



MINI GUIDE

DEVELOP ONCE, DEPLOY MANY

THEOPLAYER REACT NATIVE SDK

WWW.THEOPLAYER.COM

REACT NATIVE

WHAT?

React Native is an open-source UI software framework developed by Meta Platforms, Inc (formerly known as Facebook). Its initial focus was to build mobile apps on iOS and Android but today its use has expanded, as it's also used to build Windows apps and TV apps.

Developers use this framework to “**learn once, write everywhere**” as it's possible to share code across platforms to create native, cross-platform, desktop, and web applications. This enables companies to accelerate the building of quality products, expand them and maintain them while saving costs.

THE MARKET

React Native is the most common JavaScript tool for front-end development, adopted by hundreds of businesses worldwide. As it is open-source, anyone can contribute to the codebase, and each contributor is essentially writing code to power thousands of leading companies worldwide, including Bloomberg, Discord, Instagram, Shopify, CBS Sports, and many more.

React Native is well-known for helping teams to build complex apps, providing a **seamless cross-platform user experience** thanks to its advanced features and the ability to map to the native components. It is estimated that **42% of developers prefer using React Native**. Flutter, another programming language for cross-platform app development, is a tool of choice by another 42%. The remaining 16% uses technologies like Cordova or Ionic.

React Native usage



Figure1: React Native usage worldwide (Source: Google trends, 2022).

VIDEO PLAYERS IN REACT NATIVE

Open-source video player

In general, open-source players are typically used among React Native developers. Bridges for open-source video players for iOS and Android are available and **maintained by a community of developers around the world**. Developers rely on the React Native community to build a video service cross-platform.

Commercial video players

The React Native offering among commercial players historically is not as advanced and complete as the open-source approach. This means that the advantages of commercial players i.e. **improved performance** and **easy integrations** with vendors throughout the ecosystem, such as DRM, ad insertion, and analytics, are more difficult to achieve with React Native. This is why THEO Technologies (“THEO”) has released its THEOplayer React Native SDK, to bring a **premium video player experience** to the React Native development framework.

THEOPLAYER REACT NATIVE SDK

THEO offers an off-the-shelf THEOplayer React Native SDK that allows development teams to bring a premium playback experience, while moving fast, expanding and maintaining their apps through sharing a codebase on **Web, Android, and iOS**, that can easily be integrated into any React Native app.

The Setup

THEOplayer React Native SDK is an **NPM package**, which exposes the **THEOplayerView component** that can be added to your application.

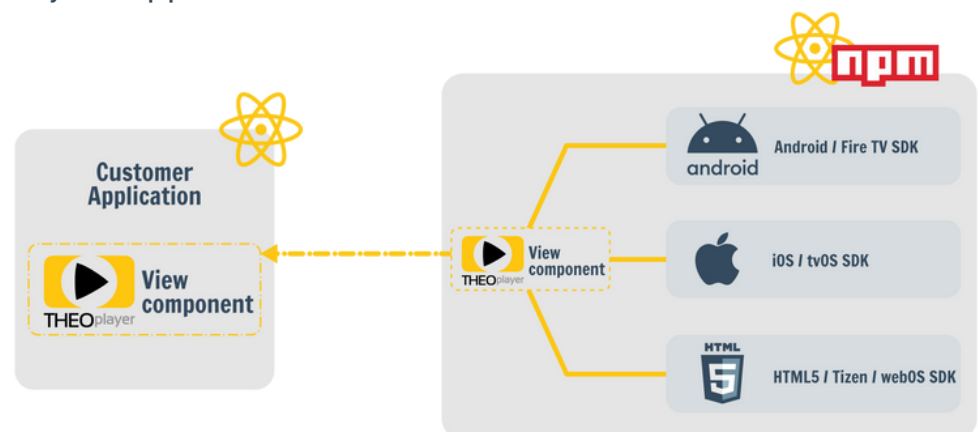


Figure 2: THEOplayer React Native SDK setup.

THEOplayer React Native SDK uses Android/Fire TV, iOS/tvOS, and HTML5/Tizen/webOS SDKs under the hood through bridges that map each THEO SDK API to the view component. This setup empowers you to **use all platform-specific capabilities at the highest performance**.

As the repository is publicly available, you will be able to **customize it and extend it in order to suit your specific use case**.

ADVANTAGES

THEOplayer is the **only commercial video player** to offer a React Native SDK. There are some key advantages to reassure you why the THEOplayer React Native SDK increases productivity:

- 1 **Superior cross-platform performance**, delivering the high Quality of Experience your viewers are looking for.
- 2 Developer-centric, quickly install modules through React Native **NPM package**. This approach makes it easy to maintain, expand and modify your app, improving the overall **developer experience**.
- 3 **Faster development time** allows teams to move fast as it shares the same codebase across apps, without dealing with native code or bridges that are sometimes troublesome.
- 4 Intuitive design provides platform-specific components that can be extended and includes a minimal demo app and examples **facilitating ease of use**.
- 5 **Reduce the cost** of building multiple video services apps, saving a lot of time and money. Leverage the THEO expert team to efficiently guide you through your development phase before going into production



A cross-platform video player allows leading media & entertainment companies to reach a broader audience faster and stay ahead of the competitive market without giving up on **Quality of Experience**.

PLATFORM COVERAGE & FEATURES

THEOplayer React Native SDK targets cross-platform applications on the following platforms:



Powered by THEOplayer

- HTML5/Tizen/webOS SDK
- Android/Fire TV SDK
- iOS/tvOS SDK

The table below covers features that are available for THEOplayer React Native SDK. Features are dependent on the platform, so if you're looking for a specific set of features across platforms, we recommend that you check the React Native SDK documentation.

- Text tracks (TTML, WebVTT, CEA608 / 608 over 708)
- Multi-audio
- DRM protection
- Chromeless & Default SDK UI
- LL-HLS & LL-DASH support
- Airplay
- Chromecast
- Google IMA
- Video track quality selection
- Fullscreen

HOW TO INTEGRATE THEOPLAYER INTO REACT NATIVE APPS?

THEOplayer React Native SDK THEOplayer React Native SDK can be integrated into your React Native project as follows:

1. Access **THEO Developer Portal** and create an account.
2. Create a license of your preferred SDK, and select the React Native **NPM Package** that works on Android, Android TV, iOS, tvOS & web apps.
3. Open **THEOplayer React Native NPM package**, which is a publicly accessible git repository that delivers <THEOplayerView/> component.
4. Explore the repositories, supported by extensive public documentation, including:
 - a. An installation guide and basic usage
 - b. Example of a **minimal demo app** and examples of UI inside the package
5. Integrate the player in your React Native app



Looking for additional support? Our THEOplayer engineers offer **implementation and support expertise** to help your development teams to get up and running with THEOplayer in React Native in no time!

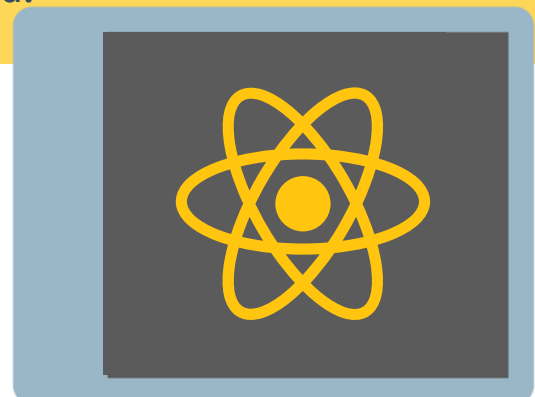
ABOUT THEO TECHNOLOGIES

THEO Technologies empowers the world's leading media and entertainment companies to deliver **cutting-edge video services, efficiently and on any device.**

THEO is continuously striving to disrupt the industry benchmark by becoming the **only commercial video player offering a React Native SDK** for Web, Android, and iOS. Our flagship product - THEOplayer - is trusted by leading payTV and OTT service providers, broadcasters as well as Sports and Event organizers worldwide. Delivering top-notch, feature-rich, interactive, and smooth video playback on every connected device.

LET'S GET IN TOUCH!

If you want to try out our new React Native SDK, **feel free to contact one of our experts to help you get started.**



INTERESTED IN DELIVERING THE BEST-IN-CLASS VIDEO EXPERIENCE?

Get in contact with one of our THEO experts.



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