

The **iconfonts** package  
Up-to-date Lua $\text{\LaTeX}$  support for  
*Font Awesome Free* and *Academicons*

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Version 1.0.2 (2025-07-23);  
includes Font Awesome Free version 7.0.0 and Academicons version 1.9.4

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## 1 Introduction

There already exist several packages on CTAN that provide access to the *Font Awesome Free* and *Academicons* icon fonts, but these have all become outdated and are missing many icons from newer versions of those fonts. The **iconfonts** package attempts to deal with the update problem by building the  $\text{\LaTeX}$  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 $\text{\LaTeX}$ .

## 2 Installation

This package is not (yet?) available from CTAN, and hence also not included in  $\text{\TeX}$  Live and other  $\text{\TeX}$  distributions. It must therefore be installed manually; this is done by copying the

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

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 only for your user. The precise values of `$TEXMFLOCAL` and `$TEXMFHOME` depend on your `TeX` installation; see your installation’s documentation for more information.

If you are using `TeX Live` (or another `TeX` distribution that uses the `kpathsea` library), you can find the value of these variables by running

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

and similarly for `$TEXMFHOME`.

### 3 Usage

The `iconfonts` package contains all icons from the Academicons and Font Awesome Free fonts.

`\fontawesome` The package provides two commands to access those icons: `\fontawesome` and `\academicons`.  
`\academicons` Each of these has a single, mandatory argument: the `<name>` of the icon.

Some Font Awesome icons have light or open variants, such as ☺ and ☺. Those variants are accessed by adding `-o` to the icon name: `\fontawesome{face-smile-o}` instead of `\fontawesome{face-smile}`. A list of all icons and their names is included in the appendices.

`\fontawesome*` The icons have varying widths. Both commands have starred variants, `\fontawesome*` and  
`\academicons*` `\academicons*`, that produce fixed-width icons (by centering them in a 1.25em wide box).

### 4 Copyright

- The Font Awesome fonts are Copyright 2025 Fonticons, Inc. (<https://fontawesome.com>), with Reserved Font Name “Font Awesome”.
- The Academicons font is Copyright 2023 James Walsh, Katja Bercic (<https://jpswalsh.github.io/academicons>), with Reserved Font Name “Academicons”.
- All other files are Copyright 2025 Marc Penninga.




















































### 5 License




















































Both the Font Awesome fonts and the Academicons font 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.**

















































## A List of Font Awesome icons

	address-book		arrow-up-short-wide		blender-phone
	address-book-o		arrow-up-wide-short		blog
	address-card		arrow-up-z-a		bold
	address-card-o		arrows-down-to-line		bolt
	alarm-clock		arrows-down-to-people		bolt-lightning
	alarm-clock-o		arrows-left-right		bomb
	align-center		arrows-left-right-to-line		bone
	align-justify		arrows-rotate		bong
	align-left		arrows-spin		book
	align-right		arrows-split-up-and-left		book-atlas
	anchor		arrows-to-circle		book-bible
	anchor-circle-check		arrows-to-dot		book-bookmark
	anchor-circle-exclamation		arrows-to-eye		book-journal-whills
	anchor-circle-xmark		arrows-turn-right		book-medical
	anchor-lock		arrows-turn-to-dots		book-open
	angle-down		arrows-up-down		book-open-reader
	angle-left		arrows-up-down-left-right		book-quran
	angle-right		arrows-up-to-line		book-skull
	angle-up		atom		book-tanakh
	angles-down		audio-description		bookmark
	angles-left		award		bookmark-o
	angles-right		baby		border-all
	angles-up		baby-carriage		border-none
	ankh		backward		border-top-left
	apple-whole		backward-fast		bore-hole
	archway		backward-step		bottle-droplet
	arrow-down		bacon		bottle-water
	arrow-down-1-9		bacteria		bowl-food
	arrow-down-9-1		bacterium		bowl-rice
	arrow-down-a-z		bag-shopping		bowling-ball
	arrow-down-long		bahai		box
	arrow-down-short-wide		ban		box-archive
	arrow-down-up-across-line		ban-smoking		box-open
	arrow-down-up-lock		bandage		box-tissue
	arrow-down-wide-short		barcode		boxes-packing
	arrow-down-z-a		bars		boxes-stacked
	arrow-left		bars-progress		braille
	arrow-left-long		bars-staggered		brain
	arrow-pointer		baseball		bread-slice
	arrow-right		baseball-bat-ball		bridge
	arrow-right-arrow-left		basket-shopping		bridge-circle-check
	arrow-right-from-bracket		basketball		bridge-circle-exclamation
	arrow-right-long		bath		bridge-circle-xmark
	arrow-right-to-bracket		battery-empty		bridge-lock
	arrow-right-to-city		battery-full		bridge-water
	arrow-rotate-left		battery-half		briefcase
	arrow-rotate-right		battery-quarter		briefcase-medical
	arrow-trend-down		battery-three-quarters		broom
	arrow-trend-up		bed		broom-ball
	arrow-turn-down		bed-pulse		brush
	arrow-turn-up		beer-mug-empty		bucket
	arrow-up		bell		bug
	arrow-up-1-9		bell-concierge		bug-slash
	arrow-up-9-1		bell-o		bugs
	arrow-up-a-z		bell-slash		building
	arrow-up-from-bracket		bell-slash-o		building-circle-arrow-right
	arrow-up-from-ground-water		bezier-curve		building-circle-check
	arrow-up-from-water-pump		bicycle		building-circle-exclamation
	arrow-up-long		binoculars		building-circle-xmark
	arrow-up-right-dots		biohazard		building-columns
	arrow-up-right-from-square		blender		building-flag











































 building-lock  
 building-ngo  
 building-o  
 building-shield  
 building-un  
 building-user  
 building-wheat  
 bullhorn  
 bullseye  
 burger  
 burst  
 bus  
 bus-side  
 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-o  
 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-o  
 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-americas  
 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-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-o  
 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  
 hexagon-nodes  
 hexagon-nodes-bolt  
 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-o  
 house-signal  
 house-tsunami  
 house-user  
 hurricane  
 i-cursor  
 ice-cream  
 icicles  
 icons  
 id-badge  
 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  
 mobile-vibrate  
 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  
 non-binary  
 note-sticky  
 note-sticky-o  
 notes-medical  
 object-group  
 object-group-o  
 object-ungroup  
 object-ungroup-o  
 octagon  
 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  
 pentagon  
 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  
 septagon  
 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  
 single-quote-left  
 single-quote-right  
 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  
 spiral  
 spotlight  
 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  
 star-half-o  
 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  
 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-o  
 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  
 up-long  
 up-right-and-down-left-from-center  
 up-right-from-square  
 upload  
 user  
 user-astronaut  
 user-check  
 user-clock  
 user-doctor  
 user-gear  
 user-graduate  
 user-group  
 user-injured  
 user-lock  
 user-minus  
 user-ninja  
 user-nurse  
 user-o  
 user-pen  
 user-plus  
 user-secret  
 user-shield  
 user-slash  
 user-tag  
 user-tie  
 user-xmark  
 users  
 users-between-lines  
 users-gear  
 users-line  
 users-rays  
 users-rectangle  
 users-slash  
 users-viewfinder  
 utensils  
 van-shuttle  
 vault  
 venus  
 venus-double











































 venus-mars  
 vest  
 vest-patches  
 vial  
 vial-circle-check  
 vial-virus  
 vials  
 video  
 video-slash  
 vihara  
 virus  
 virus-covid  
 virus-covid-slash  
 virus-slash  
 viruses  
 voicemail  
 volcano  
 volleyball  
 volume-high  
 volume-low  
 volume-off  
 volume-xmark  
 vr-cardboard  
 walkie-talkie  
 wallet  
 wand-magic  
 wand-magic-sparkles  
 wand-sparkles  
 warehouse  
 water  
 water-ladder  
 wave-square  
 web-awesome  
 weight-hanging  
 weight-scale  
 wheat-awn  
 wheat-awn-circle-exclamation  
 wheelchair  
 wheelchair-move  
 whiskey-glass  
 wifi  
 wind  
 window-maximize  
 window-maximize-o  
 window-minimize  
 window-minimize-o  
 window-restore  
 window-restore-o  
 wine-bottle  
 wine-glass  
 wine-glass-empty  
 worm  
 wrench  
 x-ray  
 xmark  
 xmarks-lines  
 yin-yang






















## B List of Font Awesome brand icons

	42-group		cc-jcb		draft2digital
	500px		cc-mastercard		dribbble
	accessible-icon		cc-paypal		dropbox
	accusoft		cc-stripe		drupal
	adn		cc-visa		duolingo
	adversal		centercode		dyalog
	affiliatetheme		centos		earlybirds
	airbnb		chrome		ebay
	algolia		chromecast		edge
	alipay		cloudflare		edge-legacy
	amazon		cloudscale		elementor
	amazon-pay		cloudsmith		eleventy
	amilia		cloudversify		ello
	android		cmlid		ember
	angellist		codepen		empire
	angrycreative		codiepie		envira
	angular		confluence		erlang
	app-store		connectdevelop		ethereum
	app-store-ios		contao		etsy
	apper		cotton-bureau		evernote
	apple		cpanel		expeditedssl
	apple-pay		creative-commons		facebook
	artstation		creative-commons-by		facebook-f
	asymmetrik		creative-commons-nc		facebook-messenger
	atlassian		creative-commons-nc-eu		fantasy-flight-games
	audible		creative-commons-nc-jp		fedex
	autoprefixer		creative-commons-nd		fedora
	avianex		creative-commons-pd		figma
	aviato		creative-commons-pd-alt		files-pinwheel
	aws		creative-commons-remix		firefox
	bandcamp		creative-commons-sa		firefox-browser
	battle-net		creative-commons-sampling		first-order
	behance		creative-commons-sampling-plus		first-order-alt
	bilibili		creative-commons-share		firstdraft
	bimobject		creative-commons-zero		flickr
	bitbucket		critical-role		flipboard
	bitcoin		css		flutter
	bity		css3		fly
	black-tie		css3-alt		font-awesome
	blackberry		cuttlefish		fonticons
	blogger		d-and-d		fonticons-fi
	blogger-b		d-and-d-beyond		fort-awesome
	bluesky		dailymotion		fort-awesome-alt
	bluetooth		dart-lang		forumbee
	bluetooth-b		dashcube		foursquare
	bootstrap		debian		free-code-camp
	bots		deezer		freebsd
	brave		delicious		fulcrum
	brave-reverse		deploydog		galactic-republic
	btc		deskpro		galactic-senate
	buffer		dev		get-pocket
	buromobelexperte		deviantart		gg
	buy-n-large		dhl		gg-circle
	buysellads		diaspora		git
	canadian-maple-leaf		digg		git-alt
	cash-app		digital-ocean		github
	cc-amazon-pay		discord		github-alt
	cc-amex		discourse		gitkraken
	cc-apple-pay		disqus		gitlab
	cc-diners-club		dochub		gitter
	cc-discover		docker		glide

 glide-g  
 gofore  
 golang  
 goodreads  
 goodreads-g  
 google  
 google-drive  
 G 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  
 kakao-talk  
 keybase  
 keycdn  
 kickstarter  
 kickstarter-k  
 korvue  
 laravel  
 lastfm  
 leanpub  
 less  
 letterboxd

 line  
 linkedin  
 linkedin-in  
 linktree  
 linode  
 linux  
 lumon  
 lumon-drop  
 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  
 notion  
 npm  
 ns8  
 nutritionix  
 octopus-deploy  
 odnoklassniki  
 odysee  
 old-republic  
 openai  
 opencart  
 openid  
 opensuse  
 opera  
 optin-monster  
 orcid  
 osi  
 padlet  
 page4  
 pagelines  
 palfed  
 pandora  
 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  
 pixelfed  
 pixiv  
 playstation  
 product-hunt  
 pushed  
 python  
 qq  
 quinscape  
 quora  
 r-project  
 raspberrypi  
 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  
 sistris  
 sith  
 sitrox  
 sketch  
 skyatlas  
 skype  
 slack

	slideshare
	snapchat
	soundcloud
	sourcetree
	space-awesome
	speakap
	speaker-deck
	spotify
	square-behance
	square-bluesky
	square-dribbble
	square-facebook
	square-figma
	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-linkedin
	square-odnoklassniki
	square-pied-piper
	square-pinterest
	square-reddit
	square-snapchat
	square-steam
	square-threads
	square-tumblr
	square-twitter
	square-upwork
	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
	tex
	the-red-yeti
	themeco
	themeisle
	think-peaks
	threads
	tidal
	tiktok
	trade-federation
	trello
	tumblr
	twitich
	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
	vnnv
	vsco
	vuejs
	w3c
	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

## C List of Academicons icons

	academia		google-scholar		osf-square
	academia-square		google-scholar-square		overleaf
	acclaim		hal		overleaf-square
	acclaim-square		hal-square		philpapers-square
	acm		hypothesis		phipapers
	acm-square		hypothesis-square		piazza
	acmdl		ideas-repec		piazza-square
	acmdl-square		ideas-repec-square		preregistered
	ads		ieee		preregistered-square
	ads-square		ieee-square		protocols
	africarxiv		impactstory		protocols-square
	africarxiv-square		impactstory-square		psyarxiv
	archive		inaturalist		psyarxiv-square
	archive-square		inaturalist-square		publons
	arxiv		inpn		publons-square
	arxiv-square		inpn-square		pubmed
	biorxiv-square		inspire		pubmed-square
	ceur		inspire-square		pubpeer
	ceur-square		isidore		pubpeer-square
	cienca-vitae		isidore-square		researcherid
	cienca-vitae-square		isni		researcherid-square
	clarivate		isni-square		researchgate
	clarivate-square		jstor		researchgate-square
	closed-access		jstor-square		ror
	closed-access-square		lattes		ror-square
	conversation		lattes-square		sci-hub
	conversation-square		mathoverflow		sci-hub-square
	coursera		mathoverflow-square		scirate
	coursera-square		mendeley		scirate-square
	crossref		mendeley-square		scopus
	crossref-square		moodle		scopus-square
	cv		moodle-square		semantic-scholar
	cv-square		mtmt		semantic-scholar-square
	datacite		mtmt-square		springer
	datacite-square		nakala		springer-square
	dataverse		nakala-square		ssrn
	dataverse-square		obp		ssrn-square
	dblp		obp-square		stackoverflow
	dblp-square		open-access		stackoverflow-square
	depsy		open-access-square		uniE9A2
	depsy-square		open-data		viaf
	doi		open-data-square		viaf-square
	doi-square		open-materials		wiley
	dryad		open-materials-square		wiley-square
	dryad-square		openedition		zenodo
	elsevier		openedition-square		zenodo-square
	elsevier-square		orcid		zotero
	figshare		orcid-square		zotero-square
	figshare-square		osf		