Flutter Cross-platform UI toolkit

CONCEPTS

Press r in a flutter run session to hot reload; state is kept. R restarts and resets state.

Edit Dart code
↓ save / r
Hot reload keeps state
↓ R
Hot restart fresh state
↓ flutter build
Release apk / ipa / web

PROJECT

flutter create *<name>*
Create a new app

flutter create --platforms=android,web .
Create into current dir for chosen platforms

flutter create --template=package *<name>*
Create a Dart package

flutter create --org *<com.example>* *<name>*
Set the reverse-domain org id

flutter clean
Delete build/ and .dart_tool/

RUN AND DEBUG

flutter run
Run the app on the selected device

flutter run -d *<device-id>*
Pick a device

flutter run --release
Run an optimized build

IN A RUN SESSION

r
Hot reload

R
Hot restart

q
Quit and stop the app

h
List all session commands

DEVICES

flutter devices
List connected devices

flutter emulators
List available emulators

flutter emulators --launch *<id>*
Start an emulator

PACKAGES

flutter pub get
Fetch dependencies

flutter pub add *<pkg>*
Add a dependency

flutter pub add dev:*<pkg>*
Add a dev dependency

flutter pub upgrade
Upgrade within constraints

flutter pub outdated
Show packages with newer versions

TEST AND ANALYZE

flutter test
Run all tests in test/

flutter test *<path/to/file_test.dart>*
Run one test file

flutter analyze
Static analysis

BUILD

flutter build apk
Android APK

flutter build appbundle
Android App Bundle for Play

flutter build web
Web build into build/web

SDK AND SETUP

flutter doctor
Check toolchain and platforms

flutter doctor -v
Detailed doctor output

flutter --version
Show SDK, engine, Dart versions

flutter upgrade
Upgrade the SDK