

selnolig: List of English test words  
(Package version: 0.260 2013/09/21)

Appearance of “common” ligatures	ff	fi	fl	ffi	ffl	ft	fj	fk	<i>fr</i>
Sample words with these ligatures	off	fit	fly	office	baffle	often	fjord	Kafka	<i>from</i>

Appearance of “discretionary” (“rare”) ligatures	st	ct	sp	as	es	is, th, us	at	et	sk	ll	ij, sz, ta
Sample words with these ligatures	stay	act	spy	was	sees	isthmus	cat	net	ask	ill	rijsttafel

Package options and other parameters:

Extent of suppressing f-ligatures: basic or broadf?    broadf

Value of \righthyphenmin parameter

## Part I: Basic set of f-ligatures suppression rules

- ff to ff  
shelfful shelffuls bookshelfful selffulfilling
- fi to fi  
(None in basic set)
- fl to fl  
beefless briefless hoofless leafless roofless selfless turfless selflessly selflessness  
calflike dwarflike elflike gulflike hooflike leaflike rooflike serflike sheaflike shelflike surflike turflike waiflike wolflike  
halflife shelflife halflives shelflives  
halfline roofline halflines rooflines  
leaflet leaflets leafleted leafleting leafletting leafletted leafleteer  
pdf<sub>l</sub>atex (even better: pdf<sub>l</sub>LaTeX or pdf<sub>l</sub><sup>®</sup>TeX)
- ffi to ffi  
Pfaffian Wolfian Wulfian
- ffl to ffl  
cuffless stuffless cufflessly stufflessness  
scofflaw scofflaws cufflink cufflinks

offline

offload offloads offloading offloaded

rufflike clifflike

- ffi to ffi  
chaffinch chaffinches wolffish wolffishly
- ffl to ffl  
safflower
- ft to ft  
chieftain chieftaincy chieftaincies chieftainship chieftainships  
halftime halftone halftimes halftones  
rooftop rooftops rooftree rooftrees  
wolftrap calfttrap leaftrap offtrack  
fifth fifths fifthly twelfth twelfths
- *fr* to *fr* (italic font shape only)  
*proofread proofreader proofroom offramp taffrail*
- fb, fh, fj, and fk ligatures: suppressed *globally*  
halfback golfball goofball wolfberry halfbeak hoofbeat  
surfbird surfboard surfboarder surfboat  
halfhearted selfheal leafhopper selfhood serfhood  
wolfhound  
offbeat puffball snuffbox  
cliffhanger offhand offhanded offhandedly

cliffjumper

offkey

*but:* Kafka, Sognefjord, Dovrefjell

## Part 2: Further f-ligatures suppressed if “broadf” option is set

- ff to ff  
(No extra cases in broadf set)
- fi to fi  
elfin  
chafing leafing loafing sheafing strafing vouchsafing  
beefing reefing briefing debriefing coifing fifing jack-  
knifing knifing midwifing waifing wifing  
airproofing childproofing fireproofing flameproofing  
mothproofing rustproofing soundproofing water-  
proofing weatherproofing proofing  
goofing hoofing reroofing roofing spoofing whoofing  
woofing  
begulfinf engulfinf ingulfinf gulfinf golfinf rolfinf  
selfinf wolfinf barfinf  
bedwarfinf dwarfinf enserfinf kerfinf scarfinf snarf-  
ing surfing turfinf wharfinf windsurfing  
deafish dwarfish elfish oafish selfish serfish unselfish  
wolfish  
deafishly dwarfishly elfishly oafishly selfishly serfishly  
unselfishly wolfishly  
deafishness dwarfishness elfishness oafishness selfish-  
ness serfishness unselfishness wolfishness  
beefier comfier goofier gulfier leafier surfier turfier  
beefiest comfiest goofiest gulfiest leafiest surfiest turfi-  
est  
beefily goofily goofiness
- fl to fl  
aloofly briefly chiefly deafly liefly
- ffi to ffi  
baffing biffing outbluffing bluffing boffing buffing  
chaffing cheffing chuffing coffing coiffing handcuffing  
uncuffing cuffing daffing doffing encoffing incoffing  
feoffing fluffing gaffing gruffing huffing luffing miff-  
ing muffing offing piaffing puffing quaffing rebuffing  
reffing restaffing restuffing riffing crossruffing over-  
ruffing underruffing ruffing sclaffing scoffing scuffing  
shroffing sluffing snuffing snuffing spiffing overstaff-  
ing understaffing staffing stiffing overstuffing stuffing  
tariffing tiffing waffing whiffing yaffing

draffish giraffish gruffish offish raffish sniffish stand-  
offish stiffish toffish

draffishly giraffishly raffishly

buffier chaffier chuffier cliffier daffier fluffier gruffier  
huffier iffier miffier puffier scruffier sniffier snuffier  
spiffier stuffier

buffiest chaffiest chuffiest cliffiest daffiest fluffiest  
gruffiest huffiest iffiest miffiest puffiest scruffiest sniff-  
iest snuffiest spiffiest stuffiest

daffily fluffily gruffily huffily puffily scruffily sniffily  
snuffily spiffily stuffily

fluffiness huffiness iffiness puffiness scruffiness sniffi-  
ness spiffiness stuffiness

baffies biffies jiffies stuffies taffies toffies waffie waffies

- ffl to ffl  
bluffly gruffly ruffly snuffly stiffly
- ffi to ffi  
(No extra cases in broadf set)
- ffl to ffl  
(No extra cases in broadf set)
- ft to ft  
fifty fiftyish  
fifties fiftieth fiftieths  
fifteen fifteens fifteenth fifteenths

## Part 3: Ligatures suppressed if “hdlig” op- tion is set

- &t to ct  
arctangent coarctation
- st to st  
*First reason:* “th” (from  $\theta$  or  $\vartheta$ ) after “s”:  
asthma isthmus aesthetic  
Esther  
*Second reason:* avoid instances of st spanning a mor-  
pHEME boundary  
painstaker painstaking dogstail crosstalk gastight  
distasteful distemperate distended distort distract  
distraught distribute distributed distribution distrust  
disturb  
*but:* distant distillation district  
mistrust mistake mistaken  
Maastricht

Charlestown crosstown

*And, do not suppress the ſt ligature for the following words, since no morpheme boundaries are involved:*  
castle forecastle, nestle wrestle, bristle bristleail  
distelfink epistle glisten gristle listen mistletoe thistle  
whistle, apostle jostle, bustle hustle rustle

- \$p to sp

*First reason:* “ph” (from  $\phi$  or  $\varphi$ ) after “s”:

asphalt asphodel asphyxiate blaspheme blasphemy  
dysphagia dysphonia dysphoria sphagnum sphinx  
atmosphere bathysphere biosphere blogosphere eco-  
sphere exosphere hemisphere hydrosphere ionosphere  
magnetosphere stratosphere  
spherical sphericity spheroid  
phosphorous phosphates phosphorescent

*Second reason:* don’t cross morpheme boundaries

clothespin clothespress

passport

businesspeople congresspeople craftspeople dispeople  
newspeople salespeople \$pokespeople townspeople  
tradespeople tribespeople

businessperson congressperson craftsperson draftsper-  
son newsperson salesperson \$pokesperson

transpacific transparent transpersonal transpierce  
transplant transplacental transpolar transport trans-  
pose transposon

(but: trans\$picuous trans\$pire trans\$ponder)

(also: res\$pond des\$pondent cores\$pond corres\$pond)

trespass trespassing

cisplatin

disparage disparaged disparagement disparagements  
disparager disparagers disparages disparaging dispar-  
agingly

disparate disparately disparateness disparatenesses

disparities disparity dispart parted departing dis-  
parts

dispassion dispassionate dispassionately dispassionate-  
ness dispassionatenesses dispassions

dispatch dispatched dispatcher dispatchers dispatches  
dispatching

dispel dispelled dispelling dispels

dispend dispended dispending dispends dispensabili-  
ties dispensability dispensable dispensaries dispensary  
dispensation dispensational dispensations dispen-  
satories dispensatory dispense dispensed dispenser  
dispensers dispenses dispensing

dispeople dispeopled dispeoples dis\$peopling

displace displaceable displaced displacement displace-  
ments displaces displacing

displant displanted displanting displants

display displayable displayed displaying displays

displease displeased displeases displeasing displeasure  
displeasures

displode disploded displodes disploding dispoision  
disposions

displume displumed displumes displuming

disport disported disporting disportment disport-  
ments disports

disposabilities disposability disposable disposables  
disposal disposals dispose disposed disposer disposers  
disposes disposing

disposition dispositional dispositions dispositive

dispossess dispossessed dispossesses dispossessing dis-  
possession dispossessions dispossessor dispossessors

disposure disposures

dispraise dispraised dispraiser dispraisers dispraises  
dispraising dispraisingly

disprize disprized disprizes disprizing

disproof disproofs

disproportion disproportional disproportionate dis-  
proportionated disproportionately disproportionates  
disproportionating disproportionation disproportion-  
ations disproportioned disproportioning dispropor-  
tions

disprovable disprove disproved disproven disproves  
disproving

disputable disputably disputant disputants disputa-  
tion disputations disputatious disputatiously disputa-  
tiousness disputatiousnesses dispute disputed disputer  
disputers disputes disputing

*but: e\$presso (ignore word’s etymological origins...)*

indispensabilities indispensability indispensable in-  
dispensableness indispensablenesses indispensables  
indispensably

indispose indisposed indisposes indisposing indisposi-  
tion indispositions

indisputable indisputableness indisputablenesses in-  
disputably

misperception misphrase misplace misplant mislay  
misprize misprint mispronounce

predispose predisposed predisposes predisposing pre-  
disposition predispositions

redisplay redisplayed redisplaying redisplays

redisp~~ose~~ redisp~~osed~~ redisp~~oses~~ redisp~~osing~~ redisp~~osition~~  
redisp~~ositions~~

undisp~~utable~~ undisp~~uted~~

susp~~end~~ susp~~ended~~ susp~~ends~~ susp~~ension~~

*but*: disp~~ersal~~ disp~~ersals~~ disp~~ersant~~ disp~~ersants~~ disp~~erse~~  
disp~~ersed~~ disp~~ersedly~~ disp~~er~~ disp~~ersers~~ disp~~erses~~  
disp~~ersible~~ disp~~ersing~~ disp~~ersion~~ disp~~ersions~~ disp~~ersive~~  
disp~~ersively~~ disp~~ersiveness~~ disp~~ersivenesses~~

disp~~ersoid~~ disp~~ersoids~~

disp~~irit~~ disp~~irited~~ disp~~iritedly~~ disp~~iritedness~~ disp~~irit-~~  
ednesses disp~~iriting~~ disp~~irits~~

disp~~iteous~~

disp~~read~~ disp~~reading~~ disp~~reads~~

monodisp~~erse~~ nondisp~~ersive~~

polydisp~~erse~~ polydisp~~ersities~~ polydisp~~ersity~~

Note: The test words in the remainder of this document are generally set in *italics* because the upright shapes of the text fonts used in this document (Garamond Premier Pro and EB Garamond) do not feature the ligatures *th*, *at*, *et*, *as*, *es*, *is*, *us*, *sk*, *ll*, and *ij*.

- *th* to *th*

*bathouse boathouse cathouse courthouse gue~~st~~house hot-*  
*house lighthouse nuthouse oas~~t~~house outhouse penthouse*  
*pe~~st~~house pilothouse pothouse*

*bolthead cathead fathead flathead gilthead bothead*  
*lightheaded mas~~t~~head meathead pithead pothead print-*  
*head softhead softheaded*

*fainthearted greathearted lighthearted softhearted stout-*  
*hearted sweetheart sweethearts*

*adulthood aunthood knighthood parenthood priesthood*  
*prophethood sainthood servanthood*

*bolthole knothole porthole po~~st~~hole pe~~st~~hole pothole rat-*  
*hole*

*boathook meathook pothook*

*foothold potholder roothold*

*anthill foothill*

*goatherd neatherd*

*outhaul outhear outhit outhomer outhowl outhumor*  
*outhunt outhu~~st~~le*

*shorthair shorthanded shorthorn*

*antiapartheid apartheid dustheap fir~~st~~hand nighthawk*  
*po~~st~~harvest*

*po~~st~~humous po~~st~~humously*

*pothunt warthog*

*watthour kilowatthour*

*Gotthard*

- *at* to *at*

*anathema aromatherapy intrathoracic metathesis ultra-*  
*thin ultrathick*

- *et* to *et*

*ninetieth ninetieths ninety nineteen*

*nametag*

*betake betatter betray betroth*

*bluetooth*

*detach detain detail*

*dete~~ct~~ undete~~ct~~able dete~~ctive~~*

*detent detention dete~~st~~*

*detrac~~t~~ detrain detribalize detriment detritus*

*bris~~l~~etail dovetail horsetail*

*cheetah chetah caretaker*

*foretell fortunetelling*

*detergent deteriorate determent determinant*

*preterm pretext*

*retext teletext*

*bluetick detick*

*betide yuletide*

*betime beforetime lifetime peacetime sometime*

*detrain drivetrain housetrain pretrain retrain*

*firetrap livetrapp mousetrap*

*axletree saddletree shoetree*

*timetable*

*preteen pretend pretence pretense pretentious prete~~st~~ pre-*  
*text pretitling*

*pretreat pretrim pretrial*

*retag retape retake reteach retie retile retime retint retire*  
*retiring retile retrace retrack retra~~ct~~ retrans retrans-*  
*mit retread retreat retrench retrieve retribution retries*  
*retrim retune*

*return unreturnable*

*entirety surety safety*

*entireties sureties safeties (EB Garamond for “es” lig.)*

*archetype archetypal*

*subtlety teletype teletypewriter*

- *as* to *as*

*ultrasound ultrasophisticated ase*

*infrastructure seastrand*

*teaspoon infraspecific intraspecies intraspecific*

- *es* to *es* (EB Garamond)

*loftiest scariest funniest* (lots of words ending in “iest”)  
*estrange estate establish*

but: *trespass*

- *is* to *is*

Lots of words *starting* with “anti...”: *antisag antisatellite antisience antisecrecy antisense antiseptic antishark antiship antishock antiskid antislavery antislip antismog antismoke antismuggling antismut antisocial antisolar antispasmodic antispeculative antistatic antistick antistress antistrike antisubmarine antisubversion antisymmetric antisymphilitics*

Don’t use *is* in words containing *ish*, *ism*, and *iss*:

*abolish accomplish actorish admonish amateurish anguish antitarnish apish astonish babyish bairnish bakishish baldish banish beamish bearish beauish biggish bitterish blackish blandish bleakish blemish blimpish blockish blondish blueish boarish boggish bookish boorish boulderish boyish brackish brainish brandish brassish brattish brinish broadish broguish brownish brutish buccaneerish buckish buffoonish bullish bumpkinish bur-nish caddish*

*angelfish damselfish* [contains “elfish”]

*anglerfish archerfish batfish billfish blackfish blindfish blowfish bluefish boarfish bonefish boxfish buffalofish butterfish candlefish*

*amiss bekiss bliss dismiss diss edelweiss gneiss hiss kiss miss outkiss priss remiss speiss submiss swiss*

*asp aspidish* (better: *aspid*, *aspidish*)

- *sk* to *sk* (EB Garamond)

*greenskeeper groundskeeper*

*triskaidekaphobia rathskeller*

*miskeep miskept miskick misknow*

*Catskills Peekskill*

- *ll* to *ll*

*animallike bowllike eellike jewellike owl-like petallike seallike snail-like soullike taillike tunnellite veillike wool-like*

*bowelless coalless goalless heelless idealless keelless mail-less mealless recoilless skillless skilllessness skilllessnesses soilless soulless soullessly soullessness soullessnesses tailless toolless trailless wheelless*

- *ij* to *ij*

*antijam hijack demijohns hijinks*

*trijet trijets*

*bijection bijective*

*bijou bijouterie*

*gaijin*

*jipijapa marijuana frijoles*

but: *mijnheer, de Bruijn, rijsttafel* (from Dutch)

## Part 4: Cases where one ligature pre-empts the use of a subsequent ligature

Cases of *as*, *es*, *is*, and *us* ligatures pre-empting use of *st* ligature

- *as* pre-empting *st*

*abreast aghaſt alabaſter antipaſto aſtern aſtir aſtoniſh aſtound aſtride aſtringent aſtronomy aſtute avaſt*

*baſtard baſte beaſt blaſt boaſt breakfaſt breaſt*

*caſt caſte coaſt cataſtrophe chaſte coaſt contraſt*

*devaſtate diſaſter draſtic dynaſty*

*eaſt eccleſiaſtic faſt faſten feaſt forecaſt*

*ghaſtly gaſtronomy gymnaſtics haſte lambaſt laſt leaſt*

*maſt maſter megaſtar metaſtable naſty oaſt oaſthouſe*

*paſt paſta paſtel paſtor paſteurize plaſtic roaſt*

*ſcholaſtic ſpaſtic ſteadfaſt ſtochaſtic toaſt upcoaſt waſte yaſt*

- *es* pre-empting *st*

*eſtablish eſtate eſteem eſter eſtrange eſtuary*

*weſt*

- *is* pre-empting *st*

*fiſt giſt griſt heiſt liſt miſt*

*adminiſter ſtaſtistics ſtaſtistically*

plus, *hundreds* of words ending in -iſt: *aſtiviſt agrono-miſt biologiſt etc.*

but: *miſthink miſthrow caliſthenic*

- *us* pre-empting *st*

*buſt cruſt diſguſt duſt exhaust jouſt juſt luſt muſt ouſt ruſt thruſt wanderluſt*

## Cases of *at* and *et* ligatures pre-empting a *th* ligature

- *at* ligature preempting the *th* ligature

*bath math lath lathe path*  
*atheism athlete*  
*beneath bequeath blather breath*  
*catharsis catheter cathode catholic catholicism*  
*death empathy father fathom feather*  
*gather heath heathen loath*  
*marathon oath pathetic pathology*  
*rather rathskeller*  
*scathe sheath slather strath swath*  
*triathlon triathlete weather wrath wreath*

Words for which the *at* ligature need *not* be suppressed in favor of the *th* ligature: *bathhouse boathouse cathouse boathook meathook goatherd neatherd cathead fathead flathead meathead rathole greathearted*

- *et* ligature preempting the *th* ligature

*bethank bethink bethorn bethought bethump*  
*dethrone doublethink firethorn flamethrower forethought freethinker methinks nonetheless nonethical rethink rethread something whitethroat*  
*twentieth thirtieth fortieth fiftieth sixtieth seventieth eightieth ninetieth hundreth*  
*amethyst bellwether brethren ethical ethane ether ethnic ethyl lethal lethargic methadone method plethora seethe teeth teethe tether together urethane*

Words for which *et*-ligature need not be suppressed:  
*Beethoven prophethood sweetheart sweethearts*

## Cases of *as*-, *es*-, *is*-, and *us*-ligatures pre-empting use of *sp*-ligature

*asparagus aspidistra aspect aspire Casper Caspar clasps gasps*  
*grasps hasps Jasper rasps raspberry wasps*

Note: To typeset *asps* with an *sp* ligature, one must input it either as “a\kernøpt sp” or as “a\uselig{sp}ish”. Ditto

for *aspi|sh*.

*megaspores tetraspore*  
*archesporia bespeak bespake bespoke bespatter besprinkle*  
*espy espied espionage counterespionage*  
*despair desperation desperado despise despite*  
*especially esplanade espouse*  
*finespun homespun geländesprung*  
*prespecified*  
*respell respire respiratory respect disrespect doublespeak respray respring tablespoon*  
 but: *clothespin clothespress despot salespeople spokesperson trespass*  
*crisp lisps whisper wisps*  
 but: *disparity dispart mispackage misplace*  
*cusps tricuspid, auspicious suspect suspicious*  
 but: *suspend suspense suspension etc.*

## Cases of an *et* ligature pre-empting a *ta* ligature

Note: It appears to be the case that in all instances for which an *et* ligature should be suppressed in favor of a subsequent *ta* ligature, the *et* ligature spans a morpheme boundary and hence shouldn't be used anyway. Some examples:

*betake betatter bristletail caretaker cheetah chetah detach detail detain dovetail foretaste horsetail nametag pretake pretape pretafte pretax retable retack retag retape retake retaliate retard retarget whitetail wiretap*

Note that the *et*-ligature should not be suppressed *globally* in favor of a subsequent *ta* ligature because of the following groups of words:

- Words ending in -et-ary: *budgetary dietary monetary planetary proprietary secretary*
- Words ending in -et-able : *covetable depletable getable interpretable marketable pocketable vegetable*  
 but: *retable, timetable*
- Words ending in -et-al: *centripetal metal petal skeletal societal varietal vegetal*
- Words containing metal: *metal metallic metallurgy*