



The fontawesome-free package

Up-to-date Lua^AT_EX support for Font Awesome

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Version 1.1.2 (2024-11-24); contains version 6.7.1 of the Font Awesome fonts

Abstract



There are several packages on CTAN that provide access to the free *Font Awesome* icons, but these have all become outdated and are missing many icons from newer versions of Font Awesome. The **fontawesome-free** package deals with this problem by building the L^AT_EX support dynamically from data in the fonts themselves; updating the package is as simple as replacing the font files with newer ones . The drawback of this approach is that the package only works with Lua^AT_EX .

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1 Usage

The fontawesome-free package contains all icons from the free subset of the Font Awesome fonts.

\fa The package provides one command, **\fa**, with a single mandatory argument: the *<name>* of the icon. Some icons have light or “open” variants, like  versus . Those variants are accessed by adding **-o** to the icon name: **\fa{file-pdf-o}** versus **\fa{file-pdf}**. A full list of icons and their names is included in the appendices.

\fa* By default, the Font Awesome icons have varying widths. The **\fa** command has a starred variant **\fa*** that produces fixed-width icons, by centering them in a 1.25em wide box.

License

The Font Awesome Free fonts are released under the SIL Open Font License, version 1.1. The rest of this package is released under the LaTeX Project Public License, version 1.3c.

All brand icons are trademarks of their respective owners. The use of these trademarks does not indicate endorsement of the trademark holder by Font Awesome or the author, nor vice versa. **Please do not use brand logos for any purpose except to represent the company, product, or service to which they refer.**

*URL:  github.com/drs-p/fontawesome-free






































Appendix A List of icons







































	<i>address-book</i>
	<i>address-book-o</i>
	<i>address-card</i>
	<i>address-card-o</i>
	<i>align-center</i>
	<i>align-justify</i>
	<i>align-left</i>
	<i>align-right</i>
	<i>anchor</i>
	<i>anchor-circle-check</i>
	<i>anchor-circle-exclamation</i>
	<i>anchor-circle-xmark</i>
	<i>anchor-lock</i>
	<i>angle-down</i>
	<i>angle-left</i>
	<i>angle-right</i>
	<i>angle-up</i>
	<i>angles-down</i>
	<i>angles-left</i>
	<i>angles-right</i>
	<i>angles-up</i>
	<i>ankh</i>
	<i>apple-whole</i>
	<i>archway</i>
	<i>arrow-down</i>
	<i>arrow-down-1-9</i>
	<i>arrow-down-9-1</i>
	<i>arrow-down-a-z</i>
	<i>arrow-down-long</i>
	<i>arrow-down-short-wide</i>
	<i>arrow-down-up-across-line</i>
	<i>arrow-down-up-lock</i>
	<i>arrow-down-wide-short</i>
	<i>arrow-down-z-a</i>
	<i>arrow-left</i>
	<i>arrow-left-long</i>
	<i>arrow-pointer</i>
	<i>arrow-right</i>
	<i>arrow-right-arrow-left</i>




	<i>arrow-right-from-bracket</i>
	<i>arrow-right-long</i>
	<i>arrow-right-to-bracket</i>
	<i>arrow-right-to-city</i>
	<i>arrow-rotate-left</i>
	<i>arrow-rotate-right</i>
	<i>arrow-trend-down</i>
	<i>arrow-trend-up</i>
	<i>arrow-turn-down</i>
	<i>arrow-turn-up</i>
	<i>arrow-up</i>
	<i>arrow-up-1-9</i>
	<i>arrow-up-9-1</i>
	<i>arrow-up-a-z</i>
	<i>arrow-up-from-bracket</i>
	<i>arrow-up-from-ground-water</i>
	<i>arrow-up-from-water-pump</i>
	<i>arrow-up-long</i>
	<i>arrow-up-right-dots</i>
	<i>arrow-up-right-from-square</i>
	<i>arrow-up-short-wide</i>
	<i>arrow-up-wide-short</i>
	<i>arrow-up-z-a</i>
	<i>arrows-down-to-line</i>
	<i>arrows-down-to-people</i>
	<i>arrows-left-right</i>
	<i>arrows-left-right-to-line</i>
	<i>arrows-rotate</i>
	<i>arrows-spin</i>
	<i>arrows-split-up-and-left</i>
	<i>arrows-to-circle</i>
	<i>arrows-to-dot</i>
	<i>arrows-to-eye</i>
	<i>arrows-turn-right</i>
	<i>arrows-turn-to-dots</i>
	<i>arrows-up-down</i>
	<i>arrows-up-down-left-right</i>
	<i>arrows-up-to-line</i>
	<i>atom</i>
	<i>audio-description</i>
	<i>award</i>
	<i>baby</i>







































	<i>baby-carriage</i>
	<i>backward</i>
	<i>backward-fast</i>
	<i>backward-step</i>
	<i>bacon</i>
	<i>bacteria</i>
	<i>bacterium</i>
	<i>bag-shopping</i>
	<i>bahai</i>
	<i>ban</i>
	<i>ban-smoking</i>
	<i>bandage</i>
	<i>barcode</i>
	<i>bars</i>
	<i>bars-progress</i>
	<i>bars-staggered</i>
	<i>baseball</i>
	<i>baseball-bat-ball</i>
	<i>basket-shopping</i>
	<i>basketball</i>
	<i>bath</i>
	<i>battery-empty</i>
	<i>battery-full</i>
	<i>battery-half</i>
	<i>battery-quarter</i>
	<i>battery-three-quarters</i>
	<i>bed</i>
	<i>bed-pulse</i>
	<i>beer-mug-empty</i>
	<i>bell</i>
	<i>bell-concierge</i>
	<i>bell-o</i>
	<i>bell-slash</i>
	<i>bell-slash-o</i>
	<i>bezier-curve</i>
	<i>bicycle</i>
	<i>binoculars</i>
	<i>biohazard</i>
	<i>blender</i>
	<i>blender-phone</i>
	<i>blog</i>
	<i>bold</i>







































 bolt
 bolt-lightning
 bomb
 bone
 bong
 book
 book-atlas
 book-bible
 book-bookmark
 book-journal-whills
 book-medical
 book-open
 book-open-reader
 book-quran
 book-skull
 book-tanakh
 bookmark
 bookmark-o
 border-all
 border-none
 border-top-left
 bore-hole
 bottle-droplet
 bottle-water
 bowl-food
 bowl-rice
 bowling-ball
 box
 box-archive
 box-open
 box-tissue
 boxes-packing
 boxes-stacked
 braille
 brain
 bread-slice
 bridge
 bridge-circle-check
 bridge-circle-exclamation
 bridge-circle-xmark
 bridge-lock
 bridge-water










































 briefcase
 briefcase-medical
 broom
 broom-ball
 brush
 bucket
 bug
 bug-slash
 bugs
 building
 building-circle-arrow-right
 building-circle-check
 building-circle-exclamation
 building-circle-xmark
 building-columns
 building-flag
 building-lock
 building-ngo
 building-o
 building-shield
 building-un
 building-user
 building-wheat
 bullhorn
 bullseye
 burger
 burst
 bus
 bus-simple
 business-time
 cable-car
 cake-candles
 calculator
 calendar
 calendar-check
 calendar-check-o
 calendar-day
 calendar-days
 calendar-days-o
 calendar-minus
 calendar-minus-o

 calendar-o
 calendar-plus
 calendar-plus-o
 calendar-week
 calendar-xmark
 calendar-xmark-o
 camera
 camera-retro
 camera-rotate
 campground
 candy-cane
 cannabis
 capsules
 car
 car-battery
 car-burst
 car-on
 car-rear
 car-side
 car-tunnel
 caravan
 caret-down
 caret-left
 caret-right
 caret-up
 carrot
 cart-arrow-down
 cart-flatbed
 cart-flatbed-suitcase
 cart-plus
 cart-shopping
 cash-register
 cat
 certificate
 chair
 chalkboard
 chalkboard-user
 champagne-glasses
 charging-station
 chart-area
 chart-bar
 chart-bar-o

 *chart-column*
 *chart-diagram*
 *chart-gantt*
 *chart-line*
 *chart-pie*
 *chart-simple*
 *check*
 *check-double*
 *check-to-slot*
 *cheese*
 *chess*
 *chess-bishop*
 *chess-bishop-o*
 *chess-board*
 *chess-king*
 *chess-king-o*
 *chess-knight*
 *chess-knight-o*
 *chess-pawn*
 *chess-pawn-o*
 *chess-queen*
 *chess-queen-o*
 *chess-rook*
 *chess-rook-o*
 *chevron-down*
 *chevron-left*
 *chevron-right*
 *chevron-up*
 *child*
 *child-combatant*
 *child-dress*
 *child-reaching*
 *children*
 *church*
 *circle*
 *circle-arrow-down*
 *circle-arrow-left*
 *circle-arrow-right*
 circle-arrow-up
 circle-check
 circle-check-o
 circle-chevron-down

 *circle-chevron-left*
 *circle-chevron-right*
 *circle-chevron-up*
 *circle-dollar-to-slot*
 *circle-dot*
 *circle-dot-o*
 *circle-down*
 *circle-down-o*
 *circle-exclamation*
 *circle-h*
 *circle-half-stroke*
 *circle-info*
 *circle-left*
 *circle-left-o*
 *circle-minus*
 *circle-nodes*
 *circle-notch*
 *circle-o*
 *circle-pause*
 *circle-pause-o*
 *circle-play*
 *circle-play-o*
 *circle-plus*
 *circle-question*
 *circle-question-o*
 *circle-radiation*
 *circle-right*
 *circle-right-o*
 *circle-stop*
 *circle-stop-o*
 *circle-up*
 *circle-up-o*
 *circle-user*
 *circle-user-o*
 *circle-xmark*
 *circle-xmark-o*
 *city*
 *clapperboard*
 clipboard
 clipboard-check
 clipboard-list










































 *clipboard-o*
 *clipboard-question*
 *clipboard-user*
 *clock*
 *clock-o*
 *clock-rotate-left*
 *clone*
 *clone-o*
 *closed-captioning*
 *closed-captioning-o*
 *cloud*
 *cloud-arrow-down*
 *cloud-arrow-up*
 *cloud-bolt*
 *cloud-meatball*
 *cloud-moon*
 *cloud-moon-rain*
 *cloud-rain*
 *cloud-showers-heavy*
 *cloud-showers-water*
 *cloud-sun*
 *cloud-sun-rain*
 *clover*
 *code*
 *code-branch*
 *code-commit*
 *code-compare*
 *code-fork*
 *code-merge*
 *code-pull-request*
 *coins*
 *comment*
 *comment-dollar*
 *comment-dots*
 *comment-dots-o*
 *comment-medical*
 *comment-nodes*
 *comment-o*
 comment-slash
 comment-sms
 comments
 comments-dollar

 *comments-o*
 *compact-disc*
 *compass*
 *compass-drafting*
 *compass-o*
 *compress*
 *computer*
 *computer-mouse*
 *cookie*
 *cookie-bite*
 *copy*
 *copy-o*
 *copyright*
 *copyright-o*
 *couch*
 *cow*
 *credit-card*
 *credit-card-o*
 *crop*
 *crop-simple*
 *cross*
 *crosshairs*
 *crow*
 *crown*
 *crutch*
 *cube*
 *cubes*
 *cubes-stacked*
 *database*
 *delete-left*
 *democrat*
 *desktop*
 *dharmachakra*
 *diagram-next*
 *diagram-predecessor*
 *diagram-project*
 *diagram-successor*
 *diamond*
 *diamond-turn-right*
 *dice*
 *dice-d20*
 dice-d6











































 *dice-five*
 *dice-four*
 *dice-one*
 *dice-six*
 *dice-three*
 *dice-two*
 *disease*
 *display*
 *dna*
 *dog*
 *dolly*
 *door-closed*
 *door-open*
 *dove*
 *down-left-and-up-right-to-center*
 *down-long*
 *download*
 *dragon*
 *draw-polygon*
 *droplet*
 *droplet-slash*
 *drum*
 *drum-steelpan*
 *drumstick-bite*
 *dumbbell*
 *dumpster*
 *dumpster-fire*
 *dungeon*
 *ear-deaf*
 *ear-listen*
 *earth-africa*
 *earth-america*
 *earth-asia*
 *earth-europe*
 *earth-oceania*
 *egg*
 *eject*
 *elevator*
 *ellipsis*
 *ellipsis-vertical*
 *envelope*
 envelope-circle-check

 *envelope-o*
 *envelope-open*
 *envelope-open-o*
 *envelope-open-text*
 *envelopes-bulk*
 *eraser*
 *ethernet*
 *expand*
 *explosion*
 *eye*
 *eye-dropper*
 *eye-low-vision*
 *eye-o*
 *eye-slash*
 *eye-slash-o*
 *face-angry*
 *face-angry-o*
 *face-dizzy*
 *face-dizzy-o*
 *face-flushed*
 *face-flushed-o*
 *face-frown*
 *face-frown-o*
 *face-frown-open*
 *face-frown-open-o*
 *face-grimace*
 *face-grimace-o*
 *face-grin*
 *face-grin-beam*
 *face-grin-beam-o*
 *face-grin-beam-sweat*
 *face-grin-beam-sweat-o*
 *face-grin-hearts*
 *face-grin-hearts-o*
 *face-grin-o*
 *face-grin-squint*
 *face-grin-squint-o*
 *face-grin-squint-tears*
 *face-grin-squint-tears-o*
 *face-grin-stars*
 *face-grin-stars-o*

 *face-grin-tears*
 *face-grin-tears-o*
 *face-grin-tongue*
 *face-grin-tongue-o*
 *face-grin-tongue-squint*
 *face-grin-tongue-squint-o*
 *face-grin-tongue-wink*
 *face-grin-tongue-wink-o*
 *face-grin-wide*
 *face-grin-wide-o*
 *face-grin-wink*
 *face-grin-wink-o*
 *face-kiss*
 *face-kiss-beam*
 *face-kiss-beam-o*
 *face-kiss-o*
 *face-kiss-wink-heart*
 *face-kiss-wink-heart-o*
 *face-laugh*
 *face-laugh-beam*
 *face-laugh-beam-o*
 *face-laugh-o*
 *face-laugh-squint*
 *face-laugh-squint-o*
 *face-laugh-wink*
 *face-laugh-wink-o*
 *face-meh*
 *face-meh-blank*
 *face-meh-blank-o*
 *face-meh-o*
 *face-rolling-eyes*
 *face-rolling-eyes-o*
 *face-sad-cry*
 *face-sad-cry-o*
 *face-sad-tear*
 *face-sad-tear-o*
 *face-smile*
 *face-smile-beam*
 *face-smile-beam-o*
 *face-smile-o*
 *face-smile-wink*

 *face-smile-wink-o*
 *face-surprise*
 *face-surprise-o*
 *face-tired*
 *face-tired-o*
 *fan*
 *faucet*
 *faucet-drip*
 *fax*
 *feather*
 *feather-pointed*
 *ferry*
 *file*
 *file-arrow-down*
 *file-arrow-up*
 *file-audio*
 *file-audio-o*
 *file-circle-check*
 *file-circle-exclamation*
 *file-circle-minus*
 *file-circle-plus*
 *file-circle-question*
 *file-circle-xmark*
 *file-code*
 *file-code-o*
 *file-contract*
 *file-csv*
 *file-excel*
 *file-excel-o*
 *file-export*
 *file-fragment*
 *file-half-dashed*
 *file-image*
 *file-image-o*
 *file-import*
 *file-invoice*
 *file-invoice-dollar*
 *file-lines*
 *file-lines-o*
 *file-medical*
 *file-o*

 *file-pdf*
 *file-pdf-o*
 *file-pen*
 *file-powerpoint*
 *file-powerpoint-o*
 *file-prescription*
 *file-shield*
 *file-signature*
 *file-video*
 *file-video-o*
 *file-waveform*
 *file-word*
 *file-word-o*
 *file-zipper*
 *file-zipper-o*
 *fill*
 *fill-drip*
 *film*
 *filter*
 *filter-circle-dollar*
 *filter-circle-xmark*
 *fingerprint*
 *fire*
 *fire-burner*
 *fire-extinguisher*
 *fire-flame-curved*
 *fire-flame-simple*
 *fish*
 *fish-fins*
 *flag*
 *flag-checkered*
 *flag-o*
 *flag-usa*
 *flask*
 *flask-vial*
 *floppy-disk*
 *floppy-disk-o*
 *folder*
 *folder-closed*
 *folder-closed-o*
 *folder-minus*

 *folder-o*
 *folder-open*
 *folder-open-o*
 *folder-plus*
 *folder-tree*
 *font*
 *font-awesome*
 *font-awesome-o*
 *football*
 *forward*
 *forward-fast*
 *forward-step*
 *frog*
 *futbol*
 *futbol-o*
 *gamepad*
 *gas-pump*
 *gauge*
 *gauge-high*
 *gauge-simple*
 *gauge-simple-high*
 *gavel*
 *gear*
 *gears*
 *gem*
 *gem-o*
 *genderless*
 *ghost*
 *gift*
 *gifts*
 *glass-water*
 *glass-water-droplet*
 *glasses*
 *globe*
 *golf-ball-tee*
 *gopuram*
 *graduation-cap*
 *grip*
 *grip-lines*
 *grip-lines-vertical*
 *grip-vertical*
 *group-arrows-rotate*

 *guitar*
 *gun*
 *hammer*
 *hamsa*
 *hand*
 *hand-back-fist*
 *hand-back-fist-o*
 *hand-dots*
 *hand-fist*
 *hand-holding*
 *hand-holding-dollar*
 *hand-holding-droplet*
 *hand-holding-hand*
 *hand-holding-heart*
 *hand-holding-medical*
 *hand-lizard*
 *hand-lizard-o*
 *hand-middle-finger*
 *hand-o*
 *hand-peace*
 *hand-peace-o*
 *hand-point-down*
 *hand-point-down-o*
 *hand-point-left*
 *hand-point-left-o*
 *hand-point-right*
 *hand-point-right-o*
 *hand-point-up*
 *hand-point-up-o*
 *hand-pointer*
 *hand-pointer-o*
 *hand-scissors*
 *hand-scissors-o*
 *hand-sparkles*
 *hand-spock*
 *hand-spock-o*
 *handcuffs*
 *hands*
 *hands-asl-interpreting*
 *hands-bound*
 *hands-bubbles*

 *hands-clapping*
 *hands-holding*
 *hands-holding-child*
 *hands-holding-circle*
 *hands-praying*
 *handshake*
 *handshake-angle*
 *handshake-o*
 *handshake-simple*
 *handshake-simple-slash*
 *handshake-slash*
 *hanukiah*
 *hard-drive*
 *hard-drive-o*
 *hat-cowboy*
 *hat-cowboy-side*
 *hat-wizard*
 *head-side-cough*
 *head-side-cough-slash*
 *head-side-mask*
 *head-side-virus*
 *heading*
 *headphones*
 *headphones-simple*
 *headset*
 *heart*
 *heart-circle-bolt*
 *heart-circle-check*
 *heart-circle-exclamation*
 *heart-circle-minus*
 *heart-circle-plus*
 *heart-circle-xmark*
 *heart-crack*
 *heart-o*
 *heart-pulse*
 *helicopter*
 *helicopter-symbol*
 *helmet-safety*
 *helmet-un*
 *hexagon-nodes*
 *hexagon-nodes-bolt*
 *highlighter*










































	<i>hill-avalanche</i>
	<i>hill-rockslide</i>
	<i>hippo</i>
	<i>hockey-puck</i>
	<i>holly-berry</i>
	<i>horse</i>
	<i>horse-head</i>
	<i>hospital</i>
	<i>hospital-o</i>
	<i>hospital-user</i>
	<i>hot-tub-person</i>
	<i>hotdog</i>
	<i>hotel</i>
	<i>hourglass</i>
	<i>hourglass-end</i>
	<i>hourglass-half</i>
	<i>hourglass-half-o</i>
	<i>hourglass-o</i>
	<i>hourglass-start</i>
	<i>house</i>
	<i>house-chimney</i>
	<i>house-chimney-crack</i>
	<i>house-chimney-medical</i>
	<i>house-chimney-user</i>
	<i>house-chimney-window</i>
	<i>house-circle-check</i>
	<i>house-circle-exclamation</i>
	<i>house-circle-xmark</i>
	<i>house-crack</i>
	<i>house-fire</i>
	<i>house-flag</i>
	<i>house-flood-water</i>
	<i>house-flood-water-circle-arrow-right</i>
	<i>house-laptop</i>
	<i>house-lock</i>
	<i>house-medical</i>
	<i>house-medical-circle-check</i>
	<i>house-medical-circle-exclamation</i>
	<i>house-medical-circle-xmark</i>
	<i>house-medical-flag</i>
	<i>house-signal</i>

	<i>house-tsunami</i>
	<i>house-user</i>
	<i>hurricane</i>
	<i>i-cursor</i>
	<i>ice-cream</i>
	<i>icicles</i>
	<i>icons</i>
	<i>id-badge</i>
	<i>id-badge-o</i>
	<i>id-card</i>
	<i>id-card-clip</i>
	<i>id-card-o</i>
	<i>igloo</i>
	<i>image</i>
	<i>image-o</i>
	<i>image-portrait</i>
	<i>images</i>
	<i>images-o</i>
	<i>inbox</i>
	<i>indent</i>
	<i>industry</i>
	<i>infinity</i>
	<i>info</i>
	<i>italic</i>
	<i>jar</i>
	<i>jar-wheat</i>
	<i>jedi</i>
	<i>jet-fighter</i>
	<i>jet-fighter-up</i>
	<i>joint</i>
	<i>jug-detergent</i>
	<i>kaaba</i>
	<i>key</i>
	<i>keyboard</i>
	<i>keyboard-o</i>
	<i>khanda</i>
	<i>kit-medical</i>
	<i>kitchen-set</i>
	<i>kiwi-bird</i>
	<i>land-mine-on</i>
	<i>landmark</i>
	<i>landmark-dome</i>










































	<i>landmark-flag</i>
	<i>language</i>
	<i>laptop</i>
	<i>laptop-code</i>
	<i>laptop-file</i>
	<i>laptop-medical</i>
	<i>layer-group</i>
	<i>leaf</i>
	<i>left-long</i>
	<i>left-right</i>
	<i>lemon</i>
	<i>lemon-o</i>
	<i>life-ring</i>
	<i>life-ring-o</i>
	<i>lightbulb</i>
	<i>lightbulb-o</i>
	<i>lines-leaning</i>
	<i>link</i>
	<i>link-slash</i>
	<i>list</i>
	<i>list-check</i>
	<i>list-ol</i>
	<i>list-ul</i>
	<i>location-arrow</i>
	<i>location-crosshairs</i>
	<i>location-dot</i>
	<i>location-pin</i>
	<i>location-pin-lock</i>
	<i>lock</i>
	<i>lock-open</i>
	<i>locust</i>
	<i>lungs</i>
	<i>lungs-virus</i>
	<i>magnet</i>
	<i>magnifying-glass</i>
	<i>magnifying-glass-arrow-right</i>
	<i>magnifying-glass-chart</i>
	<i>magnifying-glass-dollar</i>
	<i>magnifying-glass-location</i>
	<i>magnifying-glass-minus</i>
	<i>magnifying-glass-plus</i>
	<i>map</i>

 *map-location*
 *map-location-dot*
 *map-o*
 *map-pin*
 *marker*
 *mars*
 *mars-and-venus*
 *mars-and-venus-burst*
 *mars-double*
 *mars-stroke*
 *mars-stroke-right*
 *mars-stroke-up*
 *martini-glass*
 *martini-glass-citrus*
 *martini-glass-empty*
 *mask*
 *mask-face*
 *mask-ventilator*
 *masks-theater*
 *mattress-pillow*
 *maximize*
 *medal*
 *memory*
 *menorah*
 *mercury*
 *message*
 *message-o*
 *meteor*
 *microchip*
 *microphone*
 *microphone-lines*
 *microphone-lines-slash*
 *microphone-slash*
 *microscope*
 *minimize*
 *mitten*
 *mobile*
 *mobile-button*
 *mobile-retro*
 *mobile-screen*
 *mobile-screen-button*

 *money-bill*
 *money-bill-1*
 *money-bill-1-o*
 *money-bill-1-wave*
 *money-bill-transfer*
 *money-bill-trend-up*
 *money-bill-wave*
 *money-bill-wheat*
 *money-bills*
 *money-check*
 *money-check-dollar*
 *monument*
 *moon*
 *moon-o*
 *mortar-pestle*
 *mosque*
 *mosquito*
 *mosquito-net*
 *motorcycle*
 *mound*
 *mountain*
 *mountain-city*
 *mountain-sun*
 *mug-hot*
 *mug-saucer*
 *music*
 *network-wired*
 *neuter*
 *newspaper*
 *newspaper-o*
 *not-equal*
 *note-sticky*
 *note-sticky-o*
 *notes-medical*
 *object-group*
 *object-group-o*
 *object-ungroup*
 *object-ungroup-o*
 *oil-can*
 *oil-well*
 *om*
 otter

 *outdent*
 *pager*
 *paint-roller*
 *paintbrush*
 *palette*
 *pallet*
 *panorama*
 *paper-plane*
 *paper-plane-o*
 *paperclip*
 *parachute-box*
 *paragraph*
 *passport*
 *paste*
 *paste-o*
 *pause*
 *paw*
 *peace*
 *pen*
 *pen-clip*
 *pen-fancy*
 *pen-nib*
 *pen-ruler*
 *pen-to-square*
 *pen-to-square-o*
 *pencil*
 *people-arrows*
 *people-carry-box*
 *people-group*
 *people-line*
 *people-pulling*
 *people-robbery*
 *people-roof*
 *pepper-hot*
 *person*
 *person-arrow-down-to-line*
 *person-arrow-up-from-line*
 *person-biking*
 *person-booth*
 *person-breastfeeding*
 *person-burst*






 *person-cane*
 *person-chalkboard*
 *person-circle-check*
 *person-circle-exclamation*
 *person-circle-minus*
 *person-circle-plus*
 *person-circle-question*
 *person-circle-xmark*
 *person-digging*
 *person-dots-from-line*
 *person-dress*
 *person-dress-burst*
 *person-drowning*
 *person-falling*
 *person-falling-burst*
 *person-half-dress*
 *person-harassing*
 *person-hiking*
 *person-military-pointing*
 *person-military-rifle*
 *person-military-to-person*
 *person-praying*
 *person-pregnant*
 *person-rays*
 *person-rifle*
 *person-running*
 *person-shelter*
 *person-skating*
 *person-skiing*
 *person-skiing-nordic*
 *person-snowboarding*
 *person-swimming*
 *person-through-window*
 *person-walking*
 *person-walking-arrow-loop-left*
 *person-walking-arrow-right*
 *person-walking-dashed-line-arrow-right*
 *person-walking-luggage*
 *person-walking-with-cane*
 *phone*
 *phone-flip*










































 *phone-slash*
 *phone-volume*
 *photo-film*
 *piggy-bank*
 *pills*
 *pizza-slice*
 *place-of-worship*
 *plane*
 *plane-arrival*
 *plane-circle-check*
 *plane-circle-exclamation*
 *plane-circle-xmark*
 *plane-departure*
 *plane-lock*
 *plane-slash*
 *plane-up*
 *plant-wilt*
 *plate-wheat*
 *play*
 *plug*
 *plug-circle-bolt*
 *plug-circle-check*
 *plug-circle-exclamation*
 *plug-circle-minus*
 *plug-circle-plus*
 *plug-circle-xmark*
 *podcast*
 *poo*
 *poo-storm*
 *poop*
 *power-off*
 *prescription*
 *prescription-bottle*
 *prescription-bottle-medical*
 *print*
 *pump-medical*
 *pump-soap*
 *puzzle-piece*
 *qrcode*
 *quote-left*
 *quote-right*











































 *radiation*
 *radio*
 *rainbow*
 *ranking-star*
 *receipt*
 *record-vinyl*
 *rectangle-ad*
 *rectangle-list*
 *rectangle-list-o*
 *rectangle-xmark*
 *rectangle-xmark-o*
 *recycle*
 *registered*
 *registered-o*
 *repeat*
 *reply*
 *reply-all*
 *republican*
 *restroom*
 *retweet*
 *ribbon*
 *right-from-bracket*
 *right-left*
 *right-long*
 *right-to-bracket*
 *ring*
 *road*
 *road-barrier*
 *road-bridge*
 *road-circle-check*
 *road-circle-exclamation*
 *road-circle-xmark*
 *road-lock*
 *road-spikes*
 *robot*
 *rocket*
 *rotate*
 *rotate-left*
 *rotate-right*
 *route*
 *rss*
 *rug*

 ruler
 ruler-combined
 ruler-horizontal
 ruler-vertical
 sack-dollar
 sack-xmark
 sailboat
 satellite
 satellite-dish
 scale-balanced
 scale-unbalanced
 scale-unbalanced-flip
 school
 school-circle-check
 school-circle-exclamation
 school-circle-xmark
 school-flag
 school-lock
 scissors
 screwdriver
 screwdriver-wrench
 scroll
 scroll-torah
 sd-card
 section
 seedling
 server
 shapes
 share
 share-from-square
 share-from-square-o
 share-nodes
 sheet-plastic
 shield
 shield-cat
 shield-dog
 shield-halved
 shield-heart
 shield-virus
 ship
 shirt










































 shoe-prints
 shop
 shop-lock
 shop-slash
 shower
 shrimp
 shuffle
 shuttle-space
 sign-hanging
 signal
 signature
 signs-post
 sim-card
 sink
 sitemap
 skull
 skull-crossbones
 slash
 sleigh
 sliders
 smog
 smoking
 snowflake
 snowflake-o
 snowman
 snowplow
 soap
 socks
 solar-panel
 sort
 sort-down
 sort-up
 spa
 spaghetti-monster-flying
 spell-check
 spider
 spinner
 plotch
 spoon
 spray-can
 spray-can-sparkles
 square

 square-arrow-up-right
 square-binary
 square-caret-down
 square-caret-down-o
 square-caret-left
 square-caret-left-o
 square-caret-right
 square-caret-right-o
 square-caret-up
 square-caret-up-o
 square-check
 square-check-o
 square-envelope
 square-full
 square-full-o
 square-h
 square-minus
 square-minus-o
 square-nfi
 square-o
 square-parking
 square-pen
 square-person-confined
 square-phone
 square-phone-flip
 square-plus
 square-plus-o
 square-poll-horizontal
 square-poll-vertical
 square-root-variable
 square-rss
 square-share-nodes
 square-up-right
 square-virus
 square-xmark
 staff-snake
 stairs
 stamp
 stapler
 star
 star-and-crescent
 star-half

	<i>star-half-o</i>
	<i>star-half-stroke</i>
	<i>star-half-stroke-o</i>
	<i>star-o</i>
	<i>star-of-david</i>
	<i>star-of-life</i>
	<i>stethoscope</i>
	<i>stop</i>
	<i>stopwatch</i>
	<i>stopwatch-20</i>
	<i>store</i>
	<i>store-slash</i>
	<i>street-view</i>
	<i>strikethrough</i>
	<i>stroopwafel</i>
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	<i>suitcase</i>
	<i>suitcase-medical</i>
	<i>suitcase-rolling</i>
	<i>sun</i>
	<i>sun-o</i>
	<i>sun-plant-wilt</i>
	<i>superscript</i>
	<i>swatchbook</i>
	<i>synagogue</i>
	<i>syringe</i>
	<i>table</i>
	<i>table-cells</i>
	<i>table-cells-column-lock</i>
	<i>table-cells-large</i>
	<i>table-cells-row-lock</i>
	<i>table-cells-row-unlock</i>
	<i>table-columns</i>
	<i>table-list</i>
	<i>table-tennis-paddle-ball</i>
	<i>tablet</i>
	<i>tablet-button</i>
	<i>tablet-screen-button</i>
	<i>tablets</i>
	<i>tachograph-digital</i>
	<i>tag</i>

	<i>tags</i>
	<i>tape</i>
	<i>tarp</i>
	<i>tarp-droplet</i>
	<i>taxi</i>
	<i>teeth</i>
	<i>teeth-open</i>
	<i>temperature-arrow-down</i>
	<i>temperature-arrow-up</i>
	<i>temperature-empty</i>
	<i>temperature-full</i>
	<i>temperature-half</i>
	<i>temperature-high</i>
	<i>temperature-low</i>
	<i>temperature-quarter</i>
	<i>temperature-three-quarters</i>
	<i>tent</i>
	<i>tent-arrow-down-to-line</i>
	<i>tent-arrow-left-right</i>
	<i>tent-arrow-turn-left</i>
	<i>tent-arrows-down</i>
	<i>tents</i>
	<i>terminal</i>
	<i>text-height</i>
	<i>text-slash</i>
	<i>text-width</i>
	<i>thermometer</i>
	<i>thumbs-down</i>
	<i>thumbs-down-o</i>
	<i>thumbs-up</i>
	<i>thumbs-up-o</i>
	<i>thumbtack</i>
	<i>thumbtack-slash</i>
	<i>ticket</i>
	<i>ticket-simple</i>
	<i>timeline</i>
	<i>toggle-off</i>
	<i>toggle-on</i>
	<i>toilet</i>
	<i>toilet-paper</i>
	<i>toilet-paper-slash</i>
	<i>toilet-portable</i>

	<i>toilets-portable</i>
	<i>toolbox</i>
	<i>tooth</i>
	<i>torii-gate</i>
	<i>tornado</i>
	<i>tower-broadcast</i>
	<i>tower-cell</i>
	<i>tower-observation</i>
	<i>tractor</i>
	<i>traffic-light</i>
	<i>trailer</i>
	<i>train</i>
	<i>train-subway</i>
	<i>train-tram</i>
	<i>transgender</i>
	<i>trash</i>
	<i>trash-arrow-up</i>
	<i>trash-can</i>
	<i>trash-can-arrow-up</i>
	<i>trash-can-o</i>
	<i>tree</i>
	<i>tree-city</i>
	<i>triangle-exclamation</i>
	<i>trophy</i>
	<i>trowel</i>
	<i>trowel-bricks</i>
	<i>truck</i>
	<i>truck-arrow-right</i>
	<i>truck-droplet</i>
	<i>truck-fast</i>
	<i>truck-field</i>
	<i>truck-field-un</i>
	<i>truck-front</i>
	<i>truck-medical</i>
	<i>truck-monster</i>
	<i>truck-moving</i>
	<i>truck-pickup</i>
	<i>truck-plane</i>
	<i>truck-ramp-box</i>
	<i>tty</i>
	<i>turn-down</i>

	<i>turn-up</i>
	<i>tv</i>
	<i>umbrella</i>
	<i>umbrella-beach</i>
	<i>underline</i>
	<i>universal-access</i>
	<i>unlock</i>
	<i>unlock-keyhole</i>
	<i>up-down</i>
	<i>up-down-left-right</i>
	<i>up-long</i>
	<i>up-right-and-down-left-from-center</i>
	<i>up-right-from-square</i>
	<i>upload</i>
	<i>user</i>
	<i>user-astronaut</i>
	<i>user-check</i>
	<i>user-clock</i>
	<i>user-doctor</i>
	<i>user-gear</i>
	<i>user-graduate</i>
	<i>user-group</i>
	<i>user-injured</i>
	<i>user-large</i>
	<i>user-large-slash</i>
	<i>user-lock</i>
	<i>user-minus</i>
	<i>user-ninja</i>
	<i>user-nurse</i>
	<i>user-o</i>
	<i>user-pen</i>
	<i>user-plus</i>
	<i>user-secret</i>
	<i>user-shield</i>
	<i>user-slash</i>
	<i>user-tag</i>
	<i>user-tie</i>
	<i>user-xmark</i>
	<i>users</i>
	<i>users-between-lines</i>
	<i>users-gear</i>

	<i>users-line</i>
	<i>users-rays</i>
	<i>users-rectangle</i>
	<i>users-slash</i>
	<i>users-viewfinder</i>
	<i>utensils</i>
	<i>van-shuttle</i>
	<i>vault</i>
	<i>vector-square</i>
	<i>venus</i>
	<i>venus-double</i>
	<i>venus-mars</i>
	<i>vest</i>
	<i>vest-patches</i>
	<i>vial</i>
	<i>vial-circle-check</i>
	<i>vial-virus</i>
	<i>vials</i>
	<i>video</i>
	<i>video-slash</i>
	<i>vihara</i>
	<i>virus</i>
	<i>virus-covid</i>
	<i>virus-covid-slash</i>
	<i>virus-slash</i>
	<i>viruses</i>
	<i>voicemail</i>
	<i>volcano</i>
	<i>volleyball</i>
	<i>volume-high</i>
	<i>volume-low</i>
	<i>volume-off</i>
	<i>volume-xmark</i>
	<i>vr-cardboard</i>
	<i>walkie-talkie</i>
	<i>wallet</i>
	<i>wand-magic</i>
	<i>wand-magic-sparkles</i>
	<i>wand-sparkles</i>
	<i>warehouse</i>
	<i>water</i>
	<i>water-ladder</i>

	<i>wave-square</i>
	<i>web-awesome</i>
	<i>weight-hanging</i>
	<i>weight-scale</i>
	<i>wheat-awn</i>
	<i>wheat-awn-circle-exclamation</i>
	<i>wheelchair</i>
	<i>wheelchair-move</i>
	<i>whiskey-glass</i>
	<i>wifi</i>
	<i>wind</i>
	<i>window-maximize</i>
	<i>window-maximize-o</i>
	<i>window-minimize</i>
	<i>window-minimize-o</i>
	<i>window-restore</i>
	<i>window-restore-o</i>
	<i>wine-bottle</i>
	<i>wine-glass</i>
	<i>wine-glass-empty</i>
	<i>worm</i>
	<i>wrench</i>
	<i>x-ray</i>
	<i>xmark</i>
	<i>xmarks-lines</i>
	<i>yin-yang</i>

Appendix B List of brands

 42-group
 500px
 accessible-icon
 accusoft
 adn
 adversal
 affiliatetheme
 airbnb
 algolia
 alipay
 amazon
 amazon-pay
 amilia
 android
 angellist
 angrycreative
 angular
 app-store
 app-store-ios
 apper
 apple
 apple-pay
 artstation
 asymmetrik
 atlassian
 audible
 autoprefixer
 avianex
 aviato
 aws
 bandcamp
 battle-net
 behance
 bilibili
 bimobject
 bitbucket
 bitcoin
 bity
 black-tie

 blackberry
 blogger
 blogger-b
 bluesky
 bluetooth
 bluetooth-b
 bootstrap
 bots
 brave
 brave-reverse
 btc
 buffer
 buromobelexperte
 buy-n-large
 buysellads
 canadian-maple-leaf
 cc-amazon-pay
 cc-amex
 cc-apple-pay
 cc-diners-club
 cc-discover
 cc-jcb
 cc-mastercard
 cc-paypal
 cc-stripe
 cc-visa
 centercode
 centos
 chrome
 chromecast
 cloudflare
 cloudscale
 cloudsmith
 cloudversify
 cmplid
 codepen
 codiepie
 confluence
 connectdevelop
 contao
 cotton-bureau
 cpanel










































 creative-commons
 creative-commons-by
 creative-commons-nc
 creative-commons-nc-eu
 creative-commons-nc-jp
 creative-commons-nd
 creative-commons-pd
 creative-commons-pd-alt
 creative-commons-remix
 creative-commons-sa
 creative-commons-sampling
 creative-commons-sampling-plus
 creative-commons-share
 creative-commons-zero
 critical-role
 css
 css3
 css3-alt
 cuttlefish
 d-and-d
 d-and-d-beyond
 dailymotion
 dart-lang
 dashcube
 debian
 deezer
 delicious
 deploydog
 deskpro
 dev
 deviantart
 dhl
 diaspora
 digg
 digital-ocean
 discord
 discourse
 dochub
 docker
 draft2digital
 dribbble
 dropbox

 drupal
 dyalog
 earlybirds
 ebay
 edge
 edge-legacy
 elementor
 ello
 ember
 empire
 envira
 erlang
 ethereum
 etsy
 evernote
 expeditedssl
 facebook
 facebook-f
 facebook-messenger
 fantasy-flight-games
 fedex
 fedora
 figma
 files-pinwheel
 firefox
 firefox-browser
 first-order
 first-order-alt
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 magento
 mailchimp

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 slideshare
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 soundcloud
 sourcetree
 space-awesome
 speakap
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