



Chronoverse

Installation Guide

Everything you need to add Chronoverse to a Flutter project on macOS or Windows, verify it, and keep it up to date.

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Developed by Sanket Santosh Vidya Manohar

BSD 3-Clause License · Zero dependencies



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Next step. After installing, continue with the **Chronoverse Integration Guide**, which explains every widget, function and option with code.

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1 About Chronoverse

Chronoverse is an all-in-one calendar and date toolkit for Flutter. A single package gives you month, week, year, schedule, agenda and planner views; single, multiple and range pickers; typed date input; recurrence; time zones; calendar conversions; and more than 80 ready-made date and time functions.

Zero dependencies

Chronoverse depends only on the Flutter SDK. It cannot cause version conflicts with other packages in your project.

No setup

No initialization call, no platform configuration, no permissions and no localization delegates are required.

Every platform

Android, iOS, web, macOS, Windows and Linux, from one code base.

Two entry points

`chronoverse.dart` for widgets and functions; `core.dart` for pure Dart functions without any UI.

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2 Requirements

Item	Minimum	Notes
Flutter SDK	3.24.0	Stable channel recommended.
Dart SDK	3.5.0	Included with Flutter.
Development OS	macOS 12 or Windows 10 (64-bit)	Linux is also supported.
Disk space	about 3 MB	For the package itself.
Internet	Only to download	The package never connects to the network at run time.

Check your installed versions in a terminal:

```
flutter --version  
dart --version
```

If your Flutter SDK is older than 3.24.0, run `flutter upgrade` before continuing.

3 Preparing a macOS machine

Skip this section if Flutter already runs on your Mac (`flutter doctor` shows no errors for the platforms you build for).

- 1 **Download the Flutter SDK** for macOS from the official Flutter website. Choose the build that matches your processor (ARM or x64).
- 2 **Extract it** to a folder without spaces, for example `~/development/flutter`.
- 3 **Add Flutter to your PATH.** Open the Terminal app and run:

```
echo 'export PATH="$HOME/development/flutter/bin:$PATH"' >> ~/.zshrc
source ~/.zshrc
```

- 4 **Install the platform build tools** for the targets you need: the official iOS/macOS developer tools from the Mac App Store for iOS and macOS apps, and the Android SDK for Android apps.
- 5 **Run the doctor** and fix anything it reports:

```
flutter doctor
```

- 6 **Enable desktop and web targets** if you want them:

```
flutter config --enable-macos-desktop
flutter config --enable-web
```

Chronoverse contains no native code, so it needs nothing extra on macOS: no pod files, entitlements or Info.plist keys.

4 Preparing a Windows machine

Skip this section if Flutter already runs on your PC.

- 1 **Download the Flutter SDK** for Windows from the official Flutter website.
- 2 **Extract it** to a folder without spaces or special permissions, for example `C:\src\flutter`. Avoid `C:\Program Files\`.
- 3 **Add Flutter to your PATH.** Open *Start → Edit environment variables for your account*, select `Path`, choose *Edit → New* and add `C:\src\flutter\bin`. Close and reopen any terminal.
- 4 **Turn on Developer Mode** (*Settings → Privacy & security → For developers*). Flutter needs it to create symbolic links when building.
- 5 **Install the platform build tools** for the targets you need: the C++ desktop build tools for Windows apps, and the Android SDK for Android apps.
- 6 **Run the doctor** from a Command Prompt or terminal and fix anything it reports:

```
flutter doctor
```

- 7 **Enable desktop and web targets** if you want them:

```
flutter config --enable-windows-desktop  
flutter config --enable-web
```

Chronoverse uses only Dart and Flutter code, so Windows needs no extra libraries, DLLs or registry settings. File endings are normalised in the package, so it behaves the same whether your editor uses Windows or Unix line endings.

5 Adding Chronoverse to your app

Option A: command line (recommended)

From the root folder of your Flutter project (the folder containing `pubspec.yaml`), run:

```
flutter pub add chronoverse
```

This adds the latest version to `pubspec.yaml` and downloads it. The same command works in the macOS Terminal, the Windows Command Prompt and any editor's built-in terminal.

Option B: edit pubspec.yaml

```
dependencies:  
  flutter:  
    sdk: flutter  
  chronoverse: ^1.0.0
```

Save the file, then run:

```
flutter pub get
```

Import it

```
// Widgets and every function:  
import 'package:chronoverse/chronoverse.dart';  
  
// Pure Dart functions only (servers, command-line tools, isolates):  
import 'package:chronoverse/core.dart';
```

You do not need to add anything to `MaterialApp`. Languages, themes and time zones work out of the box.

6 Verifying the installation

Replace the contents of `lib/main.dart` with this small app:

```
import 'package:chronoverse/chronoverse.dart';
import 'package:flutter/material.dart';

void main() => runApp(const MyApp());

class MyApp extends StatelessWidget {
  const MyApp({super.key});

  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      theme: ThemeData(colorSchemeSeed: Colors.indigo),
      home: Scaffold(
        appBar: AppBar(title: Text('Leap year? ${Chrono.isLeapYear(2028)}')),
        body: ChronoCalendar(
          onDaySelected: (day) => debugPrint(Chrono.format(day, 'EEEE, d MMMM yyyy')),
        ),
      ),
    );
  }
}
```

Run it on any device:

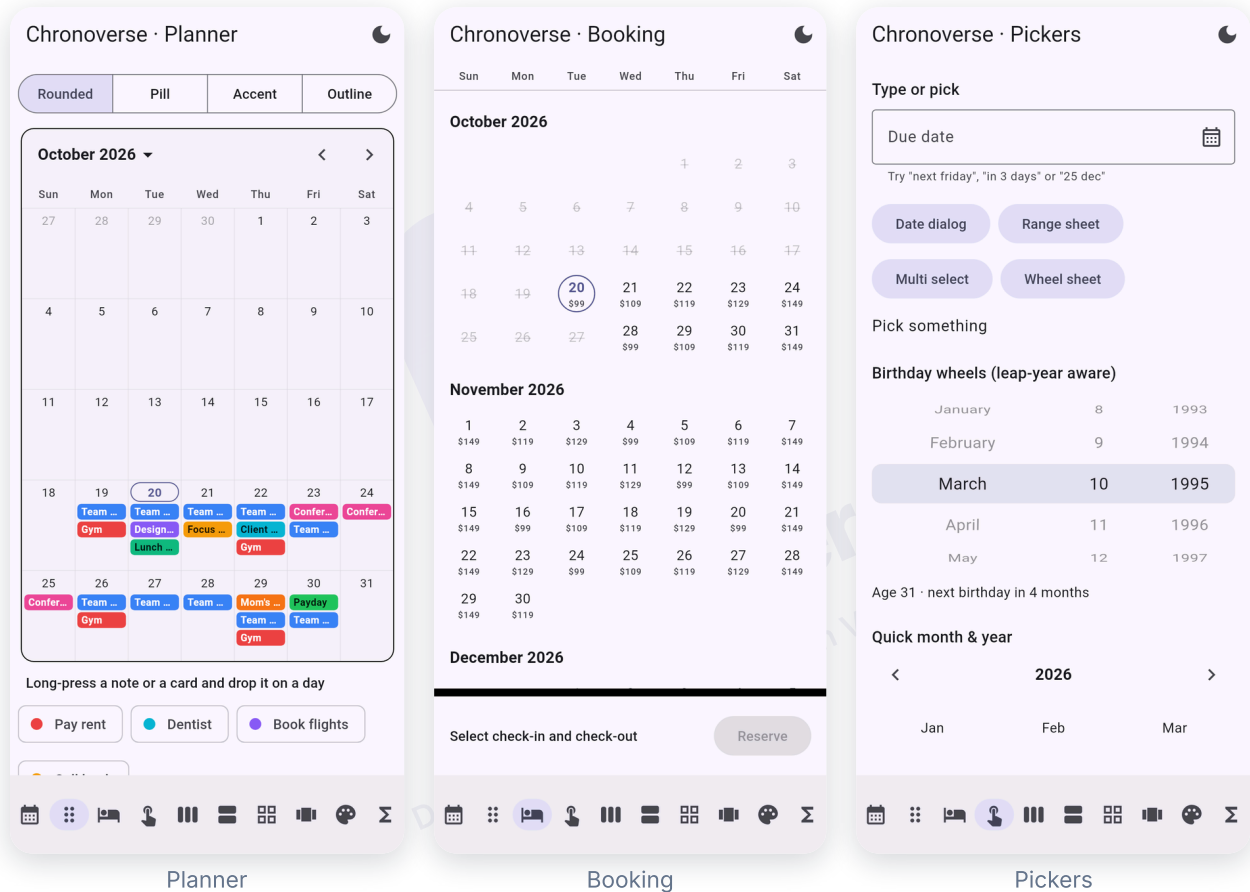
```
flutter run          # pick a device when asked
flutter run -d macos  # on a Mac
flutter run -d windows # on a Windows PC
flutter run -d chrome  # in the browser
```

You should see a month calendar under the title *Leap year? true*. Tap a day and its full date is printed in the console. Swipe left or right to change month, and tap the month title to jump to another year.

7 Running the example gallery

The package source includes a gallery app that demonstrates every widget. Download the source from the project repository, then:

```
cd chronoverse/example
flutter pub get
flutter run
```



On a wide window the gallery shows a side menu; on a phone it shows a bottom bar. Use the moon icon to switch to dark mode.

8 Platform notes

Platform	Extra setup	Notes
Android	None	No permissions are used.
iOS	None	No Info.plist keys are needed.
Web	None	Works with every web renderer.
macOS	None	No entitlements are needed.
Windows	None	Developer Mode is needed by Flutter itself, not by Chronoverse.
Linux	None	
Pure Dart	None	Import <code>core.dart</code> ; it does not import Flutter.

Keyboard, mouse and touch

On desktop and web, the arrow keys move between days, Page Up and Page Down change the page, and you can drag pages with the mouse or swipe with a trackpad. On touch devices all gestures work as expected.

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9 Updating, pinning and removing

Task	Command
See if a newer version exists	<code>flutter pub outdated</code>
Update within your version range	<code>flutter pub upgrade chronoverse</code>
Move to the newest major version	<code>flutter pub upgrade --major-versions chronoverse</code>
Pin an exact version	<code>chronoverse: 1.0.0</code> in pubspec.yaml
Remove the package	<code>flutter pub remove chronoverse</code>

Before updating, read the changelog on the package page. Major versions may contain breaking changes. Always re-test your app, and re-verify any date calculations it depends on.

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10 Troubleshooting

Problem	Solution
<code>flutter</code> is not recognised	Flutter's <code>bin</code> folder is not on your PATH. Repeat step 3 (macOS) or step 3 (Windows), then open a new terminal.
"The current Dart SDK version is ..." / version solving failed	Your SDK is older than required. Run <code>flutter upgrade</code> .
"Target of URI doesn't exist: package:chronoverse/..."	Run <code>flutter pub get</code> and restart your editor's analysis server.
Windows build fails with a symlink error	Turn on Developer Mode (section 4, step 4).
Calendar shows English though the app is in another language	Pass <code>locale: ChronoLocale.of('fr')</code> , or set the app's <code>locale</code> ; Chronoverse follows it automatically.
Calendar overflows inside a Column	The month view has a natural height. Put it inside a scroll view, or use <code>sixWeekMonths: true</code> for a fixed height.
Times look shifted by one hour	Check daylight saving and the time zone of the data. Use <code>ChronoTimeZone</code> to convert explicitly.
Hot reload does not pick up a theme change	Do a hot restart; theme extensions are read when the app starts.

If a problem remains, open an issue on the project repository with your Flutter version (`flutter --version`), platform and a small code sample.

11 Disclaimer

Last updated: 20 October 2026

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