

Vowels and Diphthongs - Minimal Pairs

/aɪ/-/aʊ/: file-foul, file-fowl, isle-owl, bound-bind, ground-grind, found-find, found-fined, round-rind, hound-hind, mound-mind, mound-mined, lied-loud, pride-proud, bite-bout, byte-bout, flight-flout, right-rout, spite-spout, write-rout, douse-dice, mouse-mice, spouse-spice, buyer-bower, dyer-dour, flier-flour, flier-flower, flyer-flour, flyer-flower, sire-sour, tire-tower, bough-buy, bough-by, bough-bye, how-high, how-hi, scow-sky, wow-why, brown-brine, down-dine, noun-nine, town-tine, townie-tiny

/aɪ/-/eɪ/: ace-ice, dace-dice, mace-mice, race-rice, space-spice, bake-bike, hake-hike, lake-like, make-mike, braid-bride, glade-glide, wade-wide, laid-ried, raid-ride, brain-brine, feign-fine, lane-line, mane-mine, pain-pine, sane-sign, sane-sine, spain-spine, vain-vine, vein-vine, train-trine, pane-pine, maine-mine, file-fail, isle-ail, isle-ale, mile-mail, mile-male, Nile-nail, pile-pail, pile-pale, style-stale, tile-tail, tile-tale, vile-vale, vile-veil, later-lighter, raise-rise, gaze-guys, lays-lies, pays-pies, phrase-fries, rays-rise, raze-rise, ways-wise, tape-type, grape-gripe, bay-buy, bay-by, bay-bye, day-die, day-dye, hay-high, hay-hi, hey-high, hey-hi, lay-lie, lay-lye, may-my, pay-pie, weigh-why, pray-pry, slay-sly, tray-try, way-why, sleigh-sly, bait-bite, bait-byte, freight-fright, hate-height, kate-kite, late-light, slate-sleight, slate-slight, wait-white, weight-white, vapor-viper, layer-liar, lathe-lithe, climb-claim, lime-lame, time-tame, sign-seine, sine-seine, wife-waif, strife-straife, riser-razor

/aɪ/-/i:/ field-filed, wield-wild, file-feel, isle-eel, mile-meal, Nile-kneel, pile-peal, pile-peel, style-steel, style-steal, vile-veal, bike-beak, like-leak, like-leek, spike-speak, bee-buy, bee-by, bee-bye, we-why, me-my, lee-lie, lee-lye, he-high, he-hi, pea-pie, ski-sky, she-shy, tea-tie, tee-tie, tree-try, flea-fly, free-fry, meter-miter, reader-rider, reap-ripe, sweep-swipe, weep-wipe, heap-hype, wheat-white, seat-cite, seat-sight, seat-site, neat-knight, neat-night, meat-might, beet-bite, beet-byte, heat-height, feet-fight, fleet-flight, bead-bide, breed-bride, deed-dyed, reed-ride, seed-side, weed-wide, cream-crime, team-time, theme-thyme, dean-dine, lean-line, mean-mine, mien-mine, scene-sign, scene-sine, seen-sign, seen-sine, teen-tine, sheen-shine, fief-fife, leaf-life, reef-rife, teethe-tithe, freeze-fries, sees-size, tease-ties, trees-tries, teeny-tiny

/aɪ/-/oʊ/: boat-bite, boat-byte, note-knight, note-night, float-flight, coat-kite, quote-quite, wrote-right, wrote-write, file-foal, mile-mole, Nile-kill, pile-pole, pile-poll, style-stole, spike-spoke, strike-stroke, loan-line, phone-fine, tone-tine, rhyming-roaming, crime-chrome, dime-dome, lime-loam, rhyme-roam, time-tome, beau-buy, beau-by, beau-bye, hoe-high, hoe-hi, doe-die, doe-dye, dough-die, dough-dye, flow-fly, floe-fly, go-guy, low-lie, low-lye, mow-my, owe-i, owe-eye, show-shy, slow-sly, toe-tie, tow-tie, crow-cry, bide-bowed, lied-load, ride-road, ride-rod, tide-toad, tide-toed, fold-filed, mold-mild, liar-lower, bow-buy, bow-by, bow-bye, grope-gripe, hope-hype, rope-ripe, tope-type, fries-froze, guys-goes, lies-lows, pies-pose, prize-pros, prize-prose, rise-rose, ties-toes, arise-arose, loathe-lithe, drover-driver, writer-rotor, miter-motor, life-loaf, tony-tiny

/aɪ/-/u:/ file-fool, pile-pool, style-stool, tile-tool, moose-mice, dune-dine, loon-line, moon-mine, noon-nine, spoon-spine, soon-sign, soon-sine, tune-tine, swoon-swine, boo-buy, boo-by, boo-bye, who-high, who-hi, two-tie, true-try, shoe-shy, moo-my, flu-fly, crew-cry, dew-die, dew-dye, drew-dry, boot-bite, boot-byte, suit-cite, suit-sight, suit-site, brute-bright, coot-kite, flute-flight, fruit-fright, hoot-height, loot-light, root-right, root-write, route-right, route-write, toot-tight, doom-dime, room-rhyme, tomb-time, loom-lime, bride-brood,

dyed-dude, glide-glued, pride-prude, ride-rood, ride-rude, cruise-cries, cruse-cries, lose-lies, woof-wife, looter-lighter, tutor-tighter, router-writer, group-gripe, snoop-snipe, swoop-swipe, troop-tripe, troupe-tripe, whoop-wipe, hoop-hype, liner-lunar

/aɪ/-/æ/: bad-bide, had-hide, lad-ried, dad-dyed, glad-glide, sad-side, tad-tide, bike-back, hike-hack, like-lack, fan-fine, man-mine, pan-pine, san-sign, san-sine, tan-tine, van-vine, band-bind, bland-blind, grand-grind, hand-hind, land-lined, hap-hype, snap-snipe, wrap-ripe, trap-tripe, strap-stripe, rap-ripe, tap-type, bat-bite, bat-byte, cat-kite, brat-bright, fat-fight, flat-flight, hat-height, mat-might, rat-right, rat-write, sat-cite, sat-sight, sat-site, climb-clam, crime-cram, dime-dam, dime-damn, lime-lam, lime-lamb, slime-slam, rhyme-ram, time-tam, laugh-life, hacker-hiker, mice-mass, lighter-latter, miter-matter, pallet-pilot, palette-pilot

/aɪ/-/ɑ/: hock-hike, lock-like, cot-kite, hot-height, knot-knight, knot-night, slot-sleight, slot-slight, not-knight, not-night, spot-spite, rot-right, rot-write, tot-tight, non-nine, mime-mom, prime-prom, time-tom, bind-bond, blind-blonde, blind-blond, find-fond, fined-fond, guide-god, pride-prod, side-sod, hop-hype, swap-swipe, wise-was, totter-tighter

/aɪ/-/ɔ/: moss-mice, file-fall, isle-all, mile-mall, smile-small, tile-tall, hawk-hike, bought-bite, bought-byte, caught-kite, lot-light, brought-bright, fought-fight, sought-cite, sought-sight, sought-site, taught-tight, swan-swine, lawn-line, pawn-pine, dawn-dine, fawn-fine, bride-broad, fly-flaw, lie-law, lye-law, pie-paw, thigh-thaw, dry-draw, sly-slaw, top-type, lies-laws, pies-pause, pies-paws

/aɪ/-/ɔɪ/: isle-oil, fire-foyer, tie-toy, buy-boy, by-boy, bye-boy, line-loin, voice-vice, voice-vice

/aɪ/-/ə/: dove-dive, mile-mull, Nile-null, bike-buck, like-luck, mike-muck, strike-struck, crumb-crime, chum-chime, dumb-dime, mum-mime, thumb-thyme, find-fund, fined-fund, bide-bud, dyed-dud, bite-but, bite-butt, byte-but, byte-butt, height-hut, kite-cut, knight-nut, might-mutt, night-nut, right-rut, white-what, write-rut, rough-rife, done-dine, dun-dine, fun-fine, none-nine, nun-nine, one-wine, pun-pine, spun-spine, shun-shine, son-sign, son-sine, sun-sign, sun-sine, ton-tine, won-wine

/aɪ/-/ɪ/: file-fill, isle-ill, mile-mill, pile-pill, style-still, hike-hick, like-lick, bit-bite, bit-byte, fit-fight, hit-height, kit-kite, knit-knight, knit-night, lit-light, mitt-might, quit-quite, sit-cite, sit-sight, sit-site, slit-sleight, slit-slight, spit-spite, to-tie, dime-dim, lime-limb, slime-slim, prime-prim, rhyme-rim, bide-bid, dyed-did, hide-hid, lied-lid, ride-rid, slide-slid, litter-lighter, filled-filed, dine-din, fine-fin, line-lynn, mine-min, pine-pin, shine-shin, sign-sin, spine-spin, sine-sin, tine-tin, twine-twin, wine-win, wine-when, eyes-is, wise-wiz, grip-gripe, hip-hype, rip-ripe, snip-snipe, strip-stripe, tip-type, trip-tripe, riff-rife, dipper-diaper, stripper-striper, mice-miss, dinner-diner, sinner-signer, winner-whiner, cycle-sickle

/aɪ/-/ʊ/: file-full, pile-pull, bike-book, hike-hook, like-look, foot-fight, soot-cite, soot-sight, soot-site, guide-good, hide-hood, wide-would, roof-rife

/aʊ/-/eɪ/: dace-douse, mace-mouse, space-spouse, laid-loud, brain-brown, crane-crown, drain-drown, gain-gown, bay-bough, hay-how, hey-how, weigh-wow, play-plow, way-wow, ate-out, bait-bout, date-doubt, eight-out, gait-gout, gate-gout, skate-scout, ail-owl, ale-owl, fail-foul, fail-fowl, hail-howl, jail-jowl, hale-howl, scale-scowl, brownie-brainy

/aʊ/-/i/: key-cow, bee-bough, we-wow, he-how, knee-now, plea-plow, ski-scow, treat-trout, eat-out, beet-bout, fleet-flout, sheet-shout, each-ouch, peach-pouch, plead-plowed, clean-clown, dean-down, teen-town, townie-teeny, eel-owl, feel-foul, feel-fowl, heal-howl, heel-howl, keel-cowl

/aʊ/-/oo/: boat-bout, goat-gout, oat-out, float-flout, wrote-rout, clone-clown, drone-drown, tone-town, beau-bough, no-now, hoe-how, know-now, bow-bough, coal-cowl, foal-foul, foal-fowl, hole-howl, whole-howl, townie-tony, loud-load, coach-couch, poach-pouch

/aʊ/-/u/: moose-mouse, croon-crown, dune-down, goon-gown, noon-noun, tune-town, boo-bough, who-how, knew-now, coup-cow, chew-chow, new-now, boot-bout, chute-shout, flute-flout, root-rout, route-rout, scoot-scout, shoot-shout, crude-crowd, prude-proud, cool-cowl, fool-foul, fool-fowl, school-scowl, pouch-pooch

/aʊ/-/æ/: cad-cowed, lad-loud, plaid-plowed, bound-band, ground-grand, sound-sand, browned-brand, hound-hand, clan-clown, tan-town, bat-bout, at-out, flat-flout, gat-gout, rat-rout, math-mouth, mouse-mass, catch-couch, patch-pouch

/aʊ/-/ɑ/: bound-bond, found-fond, pound-pond, dot-doubt, got-gout, spot-spout, rot-rout, shot-shout, non-noun, brow-bra, plod-plowed, prod-proud, crouch-crotch

/aʊ/-/ɔ/: moss-mouse, all-owl, call-cowl, fall-foul, fall-fowl, hall-howl, bought-bout, drawn-drown, gone-gown, dawn-down, moth-mouth

/aʊ/-/ɔɪ/: coil-cowl, oil-owl, bough-boy, plow-ploy

/aʊ/-/ə/: found-fund, bout-but, bout-butt, gout-gut, rout-rut, shout-shut, down-done, down-dun, noun-none, noun-nun, town-ton, gown-gun, crouch-crutch, hull-howl, skull-scowl

/aʊ/-/ɪ/: get-gout, bit-bout, skit-scout, spit-spout, kid-cowed, lid-loud, fill-foul, fill-fowl, grill-growl, hill-howl, ill-owl, kill-cowl, skill-scowl, blouse-bliss, mouse-miss, down-din, town-tin, couch-kitsch, pouch-pitch, ouch-itch, myth-mouth, scythe-south

/aʊ/-/ʊ/: could-cowed, full-foul, full-fowl

/e/-/o/: resister-resistor

/eɪ/-/i/: lace-lease, pace-peace, pace-piece, bake-beak, lake-leak, lake-leek, rake-reek, sake-seek, shake-sheik, snake-sneak, wake-weak, wake-week, blade-bleed, braid-breed, fade-feed, grade-greed, wade-weed, raid-reed, spade-speed, bane-bean, grain-green, lane-lean, mane-mean, mane-mien, sane-scene, sane-seen, cane-keen, maine-mean, maine-mien, bee-bay, spree-spray, we-weight, we-way, me-may, lee-lay, he-hay, he-hey, pea-pay, plea-play, see-say, tree-tray, sea-say, sealer-sailor, fever-favor, phrase-freeze, cape-keep, shape-sheep, ate-eat, bait-beet, eight-eat, hate-heat, straight-street, wait-wheat, weight-wheat, baker-beaker, caper-keeper, seem-same, team-tame, scene-seine, seen-seine, beast-based, chief-chafe, ail-eel, ale-eel, stale-steel, stale-steal, dale-deal, fail-feel, hail-heal, hail-heel, hale-heal, hale-heel, mail-meal, male-meal, nail-kneel, pail-peal, pail-peel, pale-peal, pale-peel, rail-reel, sail-seal, sale-seal, vale-veal, wail-wheel, wale-wheel, veil-veal, grave-grieve, slave-sleeve

/eɪ/-/oʊ/: grove-grave, ache-oak, brake-broke, break-broke, cake-coke, sake-soak, steak-stoke, wake-woke, boat-bait, goat-gait, goat-gate, oat-ate, oat-eight, coat-kate, laid-load, made-mode, maid-mode, raid-road, raid-rode, bane-bone, drain-drone, feign-phone, grain-groan, lane-loan, cane-cone, raise-rose, chaise-shows, days-doze, gaze-goes, lays-lows, pays-pose, phrase-froze, rays-rose, raze-rose, cape-cope, tape-tope, grape-grope, bay-beau, bay-bow, day-doe, day-dough, gray-grow, hay-hoe, hey-hoe, they-though, lay-low, may-mow, ray-row, say-sew, slay-slow, stay-stow, sleigh-slow, layer-lower, lathe-loathe, radio-rodeo, bail-bowl, bail-boll, stale-stole, bale-bowl, bale-boll, fail-foal, gale-goal, hail-hole, hail-whole, hale-hole, hale-whole, mail-mole, male-mole, nail-knoll, pail-pole, pail-poll, pale-pole, pale-poll, rail-roll, rail-role, sail-sole, sail-soul, sale-sole, sale-soul, trail-troll, nation-notion, came-comb, aim-ohm, fame-foam, name-gnome, lame-loam, tame-tome, toast-taste, solar-sailor

/eɪ/-/u:/: lace-loose, mace-moose, braid-brood, glade-glued, made-mood, maid-mood, raid-rood, raid-rude, bane-boon, crane-croon, gain-goon, lane-loon, mane-moon, rain-rune, rein-rune, sane-soon, spain-spoon, maine-moon, hater-hooter, skater-scooter, later-looter, blaze-blues, chaise-shoes, lays-lose, maize-moos, maze-moos, cape-coop, cape-coupe, grape-group, drape-droop, bay-boo, clay-clue, day-dew, gray-grew, hay-who, hey-who, may-moo, stay-stew, tray-true, bait-boot, freight-fruit, hate-hoot, kate-coot, late-loot, skate-scoot, soon-seine, bloom-blame, flume-flame, tomb-tame, loom-lame, stale-stool, fail-fool, pail-pool, pale-pool, rail-rule, scale-school, tail-tool, tale-tool, stage-stooge, grave-groove, woof-waif, gravy-groovy, based-boost

/eɪ/-/æ/: base-bass, brace-brass, mace-mass, pace-pass, bake-back, flake-flack, hake-hack, lake-lack, rake-rack, rake-wrack, sake-sack, sake-sac, shake-shack, snake-snack, steak-stack, take-tack, wake-whack, add-aid, lad-laid, grad-grade, glad-glade, mad-made, mad-maid, pad-paid, shad-shade, bane-ban, feign-fan, mane-man, pain-pan, rain-ran, plane-plan, plain-plan, rein-ran, sane-san, vain-van, vein-van, pane-pan, maine-man, hater-hatter, skater-scatter, later-latter, cape-cap, tape-tap, ate-at, bait-bat, eight-at, gait-gat, gate-gat, hate-hat, kate-cat, baker-backer, san-seine, chaff-chafe, came-cam, aim-am, claim-clam, same-sam, lame-lam, lame-lamb, tame-tam, passed-paste, past-paste

/eɪ/-/ɑ/: cake-cock, flake-flock, hake-hock, lake-lock, rake-rock, sake-sock, shake-shock, steak-stock, wake-wok, aid-odd, paid-pod, bane-bon, cane-con, sol-sail, sol-sale, doll-dale, hater-hotter, cater-cotter, ways-was, font-faint, pont-paint, cape-cop, shape-shop, cot-kate, dot-date, got-gait, got-gate, hot-hate, slot-slate, shaker-shocker, draper-dropper, calm-came, com-came, tom-tame, scholar-scalar, daily-dolly

/eɪ/-/ɔ/: base-boss, lace-loss, mace-moss, hake-hawk, steak-stalk, take-talk, wake-walk, braid-broad, drain-drawn, feign-fawn, gain-gone, lane-lawn, pain-pawn, pane-pawn, all-ail, all-ale, ball-bail, ball-bale, bawl-bail, bawl-bale, fall-fail, hall-hail, hall-hale, mall-mail, mall-male, tall-tail, tall-tale, wall-wail, wall-wale, waiter-water, lays-laws, pays-pause, pays-paws, tape-top, drape-drop, clay-claw, lay-law, pay-paw, say-saw, slay-slaw, stray-straw, sleigh-slaw, bought-bait, caught-kate, lot-late, taker-talker, trawler-trailer, mauler-mailer, tossed-taste

/eɪ/-/ɔɪ/: chase-choice, grain-groin, lane-loin, cane-coin, boil-bail, boil-bale, broil-braille, oil-ail, oil-ale, soil-sail, soil-sale, bay-boy, play-ploy

/eɪ/-/ə/: shove-shave, base-bus, base-buss, case-cuss, face-fuss, pace-pus, place-plus, bake-buck, lake-luck, steak-stuck, take-tuck, make-muck, blade-blood, made-mud, maid-mud, spade-spud, bane-bun, feign-fun, gain-gun, pain-pun, rain-run, rein-run, sane-son, sane-sun, spain-spun, cane-can, pane-pun, cater-cutter, gaiter-gutter, ape-up, cape-cup, bait-but, bait-butt, gait-gut, gate-gut, hate-hut, kate-cut, straight-strut, wait-what, weight-what, come-came, from-frame, gum-game, sum-same, some-same, dale-dull, hail-hull, hale-hull, mail-mull, male-mull, nail-null, scale-skull, stable-stubble, son-seine, sun-seine, runny-rainy, bust-based, theater-theatre

/eɪ/-/ɪ/: case-kiss, mace-miss, brake-brick, break-brick, cake-kick, flake-flick, hake-hick, lake-lick, rake-rick, sake-sick, steak-stick, take-tick, wake-wick, grade-grid, laid-lid, raid-rid, bane-bin, chain-chin, feign-fin, grain-grin, lane-lynn, mane-min, pain-pin, sane-sin, spain-spin, cane-kin, pane-pin, maine-min, later-litter, get-gait, get-gate, days-does, ways-wiz, cape-kip, tape-tip, shape-ship, grape-grip, drape-drip, bit-bait, hit-hate, kit-kate, lit-late, skit-skate, slit-slate, caper-kipper, raper-ripper, taper-tipper, bill-bail, bill-bale, dill-dale, fill-fail, gill-gale, hill-hail, hill-hale, ill-ail, ill-ale, sill-sail, sill-sale, pill-pail, pill-pale, mill-mail, mill-male, skill-scale, still-stale, trill-trail, will-wail, will-wale, rage-ridge, sable-sibyl, gave-give, aim-him, lame-limb, miller-mailer, tiller-tailor, billy-bailey, sin-seine, daisy-dizzy

/eɪ/-/ʊ/: pace-puss, bake-book, brake-brook, break-brook, cake-cook, hake-hook, lake-look, rake-rook, shake-shook, take-took, wade-would, shade-should, bail-bull, bale-bull, fail-full, pail-pull, pale-pull, wail-wool, wale-wool, bully-bailey

/i/-/oo/: grove-grieve, boat-beet, note-neat, oat-eat, float-fleet, field-fold, bee-beau, bee-bow, me-mow, lee-low, glee-glow, he-hoe, knee-no, knee-know, see-sew, she-show, tea-toe, tea-tow, tee-toe, tee-tow, three-throw, flea-flow, flea-floe, sea-sew, peeler-polar, sealer-solar, meter-motor, bone-bean, clone-clean, cone-keen, groan-green, loan-lean, tone-teen, billow-billy, deep-dope, keep-cope, leap-lope, reap-rope, sleep-slope, heap-hope, seep-soap, peep-pope, barrow-berry, barrow-bury, marrow-marry, breach-broach, breech-broach, reach-roach, peach-poach, bead-bowed, need-node, reed-road, reed-rode, bleak-bloke, cheek-choke, clique-cloak, creak-croak, creek-croak, peak-poke, peek-poke, pique-poke, seek-soak, speak-spoke, weak-woke, week-woke, cream-chrome, team-tome, leaf-loaf, jelly-jello, coal-keel, foal-feel, roll-reel, hole-heal, hole-heel, knoll-kneel, mole-meal, pole-peal, pole-peel, poll-peal, poll-peel, role-reel, sole-seal, soul-seal, stole-steel, stole-steal, whole-heal, whole-heel, cheese-chose, freeze-froze, knees-knows, knees-nose, tease-toes, these-those, hollow-holly, teeny-tony

/i/-/u/: key-coup, bee-boo, zee-zoo, me-moo, glee-glue, he-who, knee-knew, knee-new, she-shoe, tea-two, tee-two, three-through, three-threw, tree-true, flea-flu, snoozing-sneezing, goose-geese, loose-lease, keep-coop, keep-coupe, leap-loop, leap-loupe, sleep-sloop, steep-stoop, steep-stoup, sweep-swoop, weep-whoop, heap-hoop, seep-soup, peep-poop, seat-suit, beet-boot, heat-hoot, fleet-flute, sheet-chute, sheet-shoot, balloon-baleen, boon-bean, dune-dean, june-jean, june-gene, loon-lean, moon-mean, moon-mien, soon-scene, soon-seen, tune-teen, boom-beam, tomb-team, peach-pooch, breed-brood, deed-dude, need-nude, reed-rood, reed-rude, beast-boost, teeth-tooth, breeze-bruise, bees-booze, cheese-choose, knees-news, sneeze-snooze, cool-keel, fool-feel, pool-peal, pool-peel, rule-reel, spool-spiel, stool-steel, stool-steal, grieve-groove, seethe-soothe

/i/-/æ/: bad-bead, grad-greed, dad-deed, plaid-plead, sad-seed, cheater-chatter, meter-matter, leader-ladder, creep-crap, keep-cap, leap-lap, reap-wrap, reap-rap, heap-hap, seat-sat, meat-mat, eat-at, cheat-chat, beet-bat, heat-hat, feet-fat, fleet-flat, back-beak, black-bleak, clack-clique, crack-creak, crack-creek, shack-sheik, lack-leak, lack-leek, pack-peak, pack-peek, pack-pique, rack-reek, sack-seek, sac-seek, slack-sleek, snack-sneak, whack-weak, whack-week, wrack-reek, geese-gas, grease-grass, greece-grass, peace-pass, piece-pass, ban-bean, clan-clean, man-mean, man-mien, san-scene, san-seen, tan-teen, wrath-wreath, beach-batch, beech-batch, leach-latch, leech-latch, peach-patch, beam-bam, cream-cram, scheme-scam, seem-sam, team-tam, feast-fast, least-last, beetle-battle, chief-chaff, leaf-laugh, backer-beaker

/i/-/ɑ/: floss-fleece, block-bleak, crock-creak, crock-creek, frock-freak, shock-sheik, lock-leak, lock-leek, rock-reek, sock-seek, wok-weak, wok-week, sol-seal, doll-deal, healer-holler, beep-bop, cheap-chop, creep-crop, keep-cop, sheep-shop, sleep-slop, steep-stop, sweep-swap, heap-hop, seep-sop, peep-pop, hot-heat, knot-neat, not-neat, shot-sheet, bar-bier, bon-bean, con-keen, beach-botch, beech-botch, need-nod, plead-plod, seed-sod, beam-balm, team-tom, beetle-bottle

/i/-/ɔ/: cross-crease, loss-lease, sauce-cease, chalk-cheek, squawk-squeak, walk-weak, walk-week, all-eel, call-keel, fall-feel, hall-heal, hall-heel, mall-meal, wall-wheel, lee-law, pea-paw, see-saw, flea-flaw, sea-saw, dealer-dollar, healer-hauler, wore-weir, war-weir, bought-beet, fought-feet, sought-seat, lawn-lean, dawn-dean, breed-broad, freed-fraud, beam-bomb, least-lost, fried-fraud, keys-cause

/i/-/ɔɪ/: bee-boy, plea-ploy, tea-toy, tee-toy, coil-keel, oil-eel, soil-seal, green-groin, jean-join, keen-coin, lean-loin, gene-join

/i/-/ə/: love-leave, of-eave, of-eve, dealer-duller, keep-cup, seep-sup, peep-pup, wheat-what, neat-nut, meat-mutt, beet-but, beet-butt, heat-hut, sheet-shut, street-strut, peace-pus, piece-pus, can-keen, drum-dream, bum-beam, crumb-cream, sum-seem, scum-scheme, some-seem, thumb-theme, teach-touch, bead-bud, bleed-blood, deed-dud, speed-spud, beak-buck, cheek-chuck, clique-cluck, leak-luck, leek-luck, peak-puck, peek-puck, pique-puck, bean-bun, dean-done, dean-dun, scene-son, scene-sun, seen-son, seen-sun, teen-ton, sheen-shun, beast-bust, least-lust, reef-rough, bees-buzz, fees-fuzz, mama-mommy, momma-mommy, hull-heal, hull-heel, dull-deal, null-kneel, mull-meal, hear-her, here-her, weir-were, coli-cola

/i/-/ɪ/: field-filled, tea-to, tee-to, peeler-pillar, leaver-liver, bit-beet, fit-feet, hit-heat, knit-neat, mitt-meat, sit-seat, cheap-chip, deep-dip, keep-kip, leap-lip, reap-rip, sheep-ship, sleep-slip, bleep-blip, heap-hip, seep-sip, peep-pip, beer-bier, wick-weak, wick-week, click-clique, crick-creak, crick-creek, lick-leak, lick-leek, pick-peak, pick-peek, pick-pique, rick-reek, sick-seek, slick-sleek, obese-abyss, each-itch, reach-rich, peach-pitch, bead-bid, deed-did, greed-grid, reed-rid, scheme-skim, bean-bin, dean-din, green-grin, jean-gin, keen-kin, lean-lynn, mean-min, mien-min, scene-sin, seen-sin, teen-tin, gene-gin, sheen-shin, feast-fist, least-list, beef-biff, reef-riff, dill-deal, fill-feel, hill-heal, hill-heel, ill-eel, spill-spiel, sill-seal, pill-peal, pill-peel, kill-keel, mill-meal, still-steel, still-steal, will-wheel, bees-biz, fees-fizz, kipper-keeper, slipper-sleeper, leave-live

/i/-/ʊ/: seat-soot, feet-foot, peace-puss, piece-puss, weed-would, beak-book, creak-crook, creek-crook, leak-look, leek-look, reek-rook, sheik-shook, reef-roof, full-feel, pull-peal, pull-peel, wool-wheel

/oo/-/u/: grove-groove, boat-boot, float-flute, coat-coot, wrote-root, wrote-route, bone-boon, loan-loon, prone-prune, tone-tune, boo-beau, boo-bow, who-hoe, two-toe, two-tow, through-throw, threw-throw, shoe-show, moo-mow, knew-no, knew-know, grew-grow, glue-glow, flu-flow, flu-floe, crew-crow, blue-blow, stew-stow, dew-doe, dew-dough, new-no, new-know, robe-rube, doom-dome, room-roam, tomb-tome, whom-home, loom-loam, booth-both, coal-cool, foal-fool, roll-rule, pole-pool, poll-pool, role-rule, stole-stool, choose-chose, lose-lows, news-knows, news-nose, shoes-shows, whose-hose, cope-coop, cope-coupe, grope-group, hope-hoop, lope-loop, lope-loupe, pope-poop, scope-scoop, slope-sloop, soap-soup, mood-mode, nude-node, rood-road, rood-rode, rude-road, rude-rode, poach-pooch, router-rotor, ruler-roller, roast-roost, roaster-rooster

/oo/-/æ/: bad-bowed, lad-load, mad-mode, tad-toad, tad-toed, boat-bat, goat-gat, oat-at, float-flat, coat-cat, wrote-rat, bone-ban, clone-clan, phone-fan, tone-tan, yack-yolk, yack-yoke, yak-yolk, yak-yoke, black-bloke, clack-cloak, crack-croak, jack-joke, pack-poke, sack-soak, sac-soak, stack-stoke, whack-woke, cap-cope, hap-hope, lap-lope, nap-nope, map-mope, wrap-rope, rap-rope, tap-tope, bath-both, lobe-lab, laugh-loaf, catch-coach, patch-poach, am-ohm, cam-comb, cram-chrome, dam-dome, damn-dome, ham-home, lam-loam, ram-roam, tam-tome, lamb-loam, mast-most, matter-motor

/oo/-/ɑ/: goat-got, note-knot, note-not, coat-cot, wrote-rot, block-bloke, crock-croak, smock-smoke, sock-soak, stock-stoke, wok-woke, cock-coke, sol-sole, sol-soul, bone-bon, cone-con, globe-glob, lobe-lob, robe-rob, nod-node, cop-cope, pop-pope, hop-hope, mop-mope, slop-slope, sop-soap, calm-comb, com-comb, tom-tome, comma-coma, coli-collie, holy-holly

/oo/-/ɔ/: boat-bought, coat-caught, chalk-choke, stalk-stoke, walk-woke, ball-bowl, ball-boll, bawl-bowl, bawl-boll, call-coal, fall-foal, hall-hole, hall-whole, mall-mole, drone-drawn, loan-lawn, phone-fawn, prone-prawn, malt-molt, vault-volt, bald-bold, called-cold, scald-scold, flow-flaw, floe-flaw, joe-jaw, low-law, slow-slaw, sew-saw, top-tope, lows-laws, pose-pause, pose-paws, tossed-toast

/oo/-/ɔɪ/: cone-coin, groan-groin, loan-loin, boil-bowl, boil-boll, coil-coal, soil-sole, soil-soul, beau-boy, joe-joy, toe-toy, tow-toy, bow-boy

/oo/-/ə/: cult-colt, boat-but, boat-butt, rowboat-robot, goat-gut, note-nut, coat-cut, wrote-rut, bone-bun, cone-can, phone-fun, stone-stun, tone-ton, crumb-chrome, come-comb, dumb-dome, hum-home, robe-rub, bud-bowed, mud-mode, hole-hull, knoll-null, mole-mull, whole-hull, bunny-boney, funny-phony, cup-cope, pup-pope, sup-soap, chuck-choke, cluck-cloak, puck-poke, struck-stroke, stuck-stoke, yuck-yolk, yuck-yoke, gust-ghost, must-most, rust-roast

/oo/-/ɪ/: boat-bit, goat-get, note-knit, coat-kit, quote-quit, bone-bin, cone-kin, groan-grin, loan-lynn, phone-fin, tone-tin, pillow-polo, brick-broke, wick-woke, click-cloak, crick-croak, kick-coke, pick-poke, sick-soak, stick-stoke, to-toe, to-tow, globe-glib, robe-rib, bid-bowed, lid-load, rid-road, rid-rode, bill-bowl, bill-boll, fill-foal, gill-goal, hill-hole, hill-whole, sill-sole, sill-soul, pill-pole, pill-poll, kill-coal, mill-mole, still-stole, trill-troll, cold-killed, fold-filled, bold-build, bold-billed, bolt-built, colt-kilt, jolt-jilt, molt-milt, does-doze, cope-kip, dope-dip, grope-grip, hope-hip, lope-lip, nope-nip, pope-pip, rope-rip, scope-skip, slope-slip, soap-sip, tope-tip, pillar-polar, hose-his, rover-river, coach-kitsch, poach-pitch, roach-rich, dome-dim, home-hymn, loam-limb, ohm-him, roam-rim, mission-motion, mist-most, wrist-roast

/oo/-/o/: brook-broke, cook-coke, crook-croak, bowl-bull, foal-full, boll-bull, pole-pull, poll-pull

/u/-/æ/: dad-dude, glad-glued, mad-mood, goose-gas, moose-mass, boon-ban, moon-man, soon-san, rune-ran, tune-tan, cap-coop, cap-coupe, hap-hoop, lap-loop, lap-loupe, snap-snoop, trap-troop, trap-troupe, bat-boot, cat-coot, brat-brute, flat-flute, hat-hoot, rat-root, rat-route, sat-suit, bath-booth, boom-bam, doom-dam, doom-damn, groom-gram, room-ram, tomb-tam, whom-ham, loom-lam, loom-lamb, goof-gaff, goof-gaffe, hoof-half, tab-tube, hatch-hooch, patch-pooch, hooter-hatter, looter-latter, scooter-scatter

/u/-/ɑ/: wound-wand, cot-coot, hot-hoot, rot-root, rot-route, shot-chute, shot-shoot, tot-toot, boon-bon, noon-non, boom-balm, tomb-tom, bob-boob, rob-rube, nod-nude, prod-prude, stop-stoop, stop-stoup, cop-coop, cop-coupe, pop-poop, hop-hoop, slop-sloop, sop-soup, swap-swoop, collar-cooler, hooter-hotter, tutor-totter

/u/-/ɔ/: loss-loose, moss-moose, call-cool, fall-fool, tall-tool, bought-boot, caught-coot, lot-loot, brought-brute, sought-suit, taught-toot, dune-dawn, goon-gone, loon-lawn, swoon-swan, prune-prawn, flu-flaw, clue-claw, drew-draw, boom-bomb, broad-brood, lose-laws, drop-droop, caller-cooler

/u/-/ɔɪ/: coil-cool, juice-joyce, june-join, loon-loin, boo-boy, two-toy

/u/-/ə/: boon-bun, dune-done, dune-dun, goon-gun, noon-none, noon-nun, spoon-spun, soon-son, soon-sun, rune-run, tune-ton, bum-boom, dumb-doom, glum-gloom, hum-whom, plum-plume, plumb-plume, boot-but, boot-butt, chute-shut, coot-cut, hoot-hut, root-rut, route-rut, shoot-shut, rub-rube, tub-tube, dud-dude, mud-mood, stud-stewed, booze-buzz, shutter-shooter, cup-coop, cup-coupe, pup-poop, sup-soup, buster-booster, color-cooler, school-skull, bust-boost, rust-roost

/u/-/ɪ/: moose-miss, bit-boot, hit-hoot, kit-coot, lit-loot, sit-suit, skit-scoot, wound-wind, boon-bin, dune-din, june-gin, loon-lynn, moon-min, spoon-spin, soon-sin, tune-tin, two-to, doom-dim, groom-grim, room-rim, whom-hymn, loom-limb, bib-boob, rib-rube, did-dude, rid-rood, rid-rude, drill-drool, fill-fool, spill-spool, pill-pool, kill-cool, skill-school, still-stool, knitter-neuter, litter-looter, booze-biz, whose-his, killer-cooler, slip-sloop, drip-droop, grip-group, hip-hoop, kip-coop, kip-coupe, lip-loop, lip-loupe, pip-poop, sip-soup, skip-scoop, snip-snoop, trip-troop, trip-troupe, collision-collusion, wrist-roost, pitch-pooch

/u/-/ʊ/: soot-suit, stood-stewed, full-fool, pull-pool

/æ/-/ɑ/: add-odd, pad-pod, plaid-plod, sad-sod, block-black, crock-crack, flock-flack, hock-hack, knock-knack, shock-shack, lock-lack, rock-rack, rock-wrack, sock-sack, sock-sac, stock-stack, wok-whack, cot-cat, got-gat, hot-hat, pot-pat, rot-rat, ax-ox, axe-ox, backs-box, blacks-blocks, fax-fox, lax-locks, sax-socks, saxe-socks, stacks-stocks, flag-flog, hag-hog, slag-slog, ban-bon, band-bond, bland-blonde, bland-blond, cap-cop, crap-crop, flap-flop, hap-hop, map-mop, calendar-colander, cob-cab, gob-gab, job-jab, knob-nab, lob-lab, slob-slab, bottle-battle, calm-cam, balm-bam, com-cam, tom-tam, champ-chomp, ramp-romp, stamp-stomp, batch-botch, hallow-hollow, lacquer-locker, lacquer-laughter, hotter-hatter, plotter-platter

/æ/-/ɔ/: boss-bass, gloss-glass, moss-mass, hawk-hack, stalk-stack, talk-tack, walk-whack, ant-aunt, mask-mosque, bought-bat, caught-cat, brought-brat, fought-fat, sought-sat, tax-talks, bag-bog, dag-dog, fag-fog, lag-log, ann-on, fan-fawn, pan-pawn, santa-sauna, tap-top, math-moth, gang-gong, rang-wrong, sang-song, bomb-bam, last-lost, whacker-walker, craft-croft

/æ/-/ə/: bad-bud, dad-dud, mad-mud, scad-scud, hung-hang, rung-rang, banker-bunker, ankle-uncle, crash-crush, flash-flush, rash-rush, mash-mush, mask-musk, back-buck, yack-yuck, yak-yuck, clack-cluck, lack-luck, pack-puck, plaque-pluck, track-truck, stack-stuck, tack-tuck, badge-budge, bag-bug, dag-dug, drag-drug, hag-hug, lag-lug, mag-mug, rag-rug, slag-slug, snag-slug, tag-tug, ban-bun, fan-fun, pan-pun, ran-run, san-son, san-sun, tan-ton, cyan-scion, stand-stunned, bank-bunk, clank-clunk, flank-flunk, hank-hunk, plank-plunk, sank-sunk, drank-drunk, cap-cup, yap-yup, bum-bam, crumb-cram, come-cam, dumb-dam, dumb-damn, sum-sam, hum-ham, scum-scam, some-sam, bat-but, bat-butt, cat-cut, hat-hut, gat-gut, mat-mutt, pat-putt, rat-rut, drub-drab, dub-dab, grub-grab, nub-nab, stub-stab, tub-tab, cub-cab, cuff-calf, branch-brunch, chump-champ, dump-damp, trump-tramp, rump-ramp, stump-stamp, lump-lamp, bus-bass, buss-bass, pus-pass, butter-batter, flutter-flatter, match-much, caps-cups, last-lust, mast-must, tracker-trucker, puddle-paddle

/æ/-/ɪ/: cad-kid, bad-bid, had-hid, lad-lid, grad-grid, dad-did, scad-skid, get-gat, dangle-dingle, rankle-wrinkle, cling-clang, ping-pang, ring-rang, sling-slang, sing-sang, bit-bat, fit-fat, hit-hat, kit-cat, mitt-mat, pit-pat, sit-sat, harrow-hero, dash-dish, fax-fix, max-mix, packs-pix, pax-pix, sax-six, saxe-six, stacks-sticks, tax-ticks, wick-whack, click-clack, crick-crack, flick-flack, hick-hack, lick-lack, nick-knack, pick-pack, rick-rack, rick-wrack, sick-sack, sick-sac, slick-slack, stick-stack, tick-tack, trick-track, bag-big, brag-brig, dag-dig, fag-fig, gag-gig, rag-rig, wag-wig, ban-bin, ann-in, ann-inn, fan-fin, man-min, pan-pin, san-sin, tan-tin, blank-blink, clank-clink, lank-link, rank-rink, sank-sink, sank-sync, thank-think, drank-drink, cap-kip, yap-yip, flap-flip, hap-hip, lap-lip, nap-nip, snap-snip, zap-zip, wrap-rip, trap-trip, strap-strip, clap-clip, rap-rip, tap-tip, basket-biscuit, math-myth, crib-crab, jib-jab, nib-nab, bitter-batter, litter-latter, chimp-champ, crimp-crimp, imp-amp, limp-lamp, staff-stiff, catch-kitsch, patch-pitch, am-him, dam-dim, damn-dim, gram-grim, ham-hymn, jam-gym, lam-limb, ram-rim, scam-skim, slam-slim, tram-trim, jamb-gym, lamb-limb, swam-swim, fast-fist, last-list, mast-mist, prance-prince, draft-drift, draught-drift, raft-rift, mass-miss

/æ/-/ʊ/: cad-could, had-hood, shad-should, back-book, crack-crook, hack-hook, shack-shook, knack-nook, lack-look, rack-rook, tack-took, wrack-rook, foot-fat, put-pat, soot-sat, pass-puss

/ɑ/-/ɔ/: born-barn, horn-harn, court-cart, port-part, fort-fart, farm-form, hock-hawk, stock-stalk, wok-walk, core-car, ore-our, tore-tar, pour-par, four-far, oar-our, score-scar, store-star, parch-porch, park-pork, caught-cot, tot-taught, chord-card, cord-card, hoard-hard, lord-lard, scored-scarred, gourd-guard, tang-tong, balm-bomb, caller-collar, hauler-holler, stocker-stalker, farmer-former

/ɑ/-/ɔɪ/: sol-soil, con-coin

/ɑ/-/ə/: farm-firm, doc-duck, dock-duck, lock-luck, stock-stuck, dirt-dart, hurt-heart, doll-dull, tongue-tang, for-far, dark-dirk, cot-cut, got-gut, hot-hut, knot-nut, not-nut, pot-putt, rot-rut, shot-shut, card-curd, guard-gird, hard-heard, hard-herd, can-con, are-our, car-cur, far-fur, far-fir, star-stir, barn-burn, yarn-yearn, bum-balm, come-calm, come-com, mum-mom, bon-bun, non-none, non-nun, hub-hob, nub-knob, rub-rob, snub-snob, sub-sob, cub-cob, fond-fund, surrey-sorry, slush-slosh, gush-gosh, hug-hog, jug-jog, slug-slog, smug-smog, chump-chomp, rump-romp, stump-stomp, cop-cup, pop-pup, sop-sup, cutter-cotter, utter-otter, nozzle-nuzzle, collar-color, crutch-crotch, curtain-carton, soccer-sucker, potty-putty, puppy-poppy

/ɑ/-/ɪ/: crock-crick, flock-flick, hock-hick, knock-nick, lock-lick, rock-rick, sock-sick, stock-stick, wok-wick, cock-kick, sol-sill, doll-dill, get-got, hit-hot, kit-cot, knit-knot, knit-not, pit-pot, slit-slot, spit-spot, beer-bar,

fear-far, gear-gar, pier-par, steer-star, tear-tar, guard-gear, bon-bin, con-kin, wind-wand, bib-bob, glib-glob, jib-job, nib-knob, rib-rob, squid-squad, jig-jog, chimp-chomp, fox-fix, socks-six, stocks-sticks, chop-chip, cop-kip, pop-pip, flop-flip, hop-hip, shop-ship, slop-slip, sop-sip, prom-prim, killer-collar, our-ear, pity-potty, chipper-chopper, shipper-shopper, rotten-written, wish-wash, cheery-chary, notch-niche, was-wiz

/ɑ/-/ʊ/: crock-crook, hock-hook, knock-nook, shock-shook, lock-look, rock-rook, cock-cook, pot-put, good-god, bush-bosh, push-posh

/ɔ/-/ɔɪ/: all-oil, ball-boil, bawl-boil, call-coil, lawn-loin, joy-jaw

/ɔ/-/ə/: born-burn, torn-turn, boss-bus, boss-buss, short-shirt, chalk-chuck, stalk-stuck, talk-tuck, hall-hull, mall-mull, lung-long, rung-wrong, tongue-tong, haunt-hunt, core-cur, ore-are, for-four, four-fur, four-fir, more-myrrh, oar-are, wore-were, war-were, store-stir, bought-but, bought-butt, caught-cut, bored-bird, chord-curd, cord-curd, hoard-heard, hoard-herd, gourd-gird, bum-bomb, gone-gun, pawn-pun, dawn-done, dawn-dun, fawn-fun, bug-bog, dug-dog, lug-log, caller-color, dollar-duller, lust-lost, musk-mosque, firm-form, worm-warm, coarse-curse, course-curse

/ɔ/-/ɪ/: moss-miss, hawk-hick, stalk-stick, talk-tick, walk-wick, all-ill, ball-bill, bawl-bill, call-kill, fall-fill, hall-hill, mall-mill, wall-will, haunt-hint, ring-wrong, string-strong, thing-thong, sing-song, ore-ear, chore-cheer, door-dear, door-deer, tore-tear, pour-pier, four-fear, roar-rear, oar-ear, store-steer, bit-bought, fit-fought, kit-caught, lit-lot, sit-sought, salt-silt, malt-milt, halt-hilt, bored-beard, ford-feared, gourd-gear, bald-build, bald-billed, called-killed, on-in, on-inn, lawn-lynn, pawn-pin, dawn-din, fawn-fin, big-bog, dig-dog, fig-fog, talks-ticks, drop-drip, top-tip, killer-caller, miller-mauler, off-if, moth-myth, cotton-kitten, lost-list, lift-loft, sift-soft, watch-witch, watch-which, into-onto

/ɔ/-/ʊ/: hawk-hook, talk-took, ball-bull, bawl-bull, fall-full, wall-wool, fought-foot, sought-soot

/ɔɪ/-/ə/: can-coin

/ɔɪ/-/ɪ/: boil-bill, coil-kill, oil-ill, soil-sill, to-toy, gin-join, grin-groin, kin-coin, lynn-loin

/ɔɪ/-/ʊ/: boil-bull

/ə/-/ɪ/: love-live, cult-kilt, get-gut, rung-ring, for-fear, bit-but, bit-butt, hit-hut, kit-cut, knit-nut, mitt-mutt, pit-putt, fear-fur, fear-fir, steer-stir, click-cluck, lick-luck, pick-puck, stick-stuck, tick-tuck, trick-truck, can-kin, are-ear, dumb-dim, hum-hymn, scum-skim, nub-nib, rub-rib, beard-bird, weird-word, geared-gird, bid-bud, did-dud, skid-scud, big-bug, dig-dug, jig-jug, rig-rug, dill-dull, hill-hull, mill-mull, skill-skull, bitter-butter, chimp-chump, limp-lump, pimp-pump, chink-chunk, clink-clunk, drink-drunk, pink-punk, shrink-shrunk, sink-sunk, sync-sunk, blister-bluster, mister-muster, rough-riff, snuff-sniff, blurry-bleary, worry-weary, enable-unable, double-dibble, bun-bin, done-din, dun-din, fun-fin, one-win, one-when, pun-pin, spun-spin, shun-shin, son-sin, sun-sin, ton-tin, won-win, won-when, lunch-lynch, punch-pinch, cuss-kiss, thus-this, cup-kip, pup-pip, sup-sip, yup-yip, button-bitten, mutton-mitten, buzz-biz, fuzz-fizz, killer-color, pity-putty, lust-list, must-mist, rust-wrist, hutch-hitch, muddle-middle, disk-dusk, brisk-brusque, disc-dusk, hunt-hint, skittle-scuttle, jungle-jingle, knuckle-nickel, pallet-palate, palate-palette, muscle-missile

/ə/-/ʊ/: put-putt, stud-stood, rough-roof, book-buck, look-luck, took-tuck, pus-puss

/ɪ/-/ʊ/: fit-foot, pit-put, sit-soot, brick-brook, crick-crook, hick-hook, kick-cook, lick-look, nick-nook, rick-rook, tick-took, hid-hood, kid-could, bill-bull, fill-full, pill-pull, will-wool, roof-riff, billy-bully, willie-wooly, women-woman