



**The New American Sign Language
Dictionary, Right on Your Smartphone!**



Access to American Sign Language (ASL) in the digital world has been very limited until now, with few and relatively obscure resources available. To address this, Mocaplab is proud to present a **groundbreaking application that makes ASL accessible to everyone.**

Discover Sign3D, the **first-ever American-ASL dictionary on a smartphone, featuring a 3D avatar** for enhanced interactivity! With over **3,000 verified signs**, this application is designed to become a leading reference in the field. It will enable a wide audience to discover ASL and **enrich their vocabulary**, keeping up with current events or personal interests.

This project was selected as a winner of the "Digitization of Heritage and Architecture" call for proposals, part of the France 2030 investment plan. It is funded by the French government, in coordination with the General Secretariat for Investment and the Ministry of Culture, and is managed on behalf of the state by the Banque des Territoires (Groupe Caisse des Dépôts).

Sign3D will seamlessly accompany its users in their **daily lives.**



Who is it for?



- The general public interested in discovering ASL
- ASL signers looking to expand their vocabulary
- Specialists seeking precise terminology



A 3D Application

Sign3D is the first application to replace traditional videos with an expressive 3D avatar.

Thanks to this 3D technology, users can view signs from every angle and adjust the speed, creating a fun and interactive learning experience.

The 3D approach also allows for a uniform and anonymous library of signs.

More Than Just a Dictionary



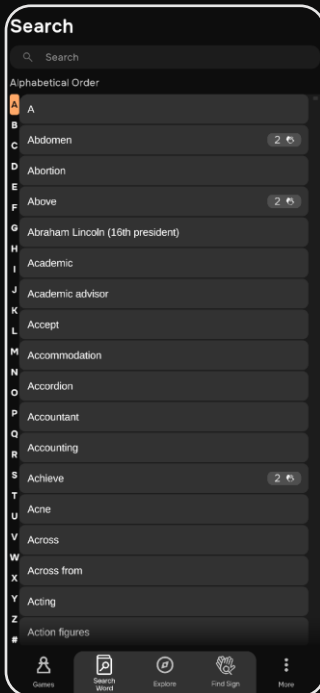
In addition to searching through over 3,000 signs, the app also offers:

- Themed playlists to explore ASL based on personal interests
- Current events playlists for everyday communication
- A mini-game for a fun way to test your knowledge



Key Features

Sign3D offers a complete and intuitive ASL learning experience, with features designed for everyone.



Comprehensive and Verified ASL ↔ English Dictionary:

- **Extensive Library:** Over 3,000 signs, verified by English-ASL translation consultants, covering a wide range of vocabulary from everyday words to proper nouns (countries, cities, people).
- **Thematic Organization:** Signs are organized into themed playlists to make learning easier (daily life, work, school, etc.).
- **Multiple variations** for the same meaning.



3D Avatar: The Heart of Sign3D

- **Unmatched Precision:** See every sign with exceptional clarity, thanks to Mocaplab's cutting-edge motion capture technology.
- **Full Control:** Adjust the animation speed, change the viewing angle, and zoom in on details. You have complete control for optimal observation.
- **Expressiveness:** The avatar faithfully reproduces the facial and body expressions essential for understanding ASL.
- **Transparency Mode:** A unique feature that lets you learn signs from your own point of view. When viewed from behind, the avatar fades to show only the hands, as if they were your own!
- **Left-Handed Mode:** You can mirror the signs!



Personalized and Fun Exploration:



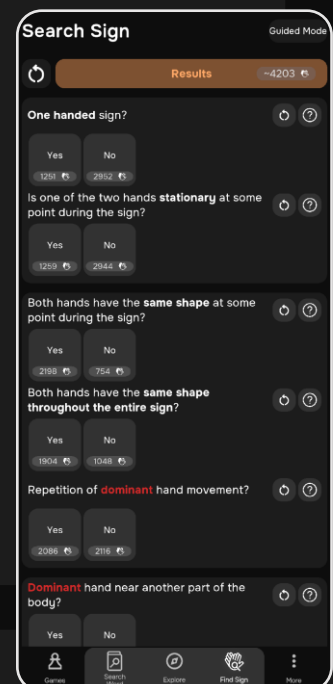
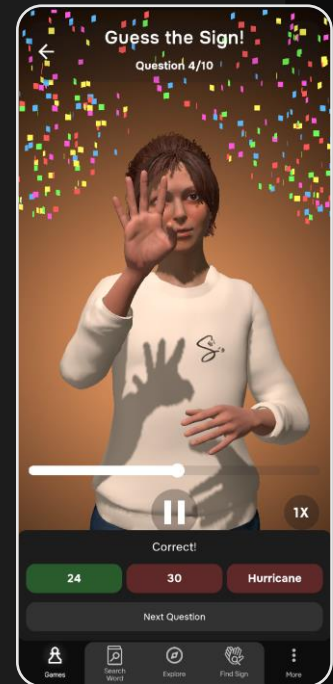
- **Themed Playlists:** Explore selections of signs grouped by themes (animals, seasons, geography, etc.) or by daily situations (the world of work, school, at the doctor's office, etc.) for targeted discovery.

- **Current Events Playlists:** Signs selected based on current news and updated regularly (Summer vacation, celebrity name signs, elections, etc.).

- **Custom Playlists:** Create your own sign lists tailored to your specific needs and interests.

- **Interactive Mini-Game:** Learn and review any playlist in a fun way with a stimulating mini-game built right into the app.

- **Reverse Sign Search:** A unique feature to help you find the English meaning of an ASL sign by describing it. Two modes are available: a "guided mode" with step-by-step questions or a single-page setup with all parameters. This can be used to search all signs in the app or within a specific playlist.



Maximum Accessibility:

- **Offline Mode:** Once downloaded, the app is fully functional without an internet connection. All signs are accessible anytime, anywhere.
- **A Lightweight App:** All of this in under 300 MB.

About ASL



General Context

American Sign Language (ASL) is a **visual, gestural** language used by the Deaf and hard-of-hearing community in the United States. It is recognized as a **complete language**, distinct from spoken English. Contrary to what some might think, ASL is not simply a signed translation of English. It has its **own unique grammar, vocabulary, and syntax**, independent of spoken language.

Sign Languages

An important point to remember is that there is **no single, universal sign language**, but rather a multitude of different sign languages around the world. Each country, and sometimes even each region, has its own sign language, which is often unique and independent of the others. ASL, for example, is different from British Sign Language (BSL), which is itself different from French Sign Language (LSF).

A Brief History

The history of ASL is rich and fascinating. Its origins can be traced to the **18th** century in schools for the deaf in France, and it has developed over time, influenced by other sign languages. French Sign Language (LSF) had a notable influence on other sign languages, especially American Sign Language (ASL). Similarities in grammatical structure can be found across all sign languages. Between ASL and LSF, one can even notice similar signs, which testifies to the historical link between the two languages.

The Specifics of Sign Languages



Generated by IA

Sign languages use a **three-dimensional space** where **hand orientation, shape, movement, and gaze** are crucial. **Facial and body** expressions are also essential, conveying emotions and nuances, and serving a grammatical function that can alter meaning. Furthermore, iconicity is important: many signs visually imitate what they refer to—unlike the often-arbitrary nature of words in spoken languages. Examples include the signs for "tree," "house," and "bicycle".

Conclusion

Learning ASL can be a challenge, but it is also very rewarding. Mastering the language leads to a better understanding of Deaf culture and allows for **communication with Deaf and hard-of-hearing people**. ASL is a unique and **beautiful language** that deserves to be discovered and valued.

About Mocaplab



Sign3D is the result of several years of research at Mocaplab to create a 3D avatar with **precise hand shapes, rich facial expressions, and fluid movement.**

Mocaplab is a studio dedicated to **motion capture** (mocap), from the start of a project to final delivery. Covering the major industries of **film, television, and video games**, Mocaplab is also involved in serious games and live entertainment for shows and events. With a portfolio of over **300 mocap projects**, Mocaplab offers **high-fidelity** performance capture with the highest quality facial, finger, and eye tracking.



Films & Series



Video Games



VR



Apps



Testimonials

“Intuitive and easy-to-use app. The avatar's animations are smooth. The game feature is great, allowing you to learn while having fun. Everything you'd want from a sign language dictionary, right on your phone!” - E. B.

“The Sign3D avatar [...] addresses a major challenge for sign language learners: the mirror effect, since the right hand of the person you're talking to appears on the left from your point of view. [...]”

Mocaplab has always collaborated with deaf actors, with interpreters only present to ensure clear communication. This approach shows a commitment to the authenticity of the signs presented.” - D. F.

“I was able to use the app, and it was so easy and pleasant! My family and I were able to look up vocabulary, and it led to some wonderful, enriching moments.” - R. G.

“I really like the app and have been able to learn some vocabulary with it. I especially like the themed tabs. The animations are very well-made and quite clear. Navigating the app is quite intuitive.” - N. C.

“It's a real advantage to be able to look up a sign either by its French translation or by its articulatory description.” - M. B.



Practical Information

Pricing Model: A paid app with optional in-app purchases for future content additions.

Languages: English

Compatibility: iOS (iOS 12.0+) et Android (Android 8.0+)

App size: Approx. 250 MB



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TERRITOIRES





Download **Sign3D** now and
experience sign language like never
before !