

# The fontawesome-free package

## Up-to-date Lua $\LaTeX$ support for Font Awesome

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Version 1.2.0 (2024-12-17); includes version 6.7.2 of Font Awesome

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## 1 Introduction

There are several packages on CTAN that provide access to the free *Font Awesome* icons, but these have become outdated and are missing many icons from newer versions of Font Awesome.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

## 2 Installation

This package is not (yet?) available from CTAN, so it must be installed manually; this is done by copying the contents of the `texmf/` directory to either your `$TEXMFLOCAL` or your `$TEXMFHOME` tree. Installing it in `$TEXMFLOCAL` will make the package available to all users on the system, but may require administrator rights; installing it in `$TEXMFHOME` makes it available just for you. The exact values of `$TEXMFLOCAL` and `$TEXMFHOME` depend on your TeX installation; see your installation's documentation for more information.

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\*URL:  [github.com/drs-p/fontawesome-free](https://github.com/drs-p/fontawesome-free)



If you are using TeX Live, you can find the value of these variables by running

```
kpsewhich -expand-var '$TEXMFLOCAL'
```

and similarly for `$TEXMFHOME`.

### 3 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.

### 4 Copyright

The Font Awesome fonts are Copyright 2024 Fonticons, Inc. (<https://fontawesome.com>) with Reserved Font Name: “Font Awesome”. All other files are Copyright 2024 Marc Penninga.

### 5 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.**







## 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*  
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 *child-combatant*  
 *child-dress*  
 *child-reaching*  
 *children*  
 *church*  
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 *circle-arrow-down*  
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 *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*  
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 *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*  
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 *down-long*  
 *download*  
 *dragon*  
 *draw-polygon*  
 *droplet*  
 *droplet-slash*  
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 *drum-steelpan*  
 *drumstick-bite*  
 *dumbbell*  
 *dumpster*  
 *dumpster-fire*  
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 *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*  
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 *ethernet*  
 *expand*  
 *explosion*  
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 *eye-dropper*  
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 *face-dizzy-o*  
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 *face-flushed-o*  
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 *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*  
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 *face-grin-squint-tears-o*  
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 *face-grin-tongue-o*  
 *face-grin-tongue-squint*  
 *face-grin-tongue-squint-o*  
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 *face-grin-tongue-wink-o*  
 *face-grin-wide*  
 *face-grin-wide-o*  
 *face-grin-wink*  
 *face-grin-wink-o*  
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 *face-kiss-beam-o*  
 *face-kiss-o*  
 *face-kiss-wink-heart*  
 *face-kiss-wink-heart-o*  
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 *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*  
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 *faucet*  
 *faucet-drip*  
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 *feather*  
 *feather-pointed*  
 *ferry*  
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 *file-arrow-up*  
 *file-audio*  
 *file-audio-o*  
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 *file-o*

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 *file-powerpoint-o*  
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 *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>
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	<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>
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	<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*  
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 *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*

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 *money-bill-1-o*  
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 *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*  
 *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*





































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 *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  











































 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-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  








☆ *star-half-stroke*  
 ☆ *star-half-stroke-o*  
 ☆ *star-o*  
 ⚡ *star-of-david*  
 ✖ *star-of-life*  
 🩺 *stethoscope*  
 ■ *stop*  
 ⌚ *stopwatch*  
 ⌚ *stopwatch-20*  
 🏪 *store*  
 🏪 *store-slash*  
 🗺 *street-view*  
 ✖ *strikethrough*  
 🥯 *stroopwafel*  
 X<sub>1</sub> *subscript*  
 🧳 *suitcase*  
 🧳 *suitcase-medical*  
 🧳 *suitcase-rolling*  
 ☀ *sun*  
 ☀ *sun-o*  
 🌱 *sun-plant-wilt*  
 X<sup>1</sup> *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*

	<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  
 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  
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 google-pay  
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 google-wallet  
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 hackerrank  
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 hips  
 hire-a-helper  
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 hooli  
 hornbill  
 hotjar

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 invision  
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 kickstarter-k  
 korvue  
 laravel  
 lastfm  
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 letterboard  
 line  
 linkedin  
 linkedin-in  
 linode  
 linux  
 lyft  
 magento  
 mailchimp



 mandalorian  
 markdown  
 mastodon  
 maxcdn  
 mdb  
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 medium  
 medrt  
 meetup  
 megaport  
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 microblog  
 microsoft  
 mintbit  
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 modx  
 monero  
 napster  
 neos  
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 nfc-symbol  
 nimblr  
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 ns8  
 nutritionix  
 octopus-deploy  
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 odysee  
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 opencart  
 openid  
 opensuse  
 opera  
 optin-monster  
 orcid  
 osi

 padlet  
 page4  
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 periscope  
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 phoenix-squadron  
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 pied-piper-hat  
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 reacteurope  
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 redhat  
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 replyd  
 researchgate  
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 rockrms  
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 schlix  
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 scribd  
 searchengin  
 sellcast  
 sellsy  
 servicestack  
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 sitrox  
 sketch  
 skyatlas  
 skype  
 slack  
 slideshare  
 snapchat  
 soundcloud  
 sourcetree  
 space-awesome  
 speakap  
 speaker-deck  
 spotify  
 square-behance  
 square-bluesky  
 square-dribbble  
 square-facebook  
 square-font-awesome  
 square-font-awesome-stroke  
 square-git

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	<i>studiovinari</i>
	<i>stumbleupon</i>
	<i>stumbleupon-circle</i>
	<i>superpowers</i>

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	<i>the-red-yeti</i>
	<i>themeco</i>
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	<i>tumblr</i>
	<i>twitch</i>
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	<i>uber</i>
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	<i>vimeo</i>
	<i>vimeo-v</i>
	<i>vine</i>
	<i>vk</i>
	<i>vnu</i>

	<i>vuejs</i>
	<i>watchman-monitoring</i>
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	<i>youtube</i>
	<i>zhihu</i>