As with the ligature scheme, it is the user's responsibility to switch the meanings of control sequences together with the fonts.

There are 32 letters in the Russian alphabet, and only 26 in the English one. For this reason, before the \patterns command can be used in INITEX, it is necessary to extend the \uccode and \lccode tables for the letters ж, й, э, ю, ь, ъ, and я.

I use a short PASCAL program to translate GOSTCII letters into Latin letters and control sequences before it can be fed to $\mathrm{TEX}_{\mathrm{E}}$. The proposed version 3.0 of $\mathrm{T}_{\mathrm{E}} \mathrm{X}$ will accept 8 -bit input, making this preprocessor unnecessary; and its enhanced handling of ligatures and hyphenation may make it unnecessary to enter as many as 10 characters to produce a single Russian letter, when GOSTCII is not used. For Russian \language, these patterns should work with \left and \righthyphenmin=2.

There is a Bitnet mailing list dedicated to the discussion of the Russian $\mathrm{T}_{\mathrm{E}} \mathrm{p}$ project. To subscribe, send the command

SUB RUSTEX-L 〈your name〉
to
Bitnet: LISTSERV@UBVM
To submit an article, mail it to
Bitnet: RUSTEX-LQUBVM
(Note that node UBVM on BITNET is the same as node UBVM.CC. BUFFALO.EDU on Internet.)

## Acknowledgements

I would like to thank Barbara Beeton for the truly incredible amount of help, support, and warm encouragement, all rendered via Internet; Alexander Samarin for the voluminous advice and support, again rendered via Internet; Donald Knuth, both for his interest in this project, and for creating $\mathrm{T}_{\mathrm{E}} \mathrm{X}$ in the first place. Last but not least, I would like to thank Frank Liang for his doctoral research; without him, we would still be breaking перес-тройка.

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## Hyphenation Exception Log

## Barbara Beeton

This is the annual update of the list of words that $\mathrm{T}_{\mathrm{E} X}$ fails to hyphenate properly. The list last appeared in Volume 9, No. 3, starting on page 239. Everything listed there is repeated here. Owing to the length of the list, it has been subdivided into two parts: English words, and names and non-English words that occur in English texts.

This list is specific to the hyphenation patterns that appear in the original hyphen.tex, that is, the patterns for American English. In the future, if such information becomes available, exceptions to other patterns will also be listed. See below, "Hyphenation for languages other than English".

In the list below, the first column gives results from $\mathrm{TEX}_{\mathrm{E}}$ 's \showhyphens\{...\}; entries in the
second column are suitable for inclusion in a \hyphenation\{...\} list.

In most instances, inflected forms are not shown for nouns and verbs; note that all forms must be specified in a \hyphenation\{...\} list if they occur in your document.

Thanks to all who have submitted entries to the list. Since some suggestions demonstrated a lack of familiarity with the rules of the hyphenation algorithm, here is a short reminder of the relevant idiosyncrasies. Hyphens will not be inserted before the second letter, nor after the third-from-last letter of a word; thus no word shorter than five letters will be hyphenated. (For the details, see The $T_{E} X b o o k$, page 454 . For a digression on other views of hyphenation rules, see below under "English hyphenation".) This particular rule is violated in some of the words listed; however, if a word is hyphenated correctly by TEX except for "missing" hyphens at the beginning or end, it has not been included here.

Some other permissible hyphens have been omitted for reasons of style or clarity. While this is at least partly a matter of personal taste, an author should think of the reader when deciding whether or not to permit just one more break-point in some obscure or confusing word. There really are times when a bit of rewriting is preferable.

One other warning: Some words can be more than one part of speech, depending on context, and have different hyphenations; for example, 'analyses' can be either a verb or a plural noun. If such a word appears in this list, hyphens are shown only for the portions of the word that would be hyphenated the same regardless of usage. These words are marked with a '*'; additional hyphenation points, if needed in your document, should be inserted with discretionary hyphens.

The reference used to check these hyphenations is Webster's Third New International Dictionary, Unabridged.

## English hyphenation

It has been pointed out to me that the hyphenation rules of British English are based on the etymology of the words being hyphenated as opposed to the "syllabic" principles used in the U.S. Furthermore, in the U.K., it is considered bad style to hyphenate a word after only two letters.

In order to make $T_{E X}$ defer hyphenation until after three initial letters, some new patterns can
be added, as communicated to me my Donald Knuth:

To suppress hyphenation after two letters, you need new patterns of the form .ab6 for all pairs of letters $a b$ that begin words of English. I think the number of such pairs is well under 200.

Running PATGEN on a British, rather than a U.S., dictionary would probably result in a useful, but smaller, set of patterns, as more ambiguities might be expected in an etymologically-segmented word base. This is just a guess; I would be interested in a report on actual results, if anyone has tried it.

## Hyphenation for languages other than English

Patterns now exist for many languages other than English. Michael Ferguson, the father of Multilingual $\mathrm{T}_{\hat{E} X}$ (also known as MLTEX), has volunteered to collect these hyphenation patterns for TUG, and I have volunteered him to collect exceptions to those patterns as well. If you have any patterns or exceptions to contribute, please send them to
mike@inrs-telecom.uquebec.ca
via the Bitnet.
At the top of pattern files, please include full documentation, including the name of the author and an address at which the author or other knowledgeable contact can be reached. For exceptions, please specify the patterns on which they fail, and for each word the "bad" hyphenation and the correct hyphenation; a transcript of a TEX session with \showhyphens is also useful.

I will request a report on the collection for the next issue, and exceptions will be published annually along with the (American) English list.

## The List - English words

| academy (ies) | acad-e-my(ies) |
| :--- | :--- |
| addable | add-a-ble |
| ad-di-ble | add-i-ble |
| adrenaline | adren-a-line |
| af-terthought | af-ter-thought |
| agronomist | agron-o-mist |
| am-phetamine | am-phet-a-mine |
| anal-yse | an-a-lyse |
| anal-y-ses | analy-ses* |
| anomaly(ies) | anom-aly(ies) |
| an-tideriva-tive | an-ti-deriv-a-tive |
| anti-nomy(ies) | an-tin-o-my(ies) |
| antin-u-clear | an-ti-nu-clear |
| antin-u-cleon | an-ti-nu-cle-on |
| an-tirev-o-lu-tion-ary | an-ti-rev-o-lu-tion-ary |


apoth-e-o-ses
apoth-e-o-sis
ap-pen-dix
arch-i-pel-ago
ar-che-typ-al
ar-che-typ-i-cal
as-sign-a-ble
as-sign-or
as-sist-ant-ship asymp-to-matic
as-ymp-tot-ic
asyn-chro-nous
ath-er-o-scle-ro-sis
at-mos-phere
at-trib-uted
at-trib-ut-able
av-oir-du-pois
awok-en
band-leader
bank-rupt(-cy)
bar-onies
|base-line-skip
ba-thym-e-try
bathy-scaphe
bean-ies
be-hav-iour
bevies
bib-li-o-gra-phi-sche
bi-dif-fer-en-tial
bill-able
bio-math-e-mat-ics
bio-med-i-cine
bio-rhythms
bland-er
bland-est
blind-er
blondes
blue-print
bor-no-log-i-cal
bot-u-lism
brusquer
busier
busiest
bussing
butted
buzz-word
ca-caph-o-ny(ies)
cam-era-men
cart-wheel
ca-tarrhs
cat-a-stroph-ic
cat-a-stroph-i-cally
cau-li-flow-er
chap-ar-ral
char-treuse
cho-les-teric
cig-a-rette
cinque-foil
co-gnac
co-gnacs
comp-trol-ler
con-gress
crank-shaft
croc-o-dile

| crosshatch (ed) | cross-hatch(ed) |
| :---: | :---: |
| dachshund | dachs-hund |
| database | data-base |
| dat-a-p-ath | data-path |
| declarable | de-clar-able |
| defini-tive | de-fin-i-tive |
| delectable | de-lec-ta-ble |
| democratism | de-moc-ra-tism |
| de-mos | demos |
| deriva-tive | de-riv-a-tive |
| diffract | dif-fract |
| di-rer | direr |
| di-re-ness | dire-ness |
| dis-traugh-tly | dis-traught-ly |
| dis-tribute | dis-trib-ute |
| dol-lish | doll-ish |
| drif-tage | drift-age |
| driver(s) | dri-ver(s) |
| dromedary (ies) | drom-e-dary(ies) |
| duopolist | du-op-o-list |
| duopoly | du-op-oly |
| eco-nomics | eco-nom-ics |
| economist | econ-o-mist |
| elec-trome-chan-i-cal | electro-mechan-i-cal |
| elec-tromechanoa-cous-tic | electro-mechano-acoustic |
| eli-tist | elit-ist |
| en-trepreneur(ial) | en-tre-pre-neur(-ial) |
| epinephrine | ep-i-neph-rine |
| equiv-ari-ant | equi-vari-ant |
| ethy-lene | eth-yl-ene |
| ev-ersible | ever-si-ble |
| ev-ert (s,ed,ing) | evert(s,-ed,-ing) |
| exquisite | ex-quis-ite |
| ex-traor-di-nary | ex-tra-or-di-nary |
| fermions | fermi-ons |
| flag-el-lum (la) | fla-gel-lum(-la) |
| flammables | flam-ma-bles |
| fledgling | fledg-ling |
| flowchart | flow-chart |
| formidable ( y ) | for-mi-da-ble(y) |
| forsythia | for-syth-ia |
| forthright | forth-right |
| freeloader | free-loader |
| friendlier | friend-lier |
| frivolous | friv-o-lous |
| ga-some-ter | gas-om-e-ter |
| geodesic | ge-o-des-ic |
| geode-tic | ge-o-det-ic |
| ge-o-met-ric | geo-met-ric |
| geotropism | ge-ot-ro-pism |
| gnomon | gno-mon |
| grievance | griev-ance |
| grievous (ly) | griev-ous(-ly) |
| hairstyle | hair-style |
| hairstylist | hair-styl-ist |
| harbinger | har-bin-ger |
| harlequin | har-le-quin |
| hatcheries | hatch-eries |
| hemoglobin | he-mo-glo-bin |
| hemophilia | he-mo-phil-ia |
| hep-atic | he-pat-ic |
| hermaphrodite(ic) | her-maph-ro-dite(-ic) |
| heroes | he-roes |
| hex-adec-i-mal | hexa-dec-i-mal |

holon-omy
ho-mo-th-etic
horseradish
hy-potha-la-mus
ide-als
ideographs
id-i-o-syn-crasy
ig-niter
ig-n-i-tor
ig-nores-paces
impedances
in-finitely
in-finites-i-mal
in-fras-truc-ture
in-ter-dis-ci-plinary
inu-tile
inu-til-ity
ir-re-vo-ca-ble
itinerary(ies)
jeremi-ads
keystroke
kil-ning
la-ciest
lamentable
land-sca-per
larceny(ist)
lightweight
limousines
linebacker
lines-pac-ing
lithographed
lithographs
lobotomy(ize)
lo-ges
macroe-co-nomics
malapropism
manuscript
marginal
mat-tes
med-i-caid
medi-o-crities
me-galith
metabolic
metabolism
met-a-lan-guage
metropo-lis(es)
metropoli-tan
mi-croe-co-nomics
mi-crofiche
mil-lage
milliliter
mimeographed
mimeographs
mimi-cries
mi-nis
min-uter(est)
mis-chievously
mis-ers
mis-ogany
mod-elling
molecule
monar-chs
mon-eylen-der
monochrome
ho-lo-no-my ho-mo-thetic
horse-rad-ish
hy-po-thal-a-mus
ideals
ideo-graphs
idio-syn-crasy
ig-nit-er
ig-ni-tor
\ignore-spaces
im-ped-ances
in-fin-ite-ly
in-fin-i-tes-i-mal
in-fra-struc-ture
in-ter-dis-ci-pli-nary
in-utile
in-util-i-ty
ir-rev-o-ca-ble
itin-er-ary(ies)
je-re-mi-ads
key-stroke
kiln-ing
lac-i-est
lam-en-ta-ble
land-scap-er
lar-ce-ny(-ist)
light-weight
lim-ou-sines
line-backer
\line-spacing
lith-o-graphed
lith-o-graphs
lo-bot-omy(-ize)
loges
macro-eco-nomics
mal-a-prop-ism
man-u-script
mar-gin-al
mattes
med-ic-aid
medi-oc-ri-ties
mega-lith
meta-bol-ic
me-tab-o-lism
meta-lan-guage
me-trop-o-lis(es)
met-ro-pol-i-tan
micro-eco-nomics
mi-cro-fiche
mill-age
mil-li-liter mimeo-graphed
mimeo-graphs
mim-ic-ries
min-is
mi-nut-er(-est)
mis-chie-vous-ly
mi-sers
mi-sog-a-my
mod-el-ling
mol-e-cule
mon-archs
money-len-der
mono-chrome

| mo-noen-er-getic | mono-en-er-getic |
| :---: | :---: |
| monopole | mono-pole |
| monopoly | mo-nop-oly |
| monos-pline | mono-spline |
| monos-trofic | mono-strofic |
| mono-tonies | mo-not-o-nies |
| monotonous | mo-not-o-nous |
| mo-ro-nism | mo-ron-ism |
| mosquito | mos-qui-to |
| mu-d-room | mud-room |
| mul-ti-faceted | mul-ti-fac-eted |
| mul-ti-pli-ca-ble | mul-ti-plic-able |
| mul-tiuser | multi-user (better with explicit hyphen) |
| ne-ofields | neo-fields |
| none-mer-gency | non-emer-gency |
| nonequiv-ari-ance | non-equi-vari-ance |
| noneu-clidean | non-euclid-ean |
| non-i-so-mor-phic | non-iso-mor-phic |
| nonpseu-do-com-pact | non-pseudo-com-pact |
| non-s-mooth | non-smooth |
| nore-pinephrine | nor-ep-i-neph-rine |
| nutcracker | nut-crack-er |
| oer-st-eds | oer-steds |
| oligopolist | oli-gop-o-list |
| oligopoly(ies) | oli-gop-oly(ies) |
| orangutan | orang-utan |
| or-thodon-tist | or-tho-don-tist |
| or-thok-er-a-tol-ogy | or-tho-ker-a-tol-ogy |
| or-thoni-tro-toluene | ortho-nitro-toluene (or-tho-ni-tro-tol-u-ene) |
| ox-i-dic | ox-id-ic |
| painlessly | pain-less-ly |
| pal-mate | palmate |
| paradigm | par-a-digm |
| parabolic | par-a-bol-ic |
| paraboloid | pa-rab-o-loid |
| parachute | para-chute |
| paradimethyl-ben-zene | para-di-methyl-benzene (para-di-meth-yl-ben-zene) |
| paraflu-o-ro-toluene | para-fluoro-toluene (para-flu-o-ro-tol-u-ene) |
| para-g-ra-pher | para-graph-er |
| par-ale-gal | para-le-gal |
| para-m-ag-netism | para-mag-net-ism |
| paramedic | para-medic |
| param-ethy-lanisole | para-methyl-anisole (para-meth-yl-an-is-ole) |
| parametrize | pa-ram-e-trize |
| paramil-i-tary | para-mil-i-tary |
| paramount | para-mount |
| pathogenic | path-o-gen-ic |
| pee-vish(ness) | peev-ish(-ness) |
| pen-tagon | pen-ta-gon |
| petroleum | pe-tro-le-um |
| phe-nomenon | phe-nom-e-non |
| philatelist | phi-lat-e-list |
| phos-pho-ric | phos-phor-ic |
| pi-cador | pic-a-dor |
| pi-ran-has | pi-ra-nhas |
| pla-ca-ble | placa-ble |
| plea-sance | pleas-ance |
| poltergeist | pol-ter-geist |
| polyene | poly-ene |

polyethy-lene
polygamist(s)
poly-go-niza-tion
polyphonous
polystyrene
pomegranate
poroe-las-tic
postam-ble
postscript
pos-tu-ral
pream-ble
preloaded
pre-pro-ces-sor
pre-s-plit-ting
priestesses
pro-ce-du-ral
pro-cess
procu-rance
pro-ge-nies
progeny
pro-hibitive(ly)
prosci-utto
protestor(s)
protestor(s)
pro-to-ty-pal
pseu-dod-if-fer-en-tial
pseud-ofi-nite
pseud-ofinitely
pseud-o-forces
pseudonym
pseu-doword
psychedelic
psy-chs
pubescence
quadrat-ics
quadra-ture
quadriplegic
quain-ter(est)
quasiequiv-a-lence
quasi-hy-ponor-mal
quasir-ad-i-cal
quasiresid-ual
qua-sis-mooth
qua-sis-ta-tion-ary
qu-a-si-tri-an-gu-lar
quintessence
quintessen-tial
rab-bi-try
ra-dio-g-ra-phy
raf-f-ish(ly)
ramshackle
ravenous
re-ar-range-ment
re-ciproc-i-ties
reci-procity
rect-an-gle
ree-cho
restorable
ret-ri-bu-tion(s)
retrofit(ted)
rhinoceros
righ-teous(ness)
ringleader
robot
poly-eth-yl-ene
po-lyg-a-mist(s)
polyg-on-i-za-tion
po-lyph-o-nous
poly-styrene
pome-gran-ate
poro-elas-tic
post-am-ble
post-script
pos-tur-al
pre-am-ble
pre-loaded
pre-proces-sor
\pre-split-ting
priest-esses
pro-ce-dur-al
process
pro-cur-ance
prog-e-nies
prog-e-ny
pro-hib-i-tive(-ly)
pro-sciut-to
pro-test-er(s)
pro-tes-tor(s)
pro-to-typ-al
pseu-do-dif-fer-en-tial
pseu-do-fi-nite
pseu-do-fi-nite-ly
pseu-do-forces
pseu-do-nym
pseu-do-word
psy-che-del-ic
psychs
pu-bes-cence
qua-drat-ics
quad-ra-ture
quad-ri-pleg-ic
quaint-er(est)
qua-si-equiv-a-lence
qua-si-hy-po-nor-mal
qua-si-rad-i-cal
qua-si-resid-ual
qua-si-smooth
qua-si-sta-tion-ary
qua-si-tri-an-gu-lar
quin-tes-sence
quin-tes-sen-tial
rab-bit-ry
ra-di-og-ra-phy
raff-ish(-ly)
ram-shackle
rav-en-ous
re-arrange-ment
rec-i-proc-i-ties
rec-i-proc-i-ty
rec-tan-gle
re-echo
re-stor-able
ret-ri-bu-tion(s)
retro-fit(-ted)
rhi-noc-er-os
right-eous(-ness)
ring-leader
ro-bot

ro-bot-ics round-table
sales-clerk
sales-clerks sales-woman(en)
sal-mo-nel-la
sar-sa-par-il-la
sauer-kraut
scat-o-log-i-cal
sched-ul-ing
schiz-o-phrenic
schnau-zer
school-child(-ren)
school-teacher
scyth-ing
sem-a-phore
se-mes-ter
semi-def-i-nite
semi-ho-mo-thet-ic
semi-skilled
sero-epi-de-mi-o-log-i-cal
ser-vo-mech-anism
set-up
se-vere-ly
shape-able
shoe-string
side-step
side-swipe
sky-scraper
smoke-stack
snor-kel-ing
so-le-noid
solute(s)
sov-er-eign
spe-cious
spe-lunk-er
spend-thrift
spher-oid(al)
sphin-ges
spic-i-ly
spin-ors
spokes-woman(en)
sports-cast
spor-tive-ly
sports-wear
sports-writer
spright-lier
squea-mish
stand-alone
star-tling(ly)
sta-tis-tics
stealth-ily
steeple-chase
sto-chas-tic
straight-est
strange-ness
strat-a-gem
stretch-i-er
strong-hold
stu-pid-er(est)
sum-ma-ble
super-ego
super-egos
su-prema-cist

| surveil-lance | sur-veil-lance | Di-jk-stra | Dijk-stra |
| :---: | :---: | :---: | :---: |
| swim-m-ingly | swim-ming-ly | dy-namis-che | dy-na-mi-sche |
| symp-tomatic | symp-to-matic | En-glish | Eng-lish |
| syn-chromesh | syn-chro-mesh | Eu-1e-rian | Euler-ian |
| syn-chronous | syn-chro-nous | Febru-ary | Feb-ru-ary |
| syn-chrotron | syn-chro-tron | Forschungsin-sti-tut | For-schungs-in-sti-tut |
| talkative | talk-a-tive | funk-t-sional | funk-tsional |
| tapestry (ies) | ta-pes-try(ies) | Gaus-sian | Gauss-ian |
| tarpaulin | tar-pau-lin | Greif-swald | Greifs-wald |
| tele-g-ra-pher | te-leg-ra-pher | Grothendieck | Grothen-dieck |
| telekinetic | tele-ki-net-ic | Grundlehren | Grund-leh-ren |
| teler-obotics | tele-ro-bot-ics | Hamil-to-nian | Hamil-ton-ian |
| testbed | test-bed | Her-mi-tian | Her-mit-ian |
| tha-la-mus | thal-a-mus | Jan-uary | Jan-u-ary |
| ther-moe-las-tic | ther-mo-elas-tic | Japanese | Japan-ese |
| times-tamp | time-stamp | Kadomt-sev | Kad-om-tsev |
| to-po-graph-i-cal | topo-graph-i-cal | Karl-sruhe | Karls-ruhe |
| to-ques | toques | Ko-rteweg | Kor-te-weg |
| traitorous | trai-tor-ous | Leg-en-dre | Le-gendre |
| transceiver | trans-ceiver | Le-ices-ter | Leices-ter |
| transgress | trans-gress | Lip-s-chitz(ian) | Lip-schitz(-ian) |
| transvestite | trans-ves-tite | Manch-ester | Man-ches-ter |
| traversable | tra-vers-a-ble | Marko-vian | Mar-kov-ian |
| traver-sal (s) | tra-ver-sal(s) | Mas-sachusetts | Mass-a-chu-setts |
| treacheries | treach-eries | Ni-jmegen | Nij-me-gen |
| treach-ery | treach-ery | Noethe-rian | Noe-ther-ian |
| troubadour | trou-ba-dour | No-ord-wi-jk-er-hout | Noord-wijker-hout |
| turnaround | turn-around | Novem-ber | No-vem-ber |
| ty-pal | typ-al | Poincare | Poin-care |
| unattached | un-at-tached | Po-ten-tial-gle-ichung | Po-ten-tial-gleirchung |
| unerringly | un-err-ing-ly | rathskeller | raths-kel-ler |
| un-friendly (ier) | un-friend-ly(i-er) | Rie-man-nian | Rie-mann-ian |
| va-guer | vaguer | schot-tis-che | schot-tische |
| vaudeville | vaude-ville | Schrodinger | Schro-ding-er |
| vi-cars | vic-ars | Schwarzschild | Schwarz-schild |
| vil-lai-ness | vil-lain-ess | Septem-ber | Sep-tem-ber |
| viviparous | vi-vip-a-rous | Stokess-che | Stokes-sche |
| voiceprint | voice-print | tech-nis-che | tech-ni-sche |
| vs-pace | Ivspace | ve-r-all-ge-mein-erte | ver-all-ge-mein-erte |
| wallflower | wall-flower | Verteilun-gen | Ver-tei-lun-gen |
| wastew-a-ter | waste-water | Wahrschein-lichkeit-s-t | rie |
| waveg-uide | wave-guide |  | r-schein-lich-keits-the-o-rie |
| we-b-like | web-like | Winch-ester | Win-ches-ter |
| weeknight | week-night | Yingy-ong Shuxue Jisuan | Ying-yong Shu-xue Ji-suan |
| wheelchair | wheel-chair |  |  |
| whitesided | white-sided |  |  |
| whites-pace | white-space |  |  |
| widespread | wide-spread |  |  |
| wingspread | wing-spread |  |  |
| witchcraft | witch-craft |  |  |
| workhorse | work-horse |  |  |
| wraparound | wrap-around |  |  |
| wretched(ly) | wretch-ed(-ly) |  |  |
| yesteryear | yes-ter-year |  |  |

## Names and non-English words used in English text

| al-ge-brais-che | al-ge-brai-sche |
| :--- | :--- |
| au-toma-tisierter | auto-mati-sier-ter |
| Be-di-enung | Be-die-nung |
| Brow-n-ian | Brown-ian |
| Columbia | Co-lum-bia |
| Czechoslo-vakia | Czecho-slo-va-kia |

