nvm Node version manager

START HERE

`nvm` **`install --lts`**
Install latest LTS

`nvm` **`use`**
Follow .nvmrc

`nvm` **`ls`**
List installed versions

`nvm` **`uninstall`** *`<version>`*
Remove a version

`nvm` **`use`** *`<version>`*
Switch this shell

`nvm` **`alias default`** *`<version>`*
Pick the default

`nvm` **`current`**
Show active version

`nvm` **`ls-remote --lts`**
List LTS releases

.nvmrc version in project → `nvm use` → **nvm** shell function → `sets PATH` → **~/.nvm/versions** installed Node → `first on PATH` → **node, npm** this shell only

CONCEPTS

nvm is a shell function, not a program: it only exists in shells that source nvm.sh, and it changes PATH of that shell only.

Global npm packages belong to one Node version; a new version starts without them.

INSTALL NVM

`curl -o- https://raw.githubusercontent.com/nvm-sh/nvm/v0.40.8/install.sh | bash`
Install nvm with curl

`wget -qO- https://raw.githubusercontent.com/nvm-sh/nvm/v0.40.8/install.sh | bash`
Install nvm with wget

`nvm` **`--version`**
Show the nvm version

`command -v nvm`
Check that nvm is loaded
Prints nvm when the function exists; empty output means the shell never sourced nvm.sh.

`source ~/.bashrc`
Reload the shell profile after install
Use ~/.zshrc for zsh. Or just open a new terminal.

INSTALL AND USE

`nvm` **`install`** *`<version>`*
Install a Node version

`nvm` **`install --lts`**
Install the newest LTS

`nvm` **`install node`**
Install the latest release

`nvm` **`install`**
Install the version from .nvmrc

`nvm` **`use`** *`<version>`*
Use a version in this shell

`nvm` **`use --lts`**
Use the newest LTS

`nvm` **`use node`**
Use the latest release

`nvm` **`use system`**
Use the system-installed Node

`nvm` **`use default`**
Return to the default version

`nvm` **`use`**
Use the version from .nvmrc

`nvm` **`install --lts=`***`<name>`*
Install a named LTS line

`nvm` **`install`** *`<version>`* **`--latest-npm`**
Upgrade npm to the newest it supports

`nvm` **`install`** *`<version>`* **`--reinstall-packages-from=`***`<old>`*
Install and copy global packages

INSPECT VERSIONS

`nvm` **`ls`**
List installed versions

`nvm` **`ls-remote`**
List all installable versions

`nvm` **`ls-remote --lts`**
List LTS versions only

`nvm` **`current`**
Show the active version

`nvm` **`which`** *`<version>`*
Print the path of that node binary

`nvm` **`which current`**
Print the path of the active node

`nvm` **`version-remote --lts`**
Show the newest LTS version number

`nvm` **`version`** *`<version>`*
Resolve a name to an installed version

`nvm` **`uninstall`** *`<version>`*
Remove an installed version

ALIASES AND DEFAULTS

`nvm` **`alias default`** *`<version>`*
Set the version new shells start with

`nvm` **`alias default node`**
Default to whatever is latest

`nvm` **`alias default lts/*`**
Default to the newest LTS

ALIASES AND DEFAULTS (cont.)

`nvm` **`alias`** *`<name>`* *`<version>`*
Create your own alias

`nvm` **`alias`**
List all aliases

`nvm` **`unalias`** *`<name>`*
Delete an alias

RUN WITHOUT SWITCHING

`nvm` **`run`** *`<version>`* *`<script.js>`*
Run node under that version

`nvm` **`exec`** *`<version>`* *`<command>`*
Run any command under that version

`nvm` **`run --lts`** *`<script.js>`*
Run node under the newest LTS

`nvm` **`exec --lts npm test`**
Run npm under the newest LTS

nvm run and exec fall back to the active Node when no .nvmrc is found; always pass a version in scripts.

.NVMRC AND PACKAGES

`echo "lts/*" > .nvmrc`
Pin the project to the newest LTS

.NVMRC AND PACKAGES (cont.)

`node -v > .nvmrc`
Pin the project to the running version

`nvm` **`install && nvm use`**
Install then use the pinned version

`nvm` **`reinstall-packages`** *`<version>`*
Copy that version's global packages here
Installs into the active version; it does not touch npm itself.

.nvmrc contents

Value	Meaning
`20`	Any installed or installable 20.x
`20.11.1`	That exact release
`lts/*`	Newest LTS
`lts/iron`	A named LTS line
`node`	Latest release

nvm looks for .nvmrc upward through parent directories and exits with status 127 if it finds none. Lines starting with # are comments.

SHELL INTEGRATION

`export NVM_DIR="$HOME/.nvm"`
Where nvm lives

`[ -s "$NVM_DIR/nvm.sh" ] && . "$NVM_DIR/nvm.sh"`
Load nvm in your shell profile

SHELL INTEGRATION (cont.)

`[ -s "$NVM_DIR/nvm.sh" ] && . "$NVM_DIR/nvm.sh" --no-use`
Load nvm without activating the default
Skips the default-version setup, which makes shell startup faster. Run nvm use when you need Node.

Auto-switching on cd is a community recipe (a cd wrapper in bash, a chpwd hook in zsh), not a built-in feature.

Slow shell startup is usually nvm.sh being sourced eagerly. Add --no-use, or load it lazily on first use of nvm, node or npm.

TROUBLESHOOTING

nvm: command not found means the shell did not source nvm.sh. Open a new terminal or reload your profile.

RECIPES

Set up a machine

```
curl -o- https://raw.
githubusercontent.com/nvm-sh/
nvm/v0.40.8/install.sh | bash
# open a new terminal, then
nvm install --lts
nvm alias default lts/*
node -v
```