SDKMAN! JVM SDK manager

CONCEPTS

`source ~/.sdkman/bin/sdkman-init.sh`
Load sdk into the current shell

SDKMAN! keeps parallel versions of JVM SDKs, called candidates (java, maven, gradle, kotlin, ...). sdk is a shell function loaded by sdkman-init.sh.

Candidate java, maven, ...
↓ `install`
Installed version candidates/<c>/<v>
↓ `default`
current link new shells
↓ `use / env`
This shell PATH and *_HOME

sdk use affects only this shell; sdk default moves the current symlink that new shells pick up. JAVA_HOME follows the active java.

FIND AND INSTALL

`sdk list`
Browse all candidates

`sdk list <sdk>`
List versions of one candidate

`sdk install <sdk>`
Install the default version

`sdk install <sdk> <version>`
Install a specific version

`sdk install <sdk> <version> <path>`
Register an existing local install

`sdk uninstall <sdk> <version>`
Remove an installed version

`sdk update`
Refresh the candidate list

Markers in sdk list <sdk>

Mark	Meaning
+	Local version
*	Installed
>	In use

SWITCH VERSIONS

`sdk use <sdk> <version>`
Use a version in this shell

SWITCH VERSIONS (cont.)

`sdk default <sdk> <version>`
Set default for new shells

`sdk default <sdk>`
Reset to the SDKMAN default version

`sdk current`
Show versions in use

`sdk current <sdk>`
Show the version of one candidate

`sdk home <sdk> <version>`
Print the install path

`sdk upgrade`
List outdated candidates

`sdk upgrade <sdk>`
Upgrade one candidate

JAVA VENDORS

`sdk list java`
Vendor table with identifiers

`sdk install java <version>-tem`
Install an Eclipse Temurin JDK

Identifier suffixes

Suffix	Distribution
`-tem`	Eclipse Temurin
`-amzn`	Amazon Corretto
`-zulu`	Azul Zulu
`-librca`	BellSoft Liberica
`-graalce`	GraalVM CE
`-graal`	Oracle GraalVM
`-oracle`	Oracle JDK
`-ms`	Microsoft OpenJDK

PROJECT ENV (.SDKMANRC)

`sdk env init`
Create .sdkmanrc with current java

`sdk env`
Switch to versions in .sdkmanrc

`sdk env install`
Install missing versions and switch

`sdk env clear`
Return to default versions

.sdkmanrc

```
# candidate=version, one per line
java=21.0.4-tem
maven=3.9.9
gradle=8.10
```

PROJECT ENV (.SDKMANRC) (cont.)

With sdkman_auto_env=true, cd into a folder with .sdkmanrc runs sdk env; leaving restores defaults.

MAINTENANCE

`sdk version`
Print script and native versions

`sdk help [<subcommand>]`
Show help, or help for one command

`sdk selfupdate`
Update SDKMAN! itself

`sdk selfupdate force`
Reinstall SDKMAN! even if current

`sdk flush`
Clear caches and leftover downloads

Short aliases

Alias	Command
`i / rm`	install / uninstall
`ls / l`	list
`u / d`	use / default
`c / ug`	current / upgrade
`h / e / v`	home / env / version

CONFIGURATION

`sdk config`
Edit ~/.sdkman/etc/config

Everyday keys (sdkman_ prefix)

Key	Effect
`auto_answer`	No prompts (CI)
`auto_env`	Apply .sdkmanrc on cd
`selfupdate_feature`	Prompt for updates
`auto_complete`	Shell completion
`colour_enable`	Coloured output

RECIPES

Set up a new machine

```
curl -s "https://get.sdkman.io" | bash
source "$HOME/.sdkman/bin/sdkman-init.sh"
sdk install java 21.0.4-tem
sdk install maven
sdk install gradle
```

Pin a project

```
sdk use java 21.0.4-tem
sdk env init
echo 'maven=3.9.9' >> .sdkmanrc
git add .sdkmanrc
```