aah-v-rr-ay
	bwe-q-r-	p-w-ehnn-d-rr
	zygyle	gzah-eeh-g-eeh-l-ay
	Raze	rr-a-zz-ay
	fwir	f-w-e-rr
	naze	n-ah-gzah-ay
	-	v-oh-l-ay
•	Spmine	shh-aah-m-e-n-ay
l ·		
	3	
		•
		-
		•
		•
		v-e-rr-ay
	∫waк-	shh-w-ah-rr
ToFall-Tumbare	tõ-be-	t-on-b-ay
ToHold	tən-iʁ-	t-aah-n-e-rr
ToSqueeze	ebre-q-r-	ay-p-rr-ehnn-d-rr
ToCome ToLieAsInABed ToLieAsInABed-lacere ToSit ToStand ToStand-Levare ToStand-Altiare ToTurnIntransitive ToTurnIntransitive-Gyrare ToTurnIntransitive-AncestralClass3 ToTurnIntransitive-Torquere ToFall ToFall-Tumbare ToHold	tan-ir- to-pe- torq-r- sire tranger-	t-euh-rr-d-rr shh-w-ah-rr t-on-b-ay t-aah-n-e-rr

Four	k-a-tʁ-	k-ah-t-rr
Five	sẽ-k	s-ehn-k
Here	isi-	e-s-e
There	la-	1-ah
Who-Qui	k-i-	k-e
What	kwa-	k-w-ah
When-Quando	k-ã	k-NasalA
How-Quomodo	kəmã	k-euh-m-NasalA
Not	nõ-	n-oon
Not-Nec	ni-	n-e
And-Et	e-	ay

# Spanish

Cognate	IPA	Sounds
I	jo	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	dona	d-oh-VdPalatalNasal-ah
ManHumanBeing	om-bre-	oh-m-b-er-ay
Child	infante-	e-n-f-ah-n-t-ay
Child-Ninnus	nipo	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	aliman-a	ah-l-e-m-ah-VdPalatalNasal-ah
Fish-Piskem	реθ	p-ay-th
Bird-Avem	abe-	ah-b-ay
Bird-Passerem	pa-xaro-	p-ah-xha-ah-er-oh
Louse	pjox-o-	p-jg-oh-xha-oh
Snake	s-erpjente-	s-ay-er-p-jg-ay-n-t-ay
Snake-Serpens	sjerpe	s-jg-ay-er-p-ay
Worm	berme-	b-ay-er-m-ay
Tree	arβol	ah-er-bb-oh-l
Forest	selba	s-ay-l-b-ah
Stick	palo-	p-ah-l-oh
Fruit	fruto-	f-er-u-t-oh
Flower	flor	f-l-oh-er
Tail	kola	k-oh-l-ah
Feather	pluma	p-l-u-m-ah
Feather-Penna	ре-па	p-ay-VdPalatalNasal-ah
Hair	p-elo-	p-ay-l-oh
Hair-Capillus	kabe-jo-	k-ah-b-ay-VdPalatalFricative-oh
Head	kaβe-θ-a	k-ah-bb-ay-th-ah
Nose	naso-	n-ah-s-oh
Nose-Nares	nariθ-	n-ah-er-e-th
Mouth	bo-ka	b-oh-k-ah
Mouth-Gula	gola	j-oh-l-ah

Wing	ala	ah-l-ah
Sun	sol	s-oh-l
Moon		1-u-n-ah
Star	luna	
	estre-ja	ay-s-t-er-ay-VdPalatalFricative-ah
Water	'a-γwa	ah-juh-w-ah
Rain	j-u-bja	VdPalatalFricative-u-b-jg-ah
River-Rivus	ri-o-	r-e-oh
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	kalina-	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
Ice	jelo	VdPalatalFricative-ay-l-oh
Smoke	-umo-	u-m-oh
Fire-Focus	fwego-	f-w-ay-g-oh
Year	a-no-	ah-VdPalatalNasal-oh
Name-Nominem	nom-bre-	n-oh-m-b-er-ay
Tongue	'leŋgwa	l-ay-nya-g-w-ah
ToDrink	beb-er-	b-ay-b-ay-er
ToEat	komer-	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	kwidar-	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
	kabar	k-ah-b-ah-er
ToDig-Cavare	eskabar-	
ToDig-Excavare	CSKaUai-	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
	bolar-	b-oh-l-ah-er
ToFly		
ToWalk	kaminar-	k-ah-m-e-n-ah-er
ToWalk-Ambitare	andar-	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-er-	s-ay-er
ToSit-Sedentare	sentar-	s-ay-n-t-ah-er
ToStand	estar-	ay-s-t-ah-er
ToStand-Levare	jebar-	VdPalatalFricative-ay-b-ah-er
ToStand-Altiare	-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-Torquere	torθer-	t-oh-er-th-ay-er
ToFall	k-a-er-	k-ah-ay-er
ToFall-Tumbare	tumbar	t-u-m-b-ah-er
ToHold	ten-er-	t-ay-n-ay-er
ToHold-Segurar	segurar	s-ay-g-u-er-ah-er
ToSqueeze	eksprem-ir-	ay-k-s-p-er-ay-m-e-er
ToSqueeze-Serrere	se-rar	s-ay-r-ah-er
ToSqueeze-Serare	θe-rar-	th-ay-r-ah-er
ToSqueeze-Appectorare	a-pretar-	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	laβar-	l-ah-bb-ah-er
	e-starsir-	
ToWipe-Extergere		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-ffar	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	kos-er-	k-oh-s-ay-er
ToCount	kontar-	k-oh-n-t-ah-er
ToCount-Enumerare	enumerar-	ay-n-u-m-ay-er-ah-er
ToSay	deθir	d-ay-th-e-er
ToSing-AncestralClass	kantar-	k-ah-n-t-ah-er
ToPlay-Ludere	ludir-	l-u-d-e-er
ToPlay-Jiocare	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-1-ah-er
ToBurn-Cremare	k-emar-	k-ay-m-ah-er
ToBurn-Flammare	fla-mear	f-l-ah-m-ay-ah-er
ToBurn-Ardere	arder-	ah-er-d-ay-er
ToBurn-Flagrare	flagrar	f-l-ah-g-er-ah-er
ann i lagraro	3***	<del>0                            </del>

ToBurn-Incendere	enθend-er-	ay-n-th-ay-n-d-ay-er
All-Totus	to-do-	t-oh-d-oh
Many	mu-tso-	m-u-ts-oh
Many-Tantus	mu-yo- tanto-	m-u-is-on 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	та-ло-	m-ah-VdPalatalNasal-oh
Big-Grandem	grande-	g-er-ah-n-d-ay
Long-Longum	lo-ngo-	l-oh-n-j-oh
Long-Largum	laryo-	l-ah-er-juh-oh
Wide	lato-	l-ah-t-oh
Wide-Amplum	antf-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-keno-	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-efo-	ay-s-t-er-ay-ts-oh
Thin	menu-do-	m-ay-n-u-d-oh
Thin-Delicatus	del-γaðo-	d-ay-l-juh-ah-dd-oh
Thin-Subtilis	su-til	s-u-t-e-l
Right-Dextrem	dje-stro-	d-jg-ay-s-t-er-oh
Right-Directum	der-e-tfo-	d-ay-er-ay-ts-oh
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-tro	k-w-ah-t-er-oh
Five	'θink-o	th-e-n-k-oh
Here	-a-ki-	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
, u	•	•

# Italian

Cognate	IPA	Sounds	
	io	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	moλλe	m-oh-yuh-yuh-ay	
Woman-Domina	don-na	d-euh-n-n-ah	

ManHumanBeing-Homo	-womo	w-euh-m-oh
Child	fante-	f-ah-n-t-ay
Child-Ninnus	nino	n-e-n-oh
Wife	-spo-za	s-p-euh-zz-ah
Wife-Mulier	mολλe	m-oh-yuh-ay
Husband	marito-	m-ah-r-e-t-oh
Husband-Sponsus	-spo-zo-	s-p-euh-zz-oh
Husband-Socius	soff-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	bi∬-a	b-e-shh-shh-ah
Fish-Piskem	pesse-	p-ay-shh-shh-ay
Bird-Avicellum	u-ttʃ-εllo-	u-t-ts-eh-l-l-oh
Bird-Passerem	passero-	p-ah-s-s-ay-r-oh
Louse	p-idəkkjo-	p-e-d-euh-k-k-jg-oh
Snake	s-erp-ente-	s-ay-r-p-ay-n-t-ay
Snake-Serpens	s-erpe	s-eh-r-p-ay
Worm	verme-	v-ay-r-m-ay
Tree	albero-	ah-l-b-ay-er-oh
Forest	selva	s-ay-l-v-ah
Stick	palo-	p-ah-l-oh
Fruit	fru-tto-	f-r-u-t-t-oh
Flower	'fjo:re-	f-jg-O-er-ay
Tail	koda	k-oh-d-ah
Feather	pjuma	p-jg-u-m-ah
Feather-Penna	penna	p-ay-n-n-ah
Hair	p-elo-	p-ay-l-oh
Hair-Capillus	kapello-	k-ah-p-ay-l-l-oh
Head	kavettsa	k-ah-v-ay-t-t-s-ah
Head-Testa	testa	t-eh-s-t-ah
Nose	na:so-	n-A-s-oh
Nose-Nares	nariţe	n-ah-r-e-ts-ay
Mouth	bokka	b-oh-k-k-ah
Mouth-Gula	gola	j-oh-l-ah
Wing	ala	ah-l-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	pjoddz-a	p-jg-oh-d-VdPalatoAlveolarSibilant-ah
River	fjume-	f-jg-u-m-ay
River-Rivus	ri-o-	r-e-oh
Lake	lago-	l-ah-g-oh
Sea	mare	m-ah-r-ay
Salt	sale-	s-ah-l-ay
Earth	't-εrra	t-eh-r-r-ah
Fog	kalidzine-	k-ah-l-e-VdPalatoAlveolarSibilant-e-n-ay
Fog-Nebula	n-ebb-ja	n-ay-b-jg-ah
Fog-Tenebrae	tɛ:nebre	t-Eh-n-ay-b-r-ay
Fog-Tenebras	t-ε:n-ebre-	t-Eh-n-ay-b-r-ay
Fog-Fumata	fuma:ta	f-u-m-A-t-ah
Sky	ˈʧ-εlo-	ts-eh-l-oh
Wind	'v-εnto-	v-eh-n-t-oh
Ice	dzelo	VdPalatoAlveolarSibilant-eh-l-oh
Smoke	fumo-	f-u-m-oh
Fire-Focus	fwoko-	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	bere	b-ay-er-ay
ToEat-Manducare	mandzare	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-no∬ere	k-oh-n-oh-shh-shh-ay-r-ay
ToThink	k-odzitare	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	utsfidere	u-t-ts-e-d-ay-er-ay
ToFight	punnare	p-u-VdPalatalNasal-VdPalatalNasal-ah-r-ay
ToFight-Battuere	batt-ere	b-ah-t-t-ay-r-ay
ToHunt-Captiare	kattf-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-λλa:re	t-ah-yuh-yuh-A-r-ay
ToSplit	dividere	d-e-v-e-d-ay-r-ay
ToSplit-Scindere	∫-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-undzere	p-u-n-VdPalatoAlveolarSibilant-ay-r-ay
ToStab-lugulare	jugula:re	jg-u-j-u-l-A-r-ay
ToScratch	radere	r-ah-d-ay-r-ay
ToScratch-Rasare	rasare	r-ah-s-ah-r-ay
ToDig-Cavare	kavare	k-ah-v-ah-r-ay
ToDig-Excavare	skavare	s-k-ah-v-ah-r-ay
ToSwim	nwotare	n-w-oh-t-ah-er-ay
ToSwim-Navigare	navigare	n-ah-v-e-g-ah-r-ay
ToFly	volare	v-oh-l-ah-er-ay
ToFly-Exvolare	zvolare	zz-v-oh-l-ah-er-ay
ToWalk	kamminare	k-ah-m-m-e-n-ah-er-ay
ToWalk-Mergere	merdzere	m-eh-r-VdPalatoAlveolarSibilant-ay-r-ay
ToWalk-Ambitare	andare	ah-n-d-ah-r-ay
ToCome	venire	v-ay-n-e-er-ay
ToLieAsInABed	e-stendere	ay-s-t-eh-n-d-ay-r-ay
ToLieAsInABed-lacere	dza-ffe: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		VdPalatoAlveolarSibilant-e-r-ah-er-ay
	dzirare	
ToTurnIntransitive-AncestralClass3	virare	v-e-r-ah-er-ay
ToTurnIntransitive-Torquere	torffere	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	-strindzere	s-t-r-e-n-VdPalatoAlveolarSibilant-ay-r-ay
ToRub	fregare	f-r-ay-j-ah-r-ay
ToRub-Frictare	frettare	f-r-ay-t-t-ah-r-ay
ToWash	lavare	l-ah-v-ah-r-ay
ToWipe	terdzere	t-eh-r-VdPalatoAlveolarSibilant-ay-r-ay
	•	
ToWipe-Exsucare	a∬-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	impindzere	e-m-p-e-n-VdPalatoAlveolarSibilant-ay-r-ay
ToThrow	dzettare	VdPalatoAlveolarSibilant-ay-t-t-ah-r-ay
ToThrow-Lanceare	lantfare	l-ah-n-ts-ah-r-ay
ToThrow-Eruncare	arronfare	ah-r-r-oh-n-ts-ah-r-ay
ToTie	legare	l-ay-g-ah-r-ay
ToSew	kuʧ-ire	k-u-ts-e-r-ay
ToCount	kontare	k-oh-n-t-ah-r-ay
ToCount-Enumerare	enumerare	ay-n-u-m-ay-r-ah-r-ay
ToSay	dire	d-e-r-ay
ToSay-Exponere	spor-re	s-p-oh-r-r-ay
ToSing-AncestralClass	kantare	k-ah-n-t-ah-r-ay
ToPlay-Jiocare	dzo-kare	VdPalatoAlveolarSibilant-oh-k-ah-r-ay
ToFloat	fluttuare	f-l-u-t-t-u-ah-r-ay
ToFloat-Fluitare	fluitare	f-l-u-e-t-ah-r-ay
ToFlow	fluire	f-l-u-e-r-ay
ToFlow-Colare	kolare	k-oh-l-ah-r-ay
ToFlow-Excurrere	skorrere	s-k-oh-r-r-ay-r-ay
ToFlow-Currere	korrere	k-oh-r-r-ay-r-ay
ToFreeze	dzelare	VdPalatoAlveolarSibilant-ay-l-ah-r-ay
ToFreeze-Glaciare	gjattjjare	g-jg-ah-t-ts-jg-ah-r-ay
ToBurn-Brojan	brutfare	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	infendjare	e-n-ts-eh-n-d-jg-ah-r-ay
ToBurn-AncestralClass8	ustolare	u-s-t-oh-l-ah-r-ay
All		oh-VdPalatalNasal-VdPalatalNasal-e
All-Totus	onni-	t-u-t-t-oh
	tutto-	m-oh-l-t-oh
Many Tentus	molto-	
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	тарро-	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	pittjino-	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
Right-Dextrem	d-ε-stro-	d-eh-s-t-r-oh
Right-Directum	destra	d-eh-s-t-r-ah
Red	rub-ro	r-u-b-r-oh
Red-Russus	rosso-	r-oh-s-s-oh
Red-Vermiculus	vermiλ-λο-	v-ay-r-m-e-yuh-yuh-oh
Red-Rubeus	rəbbjo-	r-euh-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	kwattro	k-w-ah-t-t-r-oh
Five	ˈʧiŋkwe	ts-e-nya-k-w-ay
Here	kwi-	k-w-e
There	la-	1-ah
There-Ibi	-vi	v-e
Who-Qui	k-i-	k-e
What	k-e-	k-ay
When-Quando	kwando	k-w-ah-n-d-oh
How-Quomodo	kome	k-oh-m-ay
Not	non	n-oh-n
Not-Nec	ne-	n-ay
And-Et	e-	ay

## Brazilian Portuguese

- Brazinan i ortagaese		
Cognate	IPA	Sounds
	-e-w	ay-w
We	noj-s	n-euh-jg-s
YouPlural	vojs	v-euh-jg-s
YouSingular	tu	t-u
YouSingular-VostramMercedem	vos-e-	v-oh-s-ay
Woman	fe-mev	f-ay-m-ay-ahh
Woman-Mulier	muγ-er	m-u-yuh-ay-rr
Woman-Domina	done	d-oh-n-ahh
ManHumanBeing	omej̃	oh-m-nasal_diphthong_portuguese1
Child	ĩ-fẽ-țjĭ-	een-f-ahn-ts-e
Child-Ninnus	nenej	n-ay-n-nasal_diphthong_portuguese1
Wife	ispo-za	e-s-p-oh-zz-ah
Wife-Mulier	mnγ-er-	m-u-yuh-ay-rr
Husband	maridu-	m-ah-er-e-d-u
Husband-Sponsus	ispo-zu-	e-s-p-oh-zz-u
Mother	mej	m-nasal_diphthong_portuguese2
Father	paj	p-aj_diphthong
Father-Tata	tata	t-ah-t-ah
Animal-Bestia	bi-∫-ɐ	b-e-shh-ahh
Fish-Piskem	pej∫-i-	p-ej diphthong-shh-e
Bird-Avem	avi-	ah-v-e
Bird-Passerem	pa-seru-	p-ah-s-ahh-er-u
Louse	p-i-o-λu-	p-e-oh-yuh-u
Snake	s-erb-€-tli-	s-ay-rr-p-ehn-ts-e

Worm	vermi-	v-ay-rr-m-e
Tree	arvou-	ah-rr-v-oh-er-e
Forest		s-eh-w-v-ah
	sewva	
Stick	paw	p-ah-w
Fruit	frute-	f-er-u-t-ahh
Flower	tlor	f-l-oh-rr
Tail	kawde	k-ah-w-d-ahh
Feather-Penna	pe-ne	p-ay-n-ahh
Hair	p-elu-	p-ay-l-u
Hair-Capillus	kabe-lu-	k-ah-b-ay-l-u
Head	kabe-s-ɐ	k-ah-b-ay-s-ahh
Head-Testa	teste	t-eh-s-t-ahh
Nose-Nares	naris-	n-ah-er-e-s
Mouth	bo-ke	b-oh-k-ahh
Wing	a	ah
Sun	sow	s-euh-w
Moon	lu-e	1-u-ahh
Star	istre-le	e-s-t-er-ay-l-ahh
Water	'a-gwe	ah-g-w-ahh
Rain	J-u-v-e	shh-u-v-ahh
River	flumi	f-l-u-m-e
River-Rivus	RI-M-	rr-e-W
Lake	lagu-	l-ah-g-u
Sea	mar-	m-ah-rr
Salt	saw	s-ah-w
Earth	,t-е-къ	t-ay-rr-ahh
Fog	kalizēj	k-ah-l-e-gzah-nasal_diphthong_portuguese1
Fog-Nebula	n-e-w-e	n-eh-v-w-ahh
Fog-Fumata	fumase	f-u-m-ah-s-ahh
Sky	s-εw	s-eh-w
Wind	'v-ẽ-tu-	v-ehn-t-u
Smoke	fumu-	f-u-m-u
Fire-Focus	f-ogu-	f-oh-g-u
Year	e-nu-	ahh-n-u
Name-Nomen	nomi-	n-oh-m-e
Tongue	'lĩ-gwe	l-een-g-w-ahh
ToDrink	pep-er-	b-ay-b-ay-rr
ToEat	kome	k-oh-m-ay
ToEat-Manducare	mg-3ar-	m-ahn-gzah-ah-rr
ToBite	m-order-	m-oh-rr-d-ay-rr
ToBite-Morsicare		
	mu-səga	m-u-s-aah-g-ah
ToSuck	sugar-	s-u-g-ah-rr
ToSpit	kn-sbir	k-u-s-p-e-rr
ToKnow-Sapere	sap-er-	s-ah-b-ay-rr
ToKnow-Cognoscere	ko-nes-er-	k-oh-VdPalatalNasal-ay-s-ay-rr
ToThink	k-uʒitaʁ-	k-u-gzah-e-t-ah-rr
ToThink-Pensare	pē-sar-	p-ehn-s-ah-rr
ToFear	temer-	t-ay-m-ay-rr
ToFear-Tremere	trem-er-	t-er-ay-m-ay-rr
ToSleep	q-ormir-	d-oh-rr-m-e-rr
ToLive	viver-	v-e-v-ay-rr
ToDie	morer-	m-oh-rr-ay-rr
ToKill-Mactare	ma-taĸ-	m-ah-t-ah-rr
ToFight-Battuere	pa-t-er-	b-ah-t-ay-rr
ToHunt-Captiare	ka-s-ak-	k-ah-s-ah-rr
ToHit	bn-lar-	p-u-shh-ah-rr
ToCut	s-edar-	s-ay-g-ah-rr
i oout	- cyub	0 mj g mii ii

ToCut-Curtare	kortar-	k-oh-rr-t-ah-rr
ToCut-Taliare	ta-y-ar-	t-ah-yuh-ah-rr
ToSplit	qziviqzir-	VdPalatoAlveolarSibilant-e-v-e-VdPalatoAlveolarSibilant-e-rr
ToSplit Porting	fe-der-	f-ehn-d-ay-rr
ToSplit Congress	bartlir-	p-ah-rr-ts-e-rr
ToSplit-Separare	separar-	s-ay-p-ah-er-ah-rr
ToStab	b-ũ-3ir-	p-ooo-gzah-e-rr
ToScratch	ка-ек-	rr-ah-ay-rr
ToScratch-Rasare	kazak-	rr-ah-zz-ah-rr
ToScratch-Rasicare	ra∫kar	rr-ah-shh-k-ah-rr
ToScratch-Coctiare	kosaĮ	k-oh-s-ah-VdRetroflexApproximant
ToDig-Cavare	kenar	k-ahh-v-ah-rr
ToDig-Excavare	i-∫kasr-	e-shh-k-ahh-v-ah-rr
ToSwim	u-aqar-	n-ah-d-ah-rr
ToSwim-Navigare	navɨyaĸ-	n-ah-v-eee-juh-ah-rr
ToFly	vo-ar-	v-oh-ah-rr
ToWalk	keminar-	k-ahh-m-e-VdPalatalNasal-ah-rr
ToWalk-Ambitare	s-qar-	ahn-d-ah-rr
ToCome	AiR-	v-e-rr
ToLieAsInABed	istē-der-	e-s-t-ehn-d-ay-rr
ToLieAsInABed-lacere	3s-zer-	gzah-ahh-zz-ay-rr
ToSit	s-er-	s-ay-rr
ToSit-Sedentare	sētar-	s-ehn-t-ah-er
ToStand	i∫tar-	eee-shh-t-ah-er
ToStand-Levare	levar-	l-ay-v-ah-rr
ToStand-Altiare	-ats-a	ah-ssha-s-ah
ToTurnIntransitive	tornar-	t-oh-rr-n-ah-rr
ToTurnIntransitive-Gyrare	zirar-	gzah-e-er-ah-er
ToTurnIntransitive-AncestralClass3	virar-	v-e-er-ah-er
ToTurnIntransitive-Torquere	turser-	t-u-r-s-ay-r
ToFall	k-e-ir-	k-ahh-e-er
ToFall-Tumbare	tõ-bar	t-on-b-ah-rr
ToHold	ter-	t-ay-rr
ToHold-Segurar	sɨguraĸ	s-eee-g-u-er-ah-rr
ToSqueeze	i-∫prəm-eʁ-	e-shh-p-r-aah-m-ay-rr
ToSqueeze-Serrere	se-ra	s-ay-rr-ah
ToSqueeze-Serare	si-rat-	s-eee-rr-ah-er
ToSqueeze-Appectorare	e-pi-r-tar-	ahh-p-eee-er-t-ah-er
ToSqueeze-Stringere	əʃtrĩ-ʒir-	aah-shh-t-r-een-gzah-e-r
ToRub-Exfricare	iſfrigar	eee-shh-f-er-eee-g-ah-er
ToWash	levar-	l-ahh-v-ah-er
ToWipe-Exsucare	ẽ-∫-ug-ar-	ehn-shh-u-g-ah-er
ToWipe-Limpidare	lĩ-par-	l-een-p-ah-er
ToPull	tʃira	ts-e-er-ah
ToPull-Pulsare	pu-∫ar-	p-u-shh-ah-er
ToPull-Trahere	traze	t-er-ah-zz-ay
ToThrow	zejtar	gzah-ej diphthong-t-ah-er
ToThrow-Lanceare	le-s-a	l-ahn-s-ah
ToTie-Aptare	e-tar-	ahh-t-ah-er
ToSew	kuz-er-	k-u-zz-ay-er
ToCount	kõtar-	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	ke-tar-	k-ahn-t-ah-er
ToPlay-Jiocare	30-dar-	gzah-oh-g-ah-rr
ToFloat	flu-tuar-	f-l-u-t-u-ah-rr
ToFlow	flwik-	f-l-w-e-rr
I OI IOVV	11 11 11	1 1 11 0 11

ToFlow-Colare	ko-ar-	k-oh-ah-rr
ToFlow-Excurrere	i-lko-rer-	e-shh-k-oh-rr-ay-rr
ToFlow-Currere	ko-rer-	k-oh-rr-ay-rr
ToFreeze	zɨlaɾ-	gzah-eee-l-ah-er
ToBurn-Cremare	k-ejmare	k-diphthong_portuguese-m-ah-er-ay
ToBurn-Ardere	arder-	ah-rr-d-ay-rr
ToBurn-Flagrare	tlagrar-	f-l-ah-j-rr-ah-rr
ToBurn-Incendere	ĩ-sendziar-	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	te-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	gre-dzi-	g-er-ahn-VdPalatoAlveolarSibilant-e
Long-Longum	lõ-gu-	l-on-g-u
Long-Largum	lardn-	l-ah-rr-g-u
Wide	latu-	l-ah-t-u
Wide-Amplum	ẽ-∫-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	kustu-	k-u-rr-t-u
Short-Brevis	'brevi-	b-er-eh-v-e
Narrow-Strictus	istr-ejtu-	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-∬iw	s-u-ts-e-w
Right-Dextrem	d-ε-stru-	d-eh-s-t-er-u
Right-Directum		d-e-er-diphthong portuguese-t-ahh
Red-Russus	dir-ej-te-	rr-oh-shh-NearCloseBackRounded
	RO- <b>Q</b> Ω-	
Red-Vermiculus	vermeλu-	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	000
Two-Duos	d-ojs	d-oj_diphthong-s
Two-Duas	dues	d-u-ahh-s
Three	tr-es	t-er-ay-s
Four	kwa-tru	k-w-ah-t-er-u
Five	ˈsĩ-k-u	s-een-k-u
Here	-a-ki-	ah-k-e
There	la-	l-ah
There-Adlbi	ai	ah-e
Who-Quem	k-ẽj̃	k-nasal_diphthong_portuguese1
What	k-i-	k-e
When-Quando	kwe-du	k-w-ahn-d-u
How-Quomodo	komu	k-oh-m-u
Not	new	n-au diphthong nasal
Not-Nec	nếj	n-nasal diphthong portuguesel
And-Et	i-	e e

# Portuguese

Cognate	IPA	Sounds
	-e-w	ay-w
We	no-∫	n-euh-shh
YouPlural	vo-∫	v-oh-shh
YouSingular	tu	t-u
YouSingular-VostramMercedem	vos-e-	v-euh-s-ay
Woman	ˈfe-mjɐ	f-ay-m-jg-ahh
Woman-Mulier	muλ-er	m-u-yuh-ay-er
Woman-Domina	done	d-oh-n-ahh
ManHumanBeing	omēj̃	euh-m-nasal_diphthong_portuguese1
Child	ĩ-fɐ̃-tɨ-	een-f-ahn-t-eee
Child-Ninnus	nenej̇̃	n-ay-n-nasal_diphthong_portuguese1
Wife	i∫po-zɐ	eee-shh-p-oh-zz-ahh
Wife-Mulier	muλ-er-	m-u-yuh-ay-er
Husband	meriðu-	m-ahh-er-e-dd-u
Husband-Sponsus	i∫po-zu-	eee-shh-p-oh-zz-u
Mother	mej	m-nasal_diphthong_portuguese2
Father	paj	p-aj_diphthong
Father-Tata	tata	t-ah-t-ah
Animal-Bestia	bi-∫-ɐ	b-e-shh-ahh
Fish-Piskem	pej∫- <del>i</del> -	p-diphthong_portuguese-shh-eee
Bird-Avem	avi-	ah-v-eee
Bird-Passerem	pa-seru-	p-ah-s-ahh-er-u
Louse	p-i-o-λu-	p-e-oh-yuh-u
Snake	s-irp-ē-ti-	s-eee-er-p-ehn-t-eee
Worm	vermi-	v-ay-er-m-eee
Tree	arvur <del>i</del> -	ah-er-v-u-er-eee
Forest	selve	s-eh-ssha-v-ahh
Stick	paw	p-ah-w
Fruit	frute-	f-er-u-t-ahh
Flower	flor	f-l-oh-er
Tail	kawde	k-ah-w-d-ahh
Feather-Penna	pe-nɐ	p-ay-n-ahh
Hair	p-ilu-	p-eee-l-u
Hair-Capillus	keβe-lu-	k-ahh-bb-ay-l-u
Head	keβe-s-e	k-ahh-bb-ay-s-ahh
Head-Testa	te∫tv	t-eh-shh-t-ahh
Nose-Nares	neciJ-	n-ahh-er-e-shh
Mouth	bo-ke	b-oh-k-ahh
Wing	a	ah
Sun	sət	s-euh-ssha
Moon	lu-e	l-u-ahh
Star	i∫tre-lɐ	eee-shh-t-er-ay-l-ahh
Water	'a-gwe	ah-g-w-ahh
Rain	∫-u-v-ɐ	shh-u-v-ahh
River	flumi-	f-l-u-m-eee
River-Rivus	ri-u-	rr-e-u
Lake	layu-	l-ah-juh-u
Sea	mar-	m-ah-er
Salt	sal	s-ah-l
Earth	't-ε-κε	t-eh-rr-ahh
Fog	kelizēj	k-ahh-l-e-gzah-nasal_diphthong_portuguese2
Fog-Nebula	n-e-vw-e	n-eh-v-w-ahh
Fog-Tenebras	trεν-e∫	t-er-eh-v-ahh-shh
Fog-Fumata	fumase	f-u-m-ah-s-ahh
Sky	S-εW	s-eh-w

Wind	'v-ẽ-tu-	v-ehn-t-u
Smoke	fumu-	f-u-m-u
Fire-Focus		
Year	f-oyu-	f-oh-juh-u
Name-Nomen	e-nu-	ahh-n-u
	nomi-	n-oh-m-eee
Tongue	'lĩ-gwe	l-een-g-w-ahh
ToDrink	biβ-er-	b-eee-bb-ay-er
ToEat	kumer-	k-u-m-ay-er
ToEat-Manducare	me-3ar-	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-ſpir	k-u-shh-p-e-er
ToKnow-Sapere	seb-er-	s-ahh-b-ay-er
ToKnow-Cognoscere	ku-nis-er-	k-u-VdPalatalNasal-eee-s-ay-er
ToThink	k-uʒitar-	k-u-gzah-e-t-ah-er
ToThink-Pensare	pe-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	mnret-	m-u-rr-ay-er
ToKill-Mactare	me-tar-	m-ahh-t-ah-er
ToFight-Battuere	be-t-er-	b-ahh-t-ay-er
ToHunt-Captiare	ke-s-ar-	k-ahh-s-ah-er
ToHit	pu-∫ar-	p-u-shh-ah-er
ToCut	s-iyar-	s-eee-juh-ah-er
ToCut-Curtare	kurtar-	k-u-er-t-ah-er
ToCut-Taliare	te-V-at-	t-ahh-yuh-ah-er
ToSplit	diviðir-	d-e-v-e-dd-e-er
ToSplit-Findere	fë-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	RG-et-	rr-ahh-ay-er
ToScratch-Rasare	rgsat-	rr-ahh-zz-ah-er
ToScratch-Rasicare	re∫kar	rr-ahh-shh-k-ah-er
ToScratch-Coctiare	kusar	k-u-s-ah-er
ToDig-Cavare	kevar	k-ahh-v-ah-er
ToDig-Excavare	i-∫kɐvaɾ-	e-shh-k-ahh-v-ah-er
ToSwim	n-gðar-	n-ahh-dd-ah-er
ToSwim-Navigare	neviyar-	n-ahh-v-eee-juh-ah-er
ToFly	vw-ar-	v-w-ah-er
ToWalk	keminar-	k-ahh-m-e-VdPalatalNasal-ah-er
ToWalk-Ambitare	e-dar-	ahn-d-ah-er
ToCome	vir-	v-e-er
ToLieAsInABed	iste-der-	e-shh-t-ehn-d-ay-er
ToLieAsInABed-lacere	3g-zet-	gzah-ahh-zz-ay-er
ToSit	S-e(-	s-ay-er
ToSit-Sedentare	setar-	s-ehn-t-ah-er
ToStand		s-enn-t-an-er eee-shh-t-ah-er
ToStand ToStand-Levare	iftar-	l-eee-v-ah-er
ToStand-Levare ToStand-Altiare	lɨvar- -ałs-ar-	
		ah-ssha-s-ah-er
ToTurnIntransitive	turnar-	t-u-er-n-ah-er
ToTurnIntransitive-Gyrare	zirar-	gzah-e-er-ah-er
ToTurnIntransitive-AncestralClass3	zirar-	gzah-e-er-ah-er
ToTurnIntransitive-Torquere	turser-	t-u-r-s-ay-r

ТоГоШ	1 1-	11.1
ToFall ToFall-Tumbare	k-e-ir- tõ-bar	k-ahh-e-er t-on-b-ah-er
ToHold		
	ter-	t-ay-er
ToHold-Segurar	siyurar	s-eee-juh-u-er-ah-er
ToSqueeze	i-∫prəm-er-	e-shh-p-r-aah-m-ay-r
ToSqueeze-Serrere	sə-rar-	s-aah-VlUvularTrill-ah-er
ToSqueeze-Serare	si-rat-	s-eee-rr-ah-er
ToSqueeze-Appectorare	e-pi-r-tar-	ahh-p-eee-er-t-ah-er
ToSqueeze-Stringere	əʃtrīʒir-	aah-shh-t-r-een-gzah-e-r
ToRub-Exfricare	iſfriyar	eee-shh-f-er-eee-juh-ah-er
ToWash	levar-	l-ahh-v-ah-er
ToWipe-Exsucare	ẽ-∫-uγ-aɾ-	ehn-shh-u-juh-ah-er
ToWipe-Limpidare	lĩ-paɾ-	l-een-p-ah-er
ToPull	tirar-	t-e-er-ah-er
ToPull-Pulsare	pu-∫aɾ-	p-u-shh-ah-er
ToPull-Trahere	trezer-	t-er-ahh-zz-ay-er
ToThrow	<u>zejtar</u>	gzah-ej_diphthong-t-ah-er
ToThrow-Lanceare	le-s-ar-	l-ahn-s-ah-er
ToTie-Aptare	e-tar-	ahh-t-ah-er
ToSew	kuz-er-	k-u-zz-ay-er
ToCount	kõtar-	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	ke-tar-	k-ahn-t-ah-er
ToPlay-Jiocare	zu-yar-	gzah-u-juh-ah-er
ToFloat	flu-tuar-	f-l-u-t-u-ah-er
ToFlow	flwir-	f-l-w-e-er
ToFlow-Colare	ku-ar-	k-u-ah-er
ToFlow-Excurrere	i-∫ku-rer-	e-shh-k-u-VlUvularTrill-ay-er
ToFlow-Currere	kn-ret-	k-u-rr-ay-er
ToFreeze	3ɨlaɾ−	gzah-eee-l-ah-er
ToBurn-Cremare	k-ejmare	k-ej diphthong-m-ah-rr-ay
ToBurn-Ardere	rder-	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	mũj̃-tu	m-ooo-jn-t-u
Many-Tantus	te-tu-	t-ahn-t-u
Some	ałgũ	ah-ssha-g-ooo
Few	powku	p-oh-w-k-u
Other	owt-ru	oh-w-t-er-u
Other-Alius	ał	ah-ssha
Big-Grandem	gre-di-	g-er-ahn-d-eee
Long-Longum	lõ-gu-	l-on-g-u
Long-Largum	largu-	l-ah-er-g-u
Wide	latu-	l-ah-t-u
Wide-Amplum	e-∫-u-	ahn-shh-u
Heavy	grav <del>i</del> -	g-er-ah-v-eee
Heavy-Lurdus	lerdo-	l-ay-er-d-oh
Heavy-Pesant	piza-ðu	p-eee-zz-ah-dd-u
Small-Pittinus	pi-kenu-	p-eee-k-ay-n-u
Short	kurtu-	k-u-er-t-u
Short-Brevis	'brevi-	b-er-eh-v-eee
Narrow-Strictus	iftr-ejtu-	eee-shh-t-er-diphthong portuguese-t-u
Thin	ni-u-ðu-	m-e-u-dd-u
Thin-Delicatus		
Thin-Subtilis	deł-yaðu-	d-eh-ssha-juh-ah-dd-u
THIT-SUDUIS	su-¶iw	s-u-ts-e-w

Right-Dextrem	d-ε-ʃtɾu-	d-eh-shh-t-er-u
Right-Directum	dir-ej-te-	d-e-r-diphthong_portuguese-t-ahh
Red-Russus	ro-∫n-	rr-oh-shh-u
Red-Vermiculus	vɨrmɐjʎu-	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	000
Two-Duos	d-oj∫	d-oj_diphthong-shh
Two-Duas	dueſ	d-u-ahh-shh
Three	tr-e∫	t-er-ay-shh
Four	kwa-tru	k-w-ah-t-er-u
Five	ˈsĩ-k-u	s-een-k-u
Here	-e-ki-	ahh-k-e
There	la-	l-ah
There-Adlbi	ei	ahh-e
Who-Quem	k-ej	k-nasal_diphthong_portuguese2
What	k-i-	k-eee
When-Quando	kwe-du	k-w-ahn-d-u
How-Quomodo	komu	k-oh-m-u
Not	new	n-au_diphthong_nasal
Not-Nec	nej	n-nasal_diphthong_portuguese2
And-Et	i-	e

### Catalan

Cognate	IPA	Sounds
I		gzah-euh
YouPlural	30 bu-s	b-u-s
YouSingular	tu	t-u
		_ · ·
YouSingular-VostramMercedem Woman	voste- fe-m-bε-a	v-oh-s-t-ay
		f-ay-m-b-er-ah
Woman-Mulier	muλ-e	m-u-yuh-ay
Woman-Domina	dɔnə	d-euh-n-aah
ManHumanBeing	-əmə	euh-m-aah
Child-Ninnus	nen-	n-ay-n
Wife	əspə-zə	aah-s-p-euh-zz-aah
Wife-Mulier	muλ-e-	m-u-yuh-ay
Husband	marit	m-ah-er-e-t
Husband-Sponsus	əspə-s	aah-s-p-euh-s
Mother	ma-rə-	m-ah-er-aah
Father	ра-гә	p-ah-er-aah
Fish-Piskem	pe∫	p-ay-shh
Bird-Avem	aw	ah-w
Bird-Avicellum	us-e-Λ	u-s-ay-yuh
Louse	p-oλ	p-oh-yuh
Snake	s-ərp-en	s-aah-r-p-ay-n
Snake-Serpens	s-erp	s-ay-er-p
Worm	verm	v-eh-er-m
Tree	a-b-rə-	ah-b-er-aah
Forest	selba	s-ay-l-b-ah
Stick	pal	p-ah-l
Fruit	fruj-t	f-er-u-jg-t
Flower	flo	f-l-euh
Tail	ku-a	k-u-ah
Feather	plomə	p-l-oh-m-aah
Feather-Penna	pe-nə	p-eh-VdPalatalNasal-aah

Hair	p-εl	p-eh-l
Hair-Capillus	kəbε-λ	k-aah-b-eh-yuh
Head		
Head-Testa	kap	k-ah-p
	testə	t-ay-s-t-aah
Nose	nas	n-ah-s
Nose-Nares	na:ris-	n-A-r-NearCloseFrontUnrounded-s
Mouth	bo-kə	b-oh-k-aah
Mouth-Gula	golə	j-oh-l-Schwa
Wing	alə	ah-l-aah
Sun	səl	s-euh-l
Moon	enuλ	yuh-u-n-aah
Star	əst-ɛ-l-	aah-s-t-eh-l
Water	ˈaj-ɣwə	aj_diphthong-juh-w-aah
Rain	plu-ʒ-ə	p-l-u-gzah-aah
River-Rivus	ri-w-	r-e-w
Lake	Λak	yuh-ah-k
Sea	mar-	m-ah-r
Salt	sal	s-ah-l
Earth	't-ɛ-rə	t-eh-r-aah
Fog-Nebula	n-ewlə	n-ay-w-l-aah
Fog-Tenebras	t-ən-ebrəs	t-aah-n-ay-b-er-aah-s
Sky	s-el	s-eh-l
Wind	b-en	b-ay-n
Ice	3et-	gzah-eh-ssha
Smoke	fum	f-u-m
Fire-Focus	f-ok	f-euh-k
		ah-VdPalatalNasal
Year	a-ŋ	
Name-Nomen	nom	n-euh-m
ToDrink	pemtə	b-eh-w-er-aah
ToEat-Manducare	тәŋʒа	m-aah-VdPalatalNasal-gzah-ah
ToBite-Morsicare	mu-səγa	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-ne∫-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	ри-ра	p-u-VdPalatalNasal-ah
ToFight-Battuere	ba-trə	b-ah-t-er-aah
ToHunt-Captiare	kə-s-a	k-aah-s-ah
ToCut	s-əya	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-un-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		•
ToStand	gawrə əsta	gzah-ah-w-er-aah aah-s-t-ah
ToStand-Levare	лара	
ToStand-Levare ToStand-Altiare		yuh-aah-b-ah
ToTurnIntransitive	-əls-a	aah-l-s-ah
	turna-	t-u-r-n-ah
ToTurnIntransitive-Gyrare ToTurnIntransitive-AncestralClass3	zira	gzah-e-er-ah
	bira	b-e-er-ah
ToTurnIntransitive-Torquere	torso	t-euh-r-s-aah
ToFall	k-aw-rə	k-ah-w-r-aah
ToFall-Tumbare	tumba-	t-u-m-b-ah
ToHold	tən-i	t-aah-n-e
ToSqueeze	ə-sprem-ə	aah-s-p-er-ay-m-aah
ToSqueeze-Serrere	sə-ra	s-aah-r-ah
ToSqueeze-Stringere	ergantee	aah-s-t-er-eh-VdPalatalNasal-aah
ToRub	frəga	f-er-aah-g-ah
ToRub-Frictiare	frəsa-	f-er-aah-s-ah
ToWash	Кəba	yuh-aah-b-ah
ToWipe-Extergere	ə-stərʒi	aah-s-t-aah-r-gzah-e
ToWipe-Exsucare	ə-∫-uga	aah-shh-u-g-ah
ToPull	tira	t-e-er-ah
ToPull-Trahere	trew-rə	t-er-eh-w-er-aah
ToPush	əmpɛɲ-ə	aah-m-p-eh-VdPalatalNasal-aah
ToThrow	xita	xha-e-t-ah
ToThrow-Lanceare	λəns-a	yuh-aah-n-s-ah
ToTie	λίγα	yuh-e-juh-ah
ToSew	kuz-i	k-u-zz-e
ToCount	kumta	k-u-m-t-ah
ToCount-Enumerare	enumera	ay-n-u-m-ay-er-ah
ToSay	di	d-e
ToSing-AncestralClass	kənta	k-aah-n-t-ah
ToPlay-Jiocare	zu-ga	gzah-u-g-ah
ToFloat	fluktua	f-l-u-k-t-u-ah
ToFlow	flui	f-l-u-e
ToFlow-Colare	kuła	k-u-ssha-ah
ToFlow-Excurrere	ə-sko-rə	aah-s-k-oh-r-aah
ToFlow-Currere	ko-rə	k-oh-r-aah
ToFreeze	ʒəla	gzah-aah-l-ah
ToFreeze-Glaciare	glə-s-a	g-l-aah-s-ah
ToBurn-Cremare	krəma	k-r-aah-m-ah
ToBurn-Flammare	fłama	f-ssha-ah-m-ah
ToBurn-Incendere	ənsendrə	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	pok	p-euh-k
Other	alt-rə	ah-l-t-er-aah
Big-Grandem	gran	j-r-ah-n
Long-Longum	λο-η	yuh-oh-nya
Long-Largum	Λark	yuh-ah-er-k
Wide-Amplum	ample-	ah-m-p-l-aah
		1

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-et	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
Right-Dextrem	d-e-strə-	d-ay-s-t-er-aah
Right-Directum	dret	d-er-eh-t
Red-Russus	ro-s	r-oh-s
Red-Vermiculus	bərmελ	b-aah-r-m-eh-yuh
Red-Rubeus	ru-dze	r-u-VdPalatoAlveolarSibilant-ay
Green	ver-t	v-eh-er-t
One	'un	u-n
Two-Duos	d-os	d-oh-s
Three	'tr-εs	t-r-eh-s
Four	kwa-trə	k-w-ah-t-er-aah
Five	ˈsiŋk	s-e-nya-k
Here	-a-ki-	ah-k-e
There	ә-հа-	aah-yuh-ah
Who-Qui	k-i-	k-e
What	k-ε-	k-eh
When-Quando	kwan	k-w-ah-n
How-Quomodo	kəm	k-euh-m
Not	no-	n-oh
Not-Nec	ni-	n-e
And-Et	i-	e

### Walloon

Cognate	IPA	Sounds
l	dzı	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	-əm	euh-m
Child	ε-fα̃	eh-f-NasalA
Mother	me-r	m-ay-VlUvularTrill
Father	pε:-r-	p-Eh-r
Fish-Pescion	p-εhõ	p-eh-h-on
Bird-Avicellum	u:h-ε:	U-h-Eh
Louse	pju	p-jg-u
Snake	sjerb-e	s-jg-eh-rr-p-ehn
Worm	vjer	v-jg-eh-VlUvularTrill
Tree	o:-b	O-b
Fruit	fry	f-VlUvularTrill-eeh
Flower	tlø:r	f-l-o-rr
Tail	kow	k-euh-w
Feather	plom-	p-l-euh-m
Feather-Penna	pe-n-	p-ay-n
Hair-Capillus	∬ivja-	ts-e-v-jg-ah
Head-Testa	ţεs	ts-eh-s

Nose	***	n ov
Mouth	ne bok	n-ay b-euh-k
Mouth-Gula		
	gø:j-	g-o-jg
Wing	el-	ay-l
Sun	solo-	s-euh-l-euh
Moon	løn-	1-uu-n
Star	-st-ø:-l-	s-t-o-l
Water	€:W-	Eh-w
Rain	bln:-r	p-l-U-rr
River-Riparia	rivi:-r	r-e-v-E-rr
Lake	lak	l-ah-k
Sea	mer-	m-ay-rr
Salt	se	s-ay
Earth	t-ε:- <b>r</b> -	t-Eh-rr
Sky	S-1:R	s-E-rr
Wind	v-ẽ	v-ehn
Fire-Focus	f-ø:	f-0
Year	ã	NasalA
Name-Nomen	nõ	n-on
Tongue	lēu	l-eu_nasalized_diphthong
ToDrink	p@:R-	b-o-rr
ToEat-Manducare	mani:	m-ah-VdPalatalNasal-E
ToSuck	sysi:	s-eeh-s-E
ToKnow-Sapere	sav-ø:r-	s-ah-v-o-VlUvularTrill
ToKnow-Cognoscere	ki-noh	k-e-n-euh-h
ToThink-Pensare	ρε-se	p-ehnn-s-ay
ToSleep	dwarmi	d-w-ah-rr-m-e
ToDie	mori	m-euh-VIUvularTrill-e
ToKill-Tutari	tuw-e	t-u-w-ay
ToFight-Battuere	bat-e	b-ah-t-ay
ToHunt-Captiare	€-s-i:	ts-eh-s-E
ToCut-Taliare	tεji:	t-eh-jg-E
ToSplit-Findere	fε̃-t	f-ehn-t
ToSplit-Partire	po:rti	p-LongOpenMidBackRounded-VlUvularTrill-t-e
ToDig-Cavare	ça:v-le	sh-aay-v-l-ay
ToSwim-Navigare	nεdʒi:	n-eh-VdPalatoAlveolarSibilant-E
ToFly	vole	v-euh-l-ay
ToWalk	fimine	ts-e-m-e-n-ay
ToWalk-Marcher	maːʀʧī:	m-A-VlUvularTrill-ts-E
ToCome	vini	V-e-n-e
ToLieAsInABed-lacere	dzere	VdPalatoAlveolarSibilant-ay-r-ay
ToStand	£S	eh-s
ToStand-Levare	ləve	l-aah-v-ay
ToStand-Altiare	ho:-s-i:	h-LongOpenMidBackRounded-s-E
ToTurnIntransitive	tu:rne-	t-U-r-n-ay
ToTurnIntransitive-AncestralClass3	vike	v-e-rr-ay
ToFall	∬-ε:R-	ts-Eh-VlUvularTrill
ToFall-Tumbare	tum-e-	t-u-m-ay
ToHold	tin-i	t-e-n-e
ToSqueeze-Serare	se-re	s-eh-VlUvularTrill-ay
ToSqueeze-Stringere	stringe	s-t-r-e-n-j-ay
ToRub	froj	f-r-oj_diphthong
ToRub-Frictare	frote	f-rr-oh-t-ay
ToWash	lave	1-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	dzete	VdPalatoAlveolarSibilant-eh-t-ay
ToThrow-Lanceare	lanc-i:-	1-ah-n-tya-E
ToTie	loji:	1-euh-jg-E
ToSew	kø:z	k-o-zz
ToCount	kõte	k-on-t-ay
ToSay	qi:R	d-E-rr
ToSing-AncestralClass	tiα-te	ts-NasalA-t-ay
ToPlay-Jiocare	dzuw-e	VdPalatoAlveolarSibilant-u-w-ay
ToFlow-Colare	kole	k-euh-l-ay
ToFreeze	dzale	VdPalatoAlveolarSibilant-ah-l-ay
ToBurn-Brojan	pra:le	b-rr-U-l-ay
All-Totus	to	t-euh
Few	põ	p-on
Other	õ-t	on-t
Big-Grandem	gra	j-rr-NasalA
Long-Longum	lõ	l-on
Heavy	grav	j-r-ah-v
Small	pi-ti	p-e-t-e
Short	kn:r	k-U-rr
Short-Brevis	pret	b-rr-ay-f
Narrow-Strictus	-str-ø:	s-t-rr-o
Thin	minu	m-e-n-u
Thin-Subtilis	su:-ti	s-U-t-e
Right-Directum	drø:t	d-r-o-t
Red-Rubeus	ro-tʃ	r-euh-ts
Green	Λε <b>κ</b>	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
There	la-	1-ah
Who-Qui	k-i:-	k-E
What	kwe:-	k-w-Eh
When-Quando	kwand	k-w-ah-n-d
How-Quomodo	kəme	k-euh-m-ehnn
Not-Nec	nẽ-	n-ehn
And-Et	ε-	eh

## Friulian

Cognate	IPA	Sounds
l	jo	jg-oh
We	no:	n-O
YouPlural	Vo:	v-O
YouSingular	tu	t-u
Woman	fε-mi-n-ε	f-eh-m-e-n-eh
Woman-Mulier	mui:r	m-u-E-r
Woman-Domina	done	d-euh-n-ay
ManHumanBeing	-əm	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:1	n-ay-m-A-l

Animal-Bestia	bis	b-e-s
Fish-Piskem		p-eh-s
Bird-Avicellum	pes uʧje-l	u-ts-jg-eh-l
Louse	p-edo-li-	p-ay-d-oh-l-e
Snake	s-arp-int	s-ah-r-p-e-n-t
Worm	vjer	v-jg-eh-r
Tree	arbul	ah-r-b-u-l
Forest	selve	s-eh-l-v-ay
Stick	pa:l-	p-A-l
Fruit	frut	f-r-u-t
Flower	flo:r	f-l-O-r
Tail	kode	k-euh-d-eh
Feather	plume	p-l-u-m-eh
Feather-Penna	-	
	pε-ne	p-eh-n-ay
Hair	p-e:1	p-ai-l
Hair-Capillus	cavej	tya-ah-v-ej_diphthong
Head Head-Testa	ca:f	tya-A-f
	teste	t-eh-s-t-ay
Nose	na:s	n-A-s
Mouth	bo-ce	b-euh-tya-eh
Mouth-Gula	gole	j-euh-l-ay
Wing	ale	ah-l-ay
Sun-Soliculus	soreli-	s-oh-r-ay-l-e
Moon	lune	1-u-n-ay
Star	-st-ε-le	s-t-eh-l-ay
Water	a-g-e	ah-j-ay
Rain	ploje	p-l-oh-jg-ay
River	flum	f-l-u-m
Lake	la:t	1-A-t
Sea	ma:r-	m-A-r
Salt	sa:1	s-A-1
Earth	tjε-re	t-jg-eh-r-ay
Fog-Fumata	fumate	f-u-m-ah-t-ay
Sky	<b>∮</b> -i:1	ts-E-l
Wind	'v-int	v-e-n-t
Smoke	fum	f-u-m
Fire-Focus	f-u:k	f-U-k
Year	a-ŋ	ah-nya
Name-Nomen	noŋ	n-euh-nya
Tongue	'lεng-ε	l-eh-n-j-eh
ToDrink	bevi	b-ay-v-e
ToEat-Manducare	таŋıа:	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-pos-i	k-oh-VdPalatalNasal-oh-s-e
ToThink-Pensare	peŋsa:	p-ay-nya-s-A
ToFear	temi	t-ay-m-e
ToFear-Tremere	trim-a:	t-r-e-m-A
ToSleep	d-urmi:	d-u-r-m-E
ToLive	vivi	v-e-v-e
ToDie	muri:	m-u-r-E
ToKill-Mactare	matf-a:	m-ah-ts-A
ToFight-Battuere	bat-i	b-ah-t-e
ToHunt-Captiare	ca-tʃ-aː	tya-ah-ts-A
ToHit	pulsa:-	p-u-l-s-A
[		<u> </u>

ToCut	s a n'	c ox A
ToCut-Excurtare	s-e-a: skurta:	s-ay-A s-k-u-r-t-A
ToCut-Taliare		s-k-u-r-t-A t-ah-jg-A
	taja:	
ToSplit Portire	dividi	d-e-v-e-d-e
ToSplit Congress	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	vini:-	v-e-VdPalatalNasal-E
ToLieAsInABed-lacere	je-si	jg-ay-s-e
ToSit-Sedentare	senta:	s-ay-n-t-A
ToStand	-sta:	s-t-A
ToStand-Levare	leva:	l-ay-v-A
ToStand-Altiare	-altʃ-aː	ah-l-t-shh-A
ToTurnIntransitive	torna:	t-oh-r-n-A
ToTurnIntransitive-Gyrare	dʒira:	VdPalatoAlveolarSibilant-e-r-A
ToTurnIntransitive-AncestralClass3	dzira:	VdPalatoAlveolarSibilant-e-r-A
ToFall	fjade	ts-jg-ah-d-ay
ToHold	tinji	t-e-n-jg-e
ToSqueeze	e-sprim-i	ay-s-p-r-e-m-e
ToSqueeze-Stringere	strengi:	s-t-r-eh-n-j-E
ToRub	fre-a	f-r-ay-ah
ToWash	lava:	l-ah-v-A
ToWipe-Exsucare	s-u-ja:	s-u-jg-A
ToPull	tira:	t-e-r-A
ToPull-Pulsare	pulsa:	p-u-l-s-A
ToPull-Trahere	traj	t-r-aj_diphthong
ToThrow-Lanceare	lantʃa:	l-ah-n-ts-A
ToTie	le-a:	l-ay-A
ToSew	kuzi	k-u-zz-e
ToCount	konta:	k-oh-n-t-A
ToSay	di:	d-E
ToSing-AncestralClass	canta:	tya-ah-n-t-A
ToPlay-Jiocare	dzuj-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-tʃ-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-1-tya
Many-Tantus	tanc	•
		t-ah-n-tya
Few Other	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-ful	p-e-ts-u-l
Short	kurt	k-u-r-t
Narrow-Strictus	-str-εt	s-t-r-eh-t

Thin	minu:-t	m-e-n-U-t
Thin-Subtilis	su-ti:l	s-u-t-E-l
Right-Directum	'drɛt	d-r-eh-t
Red-Russus	ro-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-tri	k-w-ah-t-r-e
Five	ˈʧiŋk	ts-e-nya-k
Here	-a-ki-	ah-k-e
Who-Qui	kwi-	k-w-e
What	∬-e-	ts-ay
When-Quando	kwant	k-w-ah-n-t
How-Quomodo	∯emu: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-meje	f-ay-m-ay-jg-ay
Woman-Mulier	mu-jere-	m-u-jg-ay-r-ay
Woman-Domina	doam-nə	d-midback_diphthong_romanian-m-n-aah
ManHumanBeing	-om	oh-m
Wife-Mulier	mu-jere	m-u-jg-ay-r-ay
Husband	mərit	m-aah-r-e-t
Husband-Socius	sots	s-oh-VlAlveolarSibilantAffricate
Father-Tata	tatə	t-ah-t-aah
Animal	-nəma-je	n-aah-m-ah-jg-ay
Fish-Piskem	pe∫te-	p-ay-shh-t-ay
Bird-Passerem	pa-səre-	p-ah-s-aah-er-ay
Louse	p-ədu-kje-	p-aah-d-u-k-jg-ay
Snake	∫-arp-e	shh-ah-er-p-ay
Snake-Serpens	∫-arpe	shh-ah-er-p-ay
Worm	vjerme	v-jg-ay-r-m-ay
Tree	arbore-	ah-r-b-oh-r-ay
Stick	par	p-ah-er
Fruit	fru-kt	f-r-u-k-t
Flower	floare-	f-l-midback_diphthong_romanian-er-ay
Tail	coadə	tya-midback_diphthong_romanian-d-aah
Feather-Penna	pa-nə	p-ah-n-aah
Hair	p-ər	p-aah-er
Head	kap	k-ah-p
Nose	nas	n-ah-s
Mouth	bu-kə	b-u-k-aah
Mouth-Gula	gurə	j-u-er-aah
Sun	soare-	s-midback_diphthong_romanian-er-ay
Moon	lunə	1-u-n-aah
Star	-st-ea	s-t-midfront diphthong romanian
Water	a-p-ə	ah-p-aah
Rain	ploaje	p-l-midback_diphthong_romanian-jg-ay

Diam Diam		
River-Rivus	r <del>i</del> -w-	r-eee-W
Lake	lak	l-ah-k
Sea	mare	m-ah-r-ay
Salt	sare-	s-ah-r-ay
Earth	ts-a-rə	VIAlveolarSibilantAffricate-ah-r-aah
Fog-Nebula	negurə	n-ay-g-u-r-aah
Fog-Caecia	tfeatf-ə	ts-midfront_diphthong_romanian-ts-aah
Sky	ff-er	ts-ay-er
Wind	v-int	v-eee-n-t
Ice	dger-	VdPalatoAlveolarSibilant-ay-r
Smoke	fum	f-u-m
Fire-Focus	f-ok	f-oh-k
Year	an	ah-n
Name-Nomen	nume-	n-u-m-ay
Tongue	ˈlimb-ə	l-e-m-b-aah
ToDrink	bea	b-midfront_diphthong_romanian
ToEat-Manducare	mɨnka	m-eee-n-k-ah
ToBite-Morsicare	murseka	m-u-r-s-ay-k-ah
ToSuck	sudze	s-u-VdPalatoAlveolarSibilant-ay
ToSpit-Exconspuere	-skujpa	s-k-u-jg-p-ah
ToKnow	∫ti	shh-t-e
ToKnow-Cognoscere	ku-noaste	k-u-n-midback diphthong romanian-shh-t-ay
ToThink	k-udzeta	k-u-VdPalatoAlveolarSibilant-ay-t-ah
ToThink-Pensare	pə-sa	p-aah-s-ah
ToFear	teme	t-ay-m-ay
ToSleep	d-ormi	d-oh-r-m-e
ToLive	vi-a	v-e-ah
ToDie	muri	m-u-r-e
ToKill	n-eka	n-ay-k-ah
ToKill-Occidere	u-∬ide	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	təja	t-aah-jg-ah
ToSplit	divide	d-e-v-e-d-ay
ToSplit-Separare	separa	s-ay-p-ah-r-ah
ToStab	pundze	p-u-n-VdPalatoAlveolarSibilant-ay
ToScratch	rade	r-ah-d-ay
		n-ah-v-e-g-ah
ToSwim-Navigare	naviga	zz-b-u-er-ah
ToFly-Exvolare	zbura	
ToWalk-Mergere	merdze	m-ay-r-VdPalatoAlveolarSibilant-ay
ToCome	veni	v-ay-n-e
ToLieAsInABed	ekstinde	ay-k-s-t-e-n-d-ay
ToLieAsInABed-lacere	zə-ffea	zz-aah-ts-midfront_diphthong_romanian
ToSit	∫-edea	shh-ay-d-midfront_diphthong_romanian
ToStand	-sta	s-t-ah
ToStand-Levare	l-ua	l-u-ah
ToTurnIntransitive	turna	t-u-r-n-ah
ToTurnIntransitive-Torquere	toartse	t-midback_diphthong_romanian-r-ts-ay
ToFall	kədea	k-aah-d-midfront_diphthong_romanian
ToHold	tsin-e	VlAlveolarSibilantAffricate-e-n-ay
ToSqueeze	-sk-reme	s-k-r-ay-m-ay
ToSqueeze-Stringere	strindze	s-t-r-eee-n-VdPalatoAlveolarSibilant-ay
ToRub	freka	f-r-ay-k-ah
ToWash	la	1-ah
ToWipe-Extergere	sterdze	shh-t-ay-r-VdPalatoAlveolarSibilant-ay
ToWipe-Exsucare	u-sk-a	u-s-k-ah

To Dull Dulgare		
ToPull-Pulsare ToPull-Trahere	pulsa	p-u-l-s-ah
	tradze	t-r-ah-VdPalatoAlveolarSibilant-ay
ToPush	impindze	eee-m-p-e-n-VdPalatoAlveolarSibilant-ay
ToThrow-Eruncare	a-ruŋka	ah-er-u-nya-k-ah
ToTie	lega	l-ay-j-ah
ToSew	coas-e	tya-midback_diphthong_romanian-s-ay
ToCount-Enumerare	-numara	n-u-m-ah-r-ah
ToSay	zi∯e	zz-e-ts-ay
ToSay-Exponere	spune	s-p-u-n-ay
ToSing-AncestralClass	kɨnta	k-eee-n-t-ah
ToPlay-Jiocare	ʒu-ka	gzah-u-k-ah
ToFloat	fluctua	f-l-u-tya-t-u-ah
ToFlow-Excurrere	skurdze	s-k-u-er-VdPalatoAlveolarSibilant-ay
ToFlow-Currere	kurdze	k-u-er-VdPalatoAlveolarSibilant-ay
ToFreeze-Inglaciare	ing-ets-a	eee-n-j-ay-VlAlveolarSibilantAffricate-ah
ToBurn-Ardere	arde	ah-er-d-ay
ToBurn-Incendere	intfindze	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	mare	m-ah-er-ay
Long-Longum	lung	l-u-n-j
Long-Largum	larg	l-ah-r-i
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	mərunt	m-aah-r-u-n-t
Thin-Subtilis	subtsire-	s-u-b-VlAlveolarSibilantAffricate-e-r-ay
Right-Directum	drept	d-er-ay-p-t
Red-Russus	ro-su-	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-Duos	dowa	d-oh-w-aah
Three	tr-ej-	t-r-ej_diphthong
Four	p-a-tru	p-ah-t-r-u
Five	fint	ts-e-n-ts
There	la-	1-ah
Who-Quem	tf-ine	ts-e-n-ay
What	∯-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	ſi-	shh-e

#### Appendix 5 - Segment Groups

#### **Pulmonic Consonants**

Manner	Bila	abial	Labial- Velar	Lat De	oio- ntal	Linguo- Labial	Der	ntal	Alve	eolar	Post- Alveolar	Retroflex	Pa	latal	Ve	elar	Uvu	lar	Pharyngeal Epiglottal	Glottal
Nasal		m								n				ŋ		ŋ				
Stop	p	b	$k^w g^w$						t	d			c	Ŧ	k	g				
Sibilant, Fricative									S	Z	$\int$ 3									
Fricative		β		f	V		θ	ð					ç	j	X	γ		R		h
Approximant												J		j						
Tap/Flap										ſ										
Trill										r							R			
Lateral, Fricative																				
Lateral, Approximant										1				Λ						
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.

#### Vowels

	Front	Near- Front	Central	Near-Back	Back
Close	i • y		i		u
Near-close		I		$\mho$	
Close-mid	e • ø		Э		O
Mid			Э		
Open-mid		œ•ε			Э
Near-open			g		
Open		a			α

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	e:				O;
Open-mid		z3			3ï
Open	Ø٢		aː		a:

#### **Pulmonic Affricates**

			_					
Manner	Bilabial	Labio- Dental	Alveolar	Palato- Alveolar	Velar	Uvular	Pharyngeal Epiglottal	Glottal
Sibilant			ts	tſ				
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.

## Other Segments

e Close-mid Front Vocoid Vowel Continuant	g Velar Voiced Pulmonic Stop Occlusive
Or Mid Back Rounded Vocoid Long Vowel Continuant	Post-Alveolar Voiced Pulmonic Sibilant Fricative Strident Obstruent Continuant
<b>3</b> 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	3 Open-mid Back Rounded Vocoid Vowel Continuant
Palato-Alveolar Voiced Sibilant Affricate	I 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
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
† Alveolar Pulmonic Stop Occlusive	UX 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	ex Mid Front Vocoid Long Vowel Continuant
m Bilabial Voiced Pulmonic Nasal Occlusive	a Open Near-Front Vocoid Vowel Continuant
f Alveolar Voiced Pulmonic Tap/Flap Rhotic Vibrant Liquid	${oldsymbol \mathcal E}$ Near-open Central Rounded Vowel
Open-mid Near-Front Rounded Vocoid Vowel Continuant	8 Open-mid Near-Front Vocoid Vowel Continuant
1 Alveolar Vocoid Voiced Pulmonic Lateral Approximant Rhotic Liquid	r Alveolar Voiced Pulmonic Trill Rhotic Vibrant Liquid
X Velar Pulmonic Fricative Obstruent Continuant	$\Lambda$ Palatal Vocoid Voiced Pulmonic Lateral Approximant Rhotic Liquid
<b>B</b> Uvular Voiced Pulmonic Fricative Rhotic Strident Obstruent Continuant Liquid	ix Close Front Vocoid Long Vowel Continuant
n Palatal Voiced Pulmonic Nasal Occlusive	O Mid Front Vowel Diphthong
h Glottal Pulmonic Fricative	$\widetilde{e}\widetilde{j}$ Mid Front Nasal Vowel Diphthong
$\tilde{\mathbf{j}}$ Open-mid Back Rounded Nasal Vowel	$\widetilde{\mathbf{Q}}$ Near-close Back Nasal Vowel
<b>1</b> Close Front Nasal Vowel	$oldsymbol{ ilde{v}}$ Near-open Central Rounded Nasal Vowel
ff Palato-Alveolar Pulmonic Sibilant Affricate	† Close Central Vowel

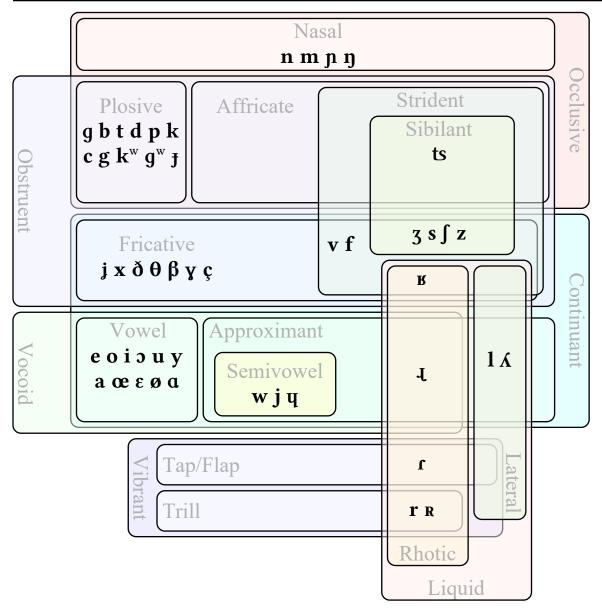
### Appendix 5 - Segment Groups

p Bilabial Pulmonic Stop Occlusive	Z Alveolar Voiced Pulmonic Sibilant Fricative Strident Obstruent Continuant
Dental Voiced Pulmonic Fricative Obstruent Continuant	K Velar Pulmonic Stop Occlusive
ts Alveolar Pulmonic Sibilant Affricate Occlusive Strident	ar Open Central Vocoid Long Vowel Continuant
Mid Front Nasal Vowel Diphthong	R Uvular Pulmonic Trill Rhotic Vibrant Liquid
aj Mid Front Vowel Diphthong	Propen-mid Near-Front Vocoid Long Vowel Continuant
Hand Dental Pulmonic Fricative Obstruent Continuant	ej Mid Front Vowel Diphthong
<b>g</b> Mid Front Vowel Diphthong	Close-mid Back Rounded Nasal Vowel
$\tilde{\mathbf{e}}$ Close Back Nasal Vowel	eta Bilabial Voiced Pulmonic Fricative Obstruent Continuant
Alveolar Voiced Velarized Pulmonic Lateral Approximant	U Labial-Palatal Vocoid Semivowel Voiced Approximant Continuant
Ø∵Open Front Rounded Vocoid Long Vowel	a Mid Front Vowel Diphthong
Ø Close-mid Front Rounded Vocoid Vowel Continuant	C Palatal Pulmonic Stop Occlusive
g Velar Voiced Pulmonic Stop Occlusive	<b>3</b> Mid Central Vowel
Ej Mid Front Vowel Diphthong	e Mid Front Vowel Diphthong
k Labial-Velar Pulmonic Stop Occlusive	Y Velar Voiced Pulmonic Fricative Obstruent Continuant
n Velar Voiced Pulmonic Nasal Occlusive	G Labial-Velar Voiced Pulmonic Stop Occlusive
<b>ẽ</b> Mid Front Nasal Vowel Diphthong	<b>Q</b> Open Back Vocoid Vowel Continuant
J Palatal Voiced Pulmonic Stop Occlusive	$\widetilde{\mathcal{E}}$ Open-mid Near-Front Nasal Vowel
3. Open-mid Back Rounded Vocoid Long Vowel Continuant	$\widetilde{\mathbf{U}}$ Open Back Nasal Vowel
Retroflex Vocoid Voiced Pulmonic Approximant Rhotic Liquid	Ç Palatal Pulmonic Fricative Obstruent Continuant
Q Open Back Long Vowel	Palatal Nasal Approximant
e Open-mid Near-Front Rounded Nasal Vowel Diphthong	75 Near-close Near-Back Rounded Vowel

### Appendix 5 - Segment Groups

$\tilde{\mathfrak{e}}_{_{_{N}}}$	Front Nasal Vowel Diphthong

Appendix 6 - Euler Feature Diagram



## IPA Segments

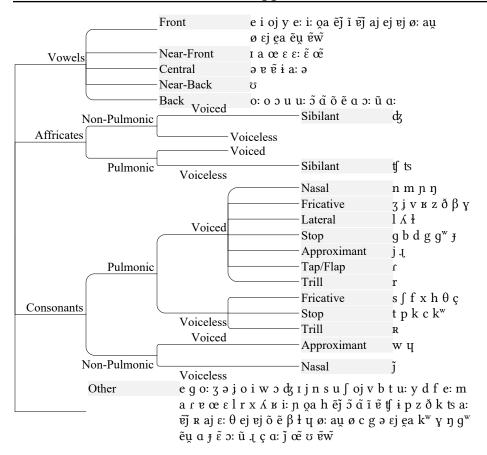
ẽ	θ β		ţſ	
Close Back Nasal Vowel  Close Back Nasal Vowel  Obstruent Continuant		03B2 Bilabial Voiced Pulmonic Fricative Obstruent Continuant	92A7 Palato-Alveolar Pulmonic Sibilant Affricate	
ts dz		j	3	
02A6	02A4	029D	0292	
Alveolar Pulmonic Sibilant Affricate Occlusive Strident  Palato-Alveolar Voiced Sibilant Affricate		Palatal Voiced Pulmonic Fricative Obstruent Continuant	Post-Alveolar Voiced Pulmonic Sibilant Fricative Strident Obstruent Continuant	
λ	$\mho$	ſ	R	
028E	028A	0283	0281	
Palatal Vocoid Voiced Pulmonic Lateral Approximant Rhotic Liquid	Near-close Near-Back Rounded Vowel	Post-Alveolar Pulmonic Sibilant Fricative Strident Obstruent Continuant	Uvular Voiced Pulmonic Fricative Rhotic Strident Obstruent Continuant Liquid	
R	R		n	
0280 Uvular Pulmonic Trill Rhotic Vibrant Liquid	027E Alveolar Voiced Pulmonic Tap/Flap Rhotic Vibrant Liquid	927B Retroflex Vocoid Voiced Pulmonic Approximant Rhotic Liquid	9272 Palatal Voiced Pulmonic Nasal Occlusive	
1	I	i	Ч	
9268 Alveolar Voiced Velarized Pulmonic Lateral Approximant	026A Near-close Near-Front Vowel	0268 Close Central Vowel	0265 Labial-Palatal Vocoid Semivowel Voiced Approximant Continuant	
y g		£	8	
0263 Velar Voiced Pulmonic Fricative Obstruent Continuant	0261 Velar Voiced Pulmonic Stop Occlusive	925F Palatal Voiced Pulmonic Stop Occlusive	025B Open-mid Near-Front Vocoid Vowel Continuant	
Э	Э	α	g	
0259	0254	0251	0250	
Close-mid Central Vowel Open-mid Back Rounded Vocoid Vowel Continuant		Open Back Vocoid Vowel Continuant	Near-open Central Rounded Vowel	

Э	ũ	œ	ŋ	
ø1DD Mid Central Vowel			014B Velar Voiced Pulmonic Nasal Occlusive	
ĩ	ĩ Ø		ð	
0129 Close Front Nasal Vowel			00F0 Dental Voiced Pulmonic Fricative Obstruent Continuant	
ç	Z	y	X	
00E7	007A	0079	0078	
Palatal Pulmonic Fricative Obstruent Continuant	Alveolar Voiced Pulmonic Sibilant Fricative Strident Obstruent Continuant	Close Front Rounded Vocoid Vowel Continuant	Velar Pulmonic Fricative Obstruent Continuant	
w	V	u	t	
Description of the continuant		0075 Close Back Rounded Vocoid Vowel Continuant	0074 Alveolar Pulmonic Stop Occlusive	
S	r	p	O	
Alveolar Pulmonic Sibilant Fricative Strident Obstruent Continuant  0072  Alveolar Voiced Pulmonic Trill Rhotic Vibrant Liquid		0070 Bilabial Pulmonic Stop Occlusive	006F Close-mid Back Rounded Vocoid Vowel Continuant	
n m		1	k	
Alveolar Voiced Pulmonic Nasal Occlusive  006D Bilabial Voiced Pulmon Nasal Occlusive		006C Alveolar Vocoid Voiced Pulmonic Lateral Approximant Rhotic Liquid	006B Velar Pulmonic Stop Occlusive	
j	j i		g	
Palatal Vocoid Semivowel Voiced Pulmonic Approximant Continuant	0069 Close Front Vocoid Vowel Continuant	0068 Glottal Pulmonic Fricative	Velar Voiced Pulmonic Stop Occlusive	

f	f e d		c	
0066	0065	0064	0063	
Labio-Dental Pulmonic Fricative Strident Obstruent Continuant	icative Strident Obstruent Vowel Continuant		Palatal Pulmonic Stop Occlusive	
b	a	$g^{\mathrm{w}}$	ĩ	
0062	0061	0261, 02B7	025B, 0303	
Bilabial Voiced Pulmonic Stop Occlusive	Open Near-Front Vocoid Vowel Continuant	Labial-Velar Voiced Pulmonic Stop Occlusive	Open-mid Near-Front Nasal Vowel	
:3	εj	õ	DI.	
025B, 02D0	025B, 006A	0254, 0303	0254, 02D0	
Open-mid Near-Front Vocoid Long Vowel Continuant	Mid Front Vowel Diphthong	Open-mid Back Rounded Nasal Vowel	Open-mid Back Rounded Vocoid Long Vowel Continuant	
ã	a:	ę	ej	
0251, 0303	0251, 02D0	0250, 0303	0250, 006A	
Near-close Back Nasal Vowel Open Back Long Vowel		Near-open Central Rounded Nasal Vowel Mid Front Vowel Diphth		
œ̃	œ̃ ø:		O:	
0153, 0303	00F8, 02D0	0075, 02D0	006F, 02D0	
Open-mid Near-Front Rounded Nasal Vowel Diphthong  Open Front Rounded Vocoid Long Vowel		Close Back Rounded Long Vowel	Mid Back Rounded Vocoid Long Vowel Continuant	
oj k <sup>w</sup>		ĵ	i	
006F, 006A Mid Front Vowel Diphthong	006B, 02B7 Labial-Velar Pulmonic Stop Occlusive	006A, 0303 Palatal Nasal Approximant	0069, 02D0 Close Front Vocoid Long Vowel Continuant	
e:	ej	a:	aj	
Mid Front Vocoid Long Vowel Continuant  0065, 006A  Mid Front Vowel Diphthong		0061, 02D0 Open Central Vocoid Long Vowel Continuant	0061, 006A Mid Front Vowel Diphthong	

ẽu̯	ẽụ ẽj ọa		ęа
1EBD, 0075, 032F	1EBD, 006A, 0303	006F, 032F, 0061	0065, 032F, 0061
Mid Front Nasal Vowel Diphthong  Mid Front Nasal Vowel Diphthong		Mid Front Vowel Diphthong	Mid Front Vowel Diphthong
aŭ ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		êĵ	
0061, 0075, 032F	0250, 0303, 0077, 0303	0250, 0303, 006A, 0303	
Mid Front Vowel Diphthong	Mid Front Nasal Vowel Diphthong	Mid Front Nasal Vowel Diphthong	

#### Appendix 8 - Feature Tree

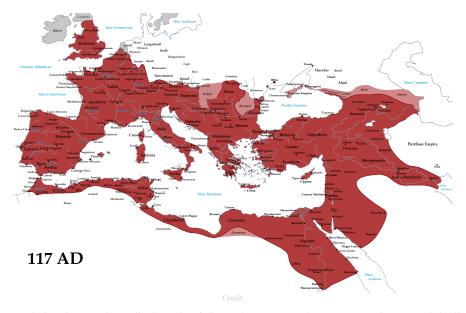


### Appendix 9 - Diacritics

# Diacritics

	Undefined escape character	~	Nasalized	••	Centralized
+	Advanced	_	Retracted	~	RisingTone
0	Voiceless		Implosive	ı	Syllabic
,	Ejective	2	Pharyngealized	^	Falling tone
^	Non-syllabic	٦	No audible release	1	Rhotic hook
4	Advanced tongue root	<b>.</b>	Apical	"	Extra low tone
	Low rising tone	c	Less rounded	-	Dental
~	Velarized or Pharyngealized	$\nearrow$	Global fall	γ	Velarized
,	High tone	_	High rising tone	h	Aspirated
j	Palatalized	~	Creaky voiced	`	Low tone
1	Lateral release	-	Mid tone		Laminal
~	Linguo-Labial	n	Nasal release	)	More rounded
т	Lowered	F	Retracted tongue root	7	Global rise
~	Rising falling tone	1	Raised	<b>"</b>	Extra high tone
••	Breathy voiced	~	Voiced	W	Labialized
	Extra short	×	Mid-centralized	$\downarrow$	Down-step
1	Up-step	Ĭ	Long	•	Half-long
	Indeterminacy in french vowels		Begin Non-segmental notation		End non-segmental notation
4	Voiced epiglottal fricative	!	Post-alveolar click		Minor group
	Dental click		Major group		Alveolar lateral click
‡	Palatal click	0	Voiceless descender	_	Combining macron
	Tie-bar below		Tie-bar above	ł	Ready made combination
$\longrightarrow$	Becomes		Separator		

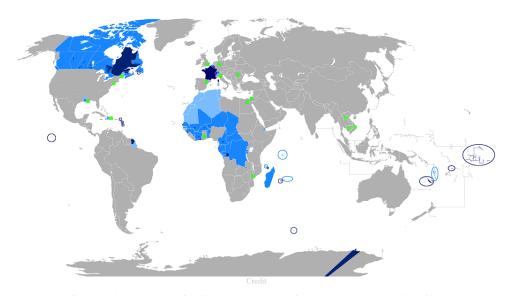
#### Latin



A classical language belonging to the Italic branch of the Indo-European languages. Latin was originally spoken in the area around Rome, known as Latium. Through the power of the Roman Republic, it became the dominant language in Italy, and subsequently throughout the western Roman Empire, before eventually becoming a dead language. Latin has contributed many words to the English language. In particular, Latin (and Ancient Greek) roots are used in English descriptions of theology, the sciences, medicine, and law.

By the late Roman Republic (75 BC), Old Latin had been standardised into Classical Latin. Vulgar Latin was the colloquial form spoken at that time and attested in inscriptions and the works of comic playwrights like Plautus and Terence[3] and author Petronius. Late Latin is the written language from the 3rd century; its colloquial form Vulgar Latin developed in the 6th to 9th centuries into the Romance languages, such as Italian, Sardinian, Venetian, Neapolitan, Sicilian, Piedmontese, Lombard, French, Franco-Provençal, Occitan, Corsican, Ladin, Friulan, Romansh, Catalan/Valencian, Aragonese, Spanish, Asturian, Galician, and Portuguese. Medieval Latin was used as a literary language from the 9th century to the Renaissance which used Renaissance Latin. Later, Early Modern Latin and New Latin evolved. Latin was the language of international communication, scholarship and science until well into the 18th century, when vernaculars (including the Romance languages) supplanted it. Ecclesiastical Latin remains the official language of the Holy See and the Roman Rite of the Catholic Church. Latin is a highly inflected language, with three distinct genders, six or seven noun cases, five declensions, four verb conjugations, six tenses, three persons, three moods, two voices, two or three aspects, and two numbers. The Latin alphabet is derived from the Etruscan and Greek alphabets and ultimately from the Phoenician alphabet.

#### **French**

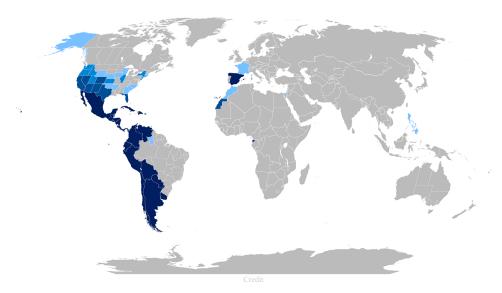


A Romance language of the Indo-European family. It descended from the Vulgar Latin of the Roman Empire, as did all Romance languages. French evolved from Gallo-Romance, the Latin spoken in Gaul, and more specifically in Northern Gaul. Its closest relatives are the other languages d'oïl—languages historically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

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

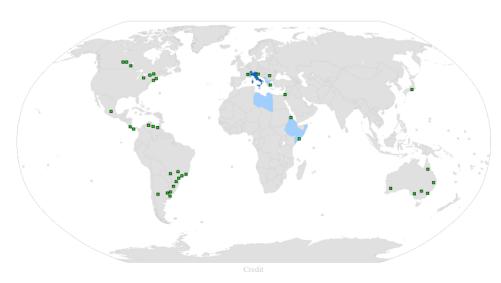
French is an official language in 29 countries across multiple continents, most of which are members of the Organisation internationale de la Francophonie (OIF), the community of 84 countries which share the official use or teaching of French. French is also one of six official languages used in the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

#### **Spanish**



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

#### **Italian**



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

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

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

#### Appendix 10 - Languages

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

#### **Brazilian Portuguese**



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

#### **Portuguese**



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

#### Catalan



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

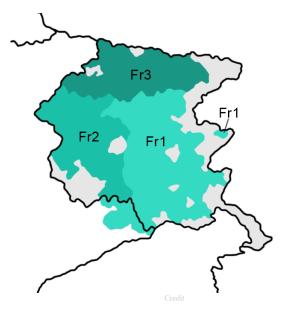


#### Appendix 10 - Languages

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

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

#### Romanian



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

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