The **fontawesome-free** package
Up-to-date LuaLATEX support for Font Awesome ⚑

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Version 1.0.0; contains version 6.6.0 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There are several packages on CTAN that provide access to the free *Font Awesome* icons, but these have all become outdated and are missing many icons from newer versions of Font Awesome.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 LATEX 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 LuaLATEX ☹.

Contents

1   Usage

The fontawesome-free package contains all 2,050 icons from the free subset of the Font Awesome
`\fa` fonts. 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.

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

Appendix A   List of icons

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

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

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

bolt	briefcase	calendar-o
bolt-lightning	briefcase-medical	calendar-plus
bomb	broom	calendar-plus-o
bone	broom-ball	calendar-week
bong	brush	calendar-xmark
book	bucket	calendar-xmark-o
book-atlas	bug	camera
book-bible	bug-slash	camera-retro
book-bookmark	bugs	camera-rotate
book-journal-whills	building	campground
book-medical	building-circle-arrow-right	candy-cane
book-open	building-circle-check	cannabis
book-open-reader	building-circle-exclamation	capsules
book-quran	building-circle-xmark	car
book-skull	building-columns	car-battery
book-tanakh	building-flag	car-burst
bookmark	building-lock	car-on
bookmark-o	building-ngo	car-rear
border-all	building-o	car-side
border-none	building-shield	car-tunnel
border-top-left	building-un	caravan
bore-hole	building-user	caret-down
bottle-droplet	building-wheat	caret-left
bottle-water	bullhorn	caret-right
bowl-food	bullseye	caret-up
bowl-rice	burger	carrot
bowling-ball	burst	cart-arrow-down
box	bus	cart-flatbed
box-archive	bus-simple	cart-flatbed-suitcase
box-open	business-time	cart-plus
box-tissue	cable-car	cart-shopping
boxes-packing	cake-candles	cash-register
boxes-stacked	calculator	cat
braille	calendar	certificate
brain	calendar-check	chair
bread-slice	calendar-check-o	chalkboard
bridge	calendar-day	chalkboard-user
bridge-circle-check	calendar-days	champagne-glasses
bridge-circle-exclamation	calendar-days-o	charging-station
bridge-circle-xmark	calendar-minus	chart-area
bridge-lock	calendar-minus-o	chart-bar
bridge-water		chart-bar-o

chart-column	
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-o	
comment-slash	
comment-sms	
comments	
comments-dollar	
comments-o	
compact-disc	

compass		dice-one		envelope-open-o			
compass-drafting		dice-six		envelope-open-text			
compass-o		dice-three		envelopes-bulk			
compress		dice-two		eraser			
computer		disease		ethernet			
computer-mouse		display		expand			
cookie		dna		explosion			
cookie-bite		dog		eye			
copy		dolly		eye-dropper			
copy-o		door-closed		eye-low-vision			
copyright		door-open		eye-o			
copyright-o		dove		eye-slash			
couch		down-left-and-up-right-to-center		eye-slash-o			
cow		down-long		face-angry			
credit-card		download		face-angry-o			
credit-card-o		dragon		face-dizzy			
crop		draw-polygon		face-dizzy-o			
crop-simple		droplet		face-flushed			
cross		droplet-slash		face-flushed-o			
crosshairs		drum		face-frown			
crow		drum-steelpan		face-frown-o			
crown		drumstick-bite		face-frown-open			
crutch		dumbbell		face-frown-open-o			
cube		dumpster		face-grimace			
cubes		dumpster-fire		face-grimace-o			
cubes-stacked		dungeon		face-grin			
database		ear-deaf		face-grin-beam			
delete-left		ear-listen		face-grin-beam-o			
democrat		earth-africa		face-grin-beam-sweat			
desktop		earth-americas		face-grin-beam-sweat-o			
dharmachakra		earth-asia		face-grin-hearts			
diagram-next		earth-europe		face-grin-hearts-o			
diagram-predecessor		earth-oceania		face-grin-o			
diagram-project		egg		face-grin-squint			
diagram-successor		eject		face-grin-squint-o			
diamond		elevator		face-grin-squint-tears			
diamond-turn-right		ellipsis		face-grin-squint-tears-o			
dice		ellipsis-vertical		face-grin-stars			
dice-d20		envelope		face-grin-stars-o			
dice-d6		envelope-circle-check		face-grin-tears			
dice-five		envelope-o		face-grin-tears-o			
dice-four		envelope-open					

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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-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

A	*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
H	*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
	highlighter
	hill-avalanche
	hill-rockslide
	hippo
	hockey-puck
	holly-berry
	horse
	horse-head

hospital	
hospital-o	
hospital-user	
hot-tub-person	
hotdog	
hotel	
hourglass	
hourglass-end	
hourglass-half	
hourglass-half-o	
hourglass-o	
hourglass-start	
house	
house-chimney	
house-chimney-crack	
house-chimney-medical	
house-chimney-user	
house-chimney-window	
house-circle-check	
house-circle-exclamation	
house-circle-xmark	
house-crack	
house-fire	
house-flag	
house-flood-water	
house-flood-water-circle-arrow-right	
house-laptop	
house-lock	
house-medical	
house-medical-circle-check	
house-medical-circle-exclamation	
house-medical-circle-xmark	
house-medical-flag	
house-signal	
house-tsunami	
house-user	
hurricane	
i-cursor	
ice-cream	
icicles	
icons	

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id-badge-o	
id-card	
id-card-clip	
id-card-o	
igloo	
image	
image-o	
image-portrait	
images	
images-o	
inbox	
indent	
industry	
infinity	
info	
italic	
jar	
jar-wheat	
jedi	
jet-fighter	
jet-fighter-up	
joint	
jug-detergent	
kaaba	
key	
keyboard	
keyboard-o	
khanda	
kit-medical	
kitchen-set	
kiwi-bird	
land-mine-on	
landmark	
landmark-dome	
landmark-flag	
language	
laptop	
laptop-code	
laptop-file	
laptop-medical	
layer-group	

leaf	
left-long	
left-right	
lemon	
lemon-o	
life-ring	
life-ring-o	
lightbulb	
lightbulb-o	
lines-leaning	
link	
link-slash	
list	
list-check	
list-ol	
list-ul	
location-arrow	
location-crosshairs	
location-dot	
location-pin	
location-pin-lock	
lock	
lock-open	
locust	
lungs	
lungs-virus	
magnet	
magnifying-glass	
magnifying-glass-arrow-right	
magnifying-glass-chart	
magnifying-glass-dollar	
magnifying-glass-location	
magnifying-glass-minus	
magnifying-glass-plus	
map	
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		shuttle-space		square-caret-up
satellite-dish		sign-hanging		square-caret-up-o
scale-balanced		signal		square-check
scale-unbalanced		signature		square-check-o
scale-unbalanced-flip		signs-post		square-envelope
school		sim-card		square-full
school-circle-check		sink		square-full-o
school-circle-exclamation		sitemap		square-h
school-circle-xmark		skull		square-minus
school-flag		skull-crossbones		square-minus-o
school-lock		slash		square-nfi
scissors		sleigh		square-o
screwdriver		sliders		square-parking
screwdriver-wrench		smog		square-pen
scroll		smoking		square-person-confined
scroll-torah		snowflake		square-phone
sd-card		snowflake-o		square-phone-flip
section		snowman		square-plus
seedling		snowplow		square-plus-o
server		soap		square-poll-horizontal
shapes		socks		square-poll-vertical
share		solar-panel		square-root-variable
share-from-square		sort		square-rss
share-from-square-o		sort-down		square-share-nodes
share-nodes		sort-up		square-up-right
sheet-plastic		spa		square-virus
shield		spaghetti-monster-flying		square-xmark
shield-cat		spell-check		staff-snake
shield-dog		spider		stairs
shield-halved		spinner		stamp
shield-heart		splotch		stapler
shield-virus		spoon		star
ship		spray-can		star-and-crescent
shirt		spray-can-sparkles		star-half
shoe-prints		square		star-half-o
shop		square-arrow-up-right		star-half-stroke
shop-lock		square-caret-down		star-half-stroke-o
shop-slash		square-caret-down-o		star-o
shower		square-caret-left		star-of-david
shrimp		square-caret-left-o		star-of-life
shuffle		square-caret-right		stethoscope
		square-caret-right-o		stop

stopwatch	
stopwatch-20	
store	
store-slash	
street-view	
strikethrough	
stroopwafel	
subscript	
suitcase	
suitcase-medical	
suitcase-rolling	
sun	
sun-o	
sun-plant-wilt	
superscript	
swatchbook	
synagogue	
syringe	
table	
table-cells	
table-cells-column-lock	
table-cells-large	
table-cells-row-lock	
table-cells-row-unlock	
table-columns	
table-list	
table-tennis-paddle-ball	
tablet	
tablet-button	
tablet-screen-button	
tablets	
tachograph-digital	
tag	
tags	
tape	
tarp	
tarp-droplet	
taxi	
teeth	
teeth-open	
temperature-arrow-down	
temperature-arrow-up	

temperature-empty	
temperature-full	
temperature-half	
temperature-high	
temperature-low	
temperature-quarter	
temperature-three-quarters	
tent	
tent-arrow-down-to-line	
tent-arrow-left-right	
tent-arrow-turn-left	
tent-arrows-down	
tents	
terminal	
text-height	
text-slash	
text-width	
thermometer	
thumbs-down	
thumbs-down-o	
thumbs-up	
thumbs-up-o	
thumbtack	
thumbtack-slash	
ticket	
ticket-simple	
timeline	
toggle-off	
toggle-on	
toilet	
toilet-paper	
toilet-paper-slash	
toilet-portable	
toilets-portable	
toolbox	
tooth	
torii-gate	
tornado	
tower-broadcast	
tower-cell	
tower-observation	
tractor	

traffic-light	
trailer	
train	
train-subway	
train-tram	
transgender	
trash	
trash-arrow-up	
trash-can	
trash-can-arrow-up	
trash-can-o	
tree	
tree-city	
triangle-exclamation	
trophy	
trowel	
trowel-bricks	
truck	
truck-arrow-right	
truck-droplet	
truck-fast	
truck-field	
truck-field-un	
truck-front	
truck-medical	
truck-monster	
truck-moving	
truck-pickup	
truck-plane	
truck-ramp-box	
tty	
turn-down	
turn-up	
tv	
umbrella	
umbrella-beach	
underline	
universal-access	
unlock	
unlock-keyhole	
up-down	

up-down-left-right		venus		wifi	
up-long		venus-double		wind	
up-right-and-down-left-from-center		venus-mars		window-maximize	
up-right-from-square		vest		window-maximize-o	
upload		vest-patches		window-minimize	
user		vial		window-minimize-o	
user-astronaut		vial-circle-check		window-restore	
user-check		vial-virus		window-restore-o	
user-clock		vials		wine-bottle	
user-doctor		video		wine-glass	
user-gear		video-slash		wine-glass-empty	
user-graduate		vihara		worm	
user-group		virus		wrench	
user-injured		virus-covid		x-ray	
user-large		virus-covid-slash		xmark	
user-large-slash		virus-slash		xmarks-lines	
user-lock		viruses		yin-yang	
user-minus		voicemail			
user-ninja		volcano			
user-nurse		volleyball			
user-o		volume-high			
user-pen		volume-low			
user-plus		volume-off			
user-secret		volume-xmark			
user-shield		vr-cardboard			
user-slash		walkie-talkie			
user-tag		wallet			
user-tie		wand-magic			
user-xmark		wand-magic-sparkles			
users		wand-sparkles			
users-between-lines		warehouse			
users-gear		water			
users-line		water-ladder			
users-rays		wave-square			
users-rectangle		web-awesome			
users-slash		weight-hanging			
users-viewfinder		weight-scale			
utensils		wheat-awn			
van-shuttle		wheat-awn-circle-exclamation			
vault		wheelchair			
vector-square		wheelchair-move			
		whiskey-glass			

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
- 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	
firefox	
firefox-browser	
first-order	
first-order-alt	
firstdraft	
flickr	
flipboard	
flutter	
fly	
font-awesome	
fonticons	
fonticons-fi	
fort-awesome	
fort-awesome-alt	
forumbee	
foursquare	
free-code-camp	
freebsd	
fulcrum	
galactic-republic	

galactic-senate	
get-pocket	
gg	
gg-circle	
git	
git-alt	
github	
github-alt	
gitkraken	
gitlab	
gitter	
glide	
glide-g	
gofore	
golang	
goodreads	
goodreads-g	
google	
google-drive	
google-pay	
google-play	
google-plus	
google-plus-g	
google-scholar	
google-wallet	
gratipay	
grav	
gripfire	
grunt	
guilded	
gulp	
hacker-news	
hackerrank	
hashnode	
hips	
hire-a-helper	
hive	
hooli	
hornbill	
hotjar	
houzz	
html5	

hubspot	
ideal	
imdb	
instagram	
instalod	
intercom	
internet-explorer	
invision	
ioxhost	
itch-io	
itunes	
itunes-note	
java	
jedi-order	
jenkins	
jira	
joget	
joomla	
js	
jsfiddle	
jxl	
kaggle	
keybase	
keycdn	
kickstarter	
kickstarter-k	
korvue	
laravel	
lastfm	
leanpub	
less	
letterboxd	
line	
linkedin	
linkedin-in	
linode	
linux	
lyft	
magento	
mailchimp	
mandalorian	
markdown	

mastodon
maxcdn
mdb
medapps
medium
medrt
meetup
megaport
mendeley
meta
microblog
microsoft
mintbit
mix
mixcloud
mixer
mizuni
modx
monero
napster
neos
nfc-directional
nfc-symbol
nimblr
node
node-js
npm
ns8
nutritionix
octopus-deploy
odnoklassniki
odysee
old-republic
opencart
openid
opensuse
opera
optin-monster
orcid
osi
padlet
page4

pagelines
palfed
patreon
paypal
perbyte
periscope
phabricator
phoenix-framework
phoenix-squadron
php
pied-piper
pied-piper-alt
pied-piper-hat
pied-piper-pp
pinterest
pinterest-p
pix
pixiv
playstation
product-hunt
pushed
python
qq
quinscape
quora
r-project
raspberry-pi
ravelry
react
reacteurope
readme
rebel
red-river
reddit
reddit-alien
redhat
renren
replyd
researchgate
resolving
rev
rocketchat

rockrms
rust
safari
salesforce
sass
schlix
screenpal
scribd
searchengin
sellcast
sellsy
servicestack
shirtsinbulk
shoelace
shopify
shopware
signal-messenger
simplybuilt
sistrix
sith
sitrox
sketch
skyatlas
skype
slack
slideshare
snapchat
soundcloud
sourcetree
space-awesome
speakap
speaker-deck
spotify
square-behance
square-dribbble
square-facebook
square-font-awesome
square-font-awesome-stroke
square-git
square-github
square-gitlab
square-google-plus

square-hacker-news
square-instagram
square-js
square-lastfm
square-letterboxd
square-odnoklassniki
square-pied-piper
square-pinterest
square-reddit
square-snapchat
square-steam
square-threads
square-tumblr
square-twitter
square-upwork
square-viadeo
square-vimeo
square-web-awesome
square-web-awesome-stroke
square-whatsapp
square-x-twitter
square-xing
square-youtube
squarespace
stack-exchange
stack-overflow
stackpath
staylinked
steam
steam-symbol
sticker-mule
strava
stripe
stripe-s
stubber
studiovinari
stumbleupon
stumbleupon-circle
superpowers
supple
suse
swift

symfony
teamspeak
telegram
tencent-weibo
the-red-yeti
themeco
themeisle
think-peaks
threads
tiktok
trade-federation
trello
tumblr
twitch
twitter
typo3
uber
ubuntu
uikit
umbraco
uncharted
uniregistry
unity
unsplash
untappd
ups
upwork
usb
usps
ussunnah
vaadin
viacoin
viadeo
viber
vimeo
vimeo-v
vine
vk
vnv
vuejs
watchman-monitoring
waze

web-awesome
webflow
weebly
weibo
weixin
whatsapp
whmcs
wikipedia-w
windows
wirsindhandwerk
wix
wizards-of-the-coast
wodu
wolf-pack-battalion
wordpress
wordpress-simple
wpbeginner
wpexplorer
wpforms
wpressr
x-twitter
xbox
xing
y-combinator
yahoo
yammer
yandex
yandex-international
yarn
yelp
yoast
youtube
zhihu