

**54% of the internet
is in English**

Source: [EC English](#)



**But only 1 in 5 people
speak English...?**



Source: [Language Line](#)



Uno Translate

AI Agent for Translation

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There's no product that works the way you want

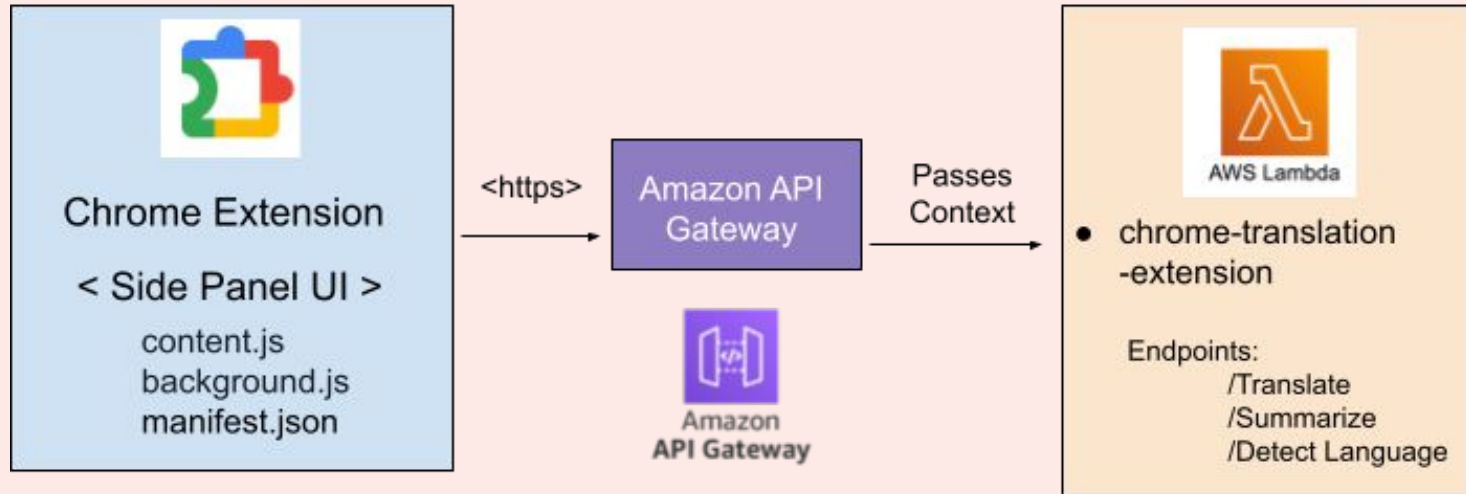


AI





How it works



Tech Stack

</> Frontend

Vanilla JS

HTML5

CSS3

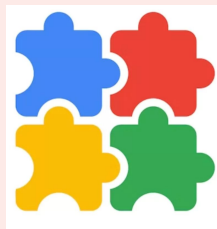


☁ Chrome APIs

Side Panel

activeTab & Storage

Manifest V3

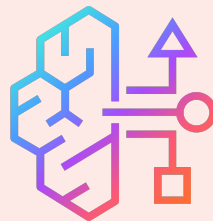


🔗 AI & Backend

AWS Lambda & Bedrock

Nova Lite 1.0

Agentic tool calling



Language is your
identity. Giving voice to
everyone ensures no
one is left behind.





Join us in making language accessible.

Thank you!



The Problem: Context & Nuance



There's no product that just works



Translations miss context,
like "Break a leg!"



Incorrect grammar and word order



Our Solution

-  **Real-time translation overlay**
preserves page layout
-  **AI-generated summaries**
concise bullet points with emojis
-  **Language auto-detect & selection**
over 250 languages
-  **Text-to-Speech & Copy**
tap & listen or copy to clipboard
-  **Grammar & spelling correction**
ensures readability



Uno Translate

Sidepanel UI

Language selection & summary



Content Script

Extract & overlay text



AWS Nova-lite

LLM translation via Lambda



Translation Comparison

Original	Google Translate	LLM (Nova Lite 1.0)
He sat on the <i>bank</i> and watched the sunset.	Se sentó en el banco y miró el atardecer.	Se sentó en la orilla del río y miró el atardecer.
He is <i>cool</i> .	Él es <i>frío</i> .	Él es <i>genial</i> .



Roadmap & Future Work



iOS, Android & Web versions for universal access



Offline mode for remote and low-connectivity



Open-source contributions from a global community



Support for endangered languages & dialects



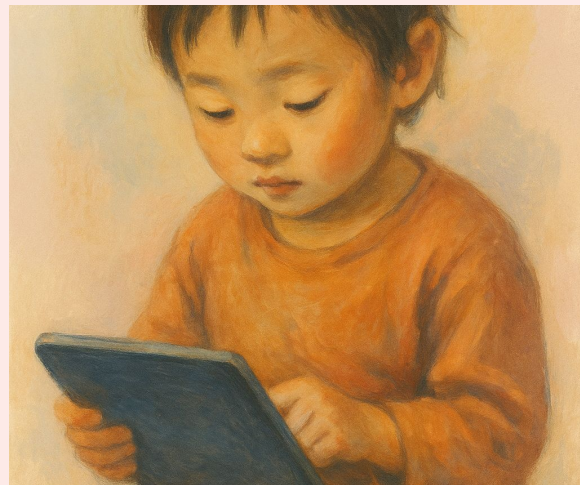
A Future Without Language Barriers



"Language is our identity; giving voice to everyone ensures no one is left behind."



WE GROW COMMUNITY

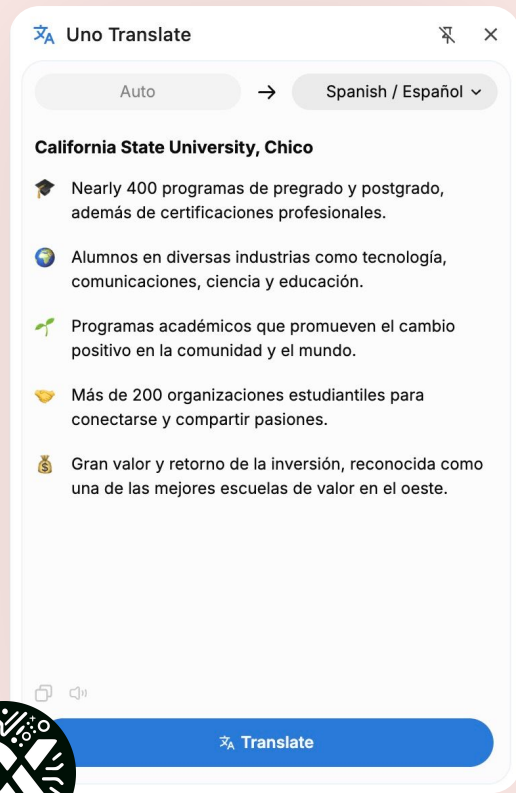


People rely on accurate translation to learn, work and connect.





Demo: Uno Translate in Action



 Choose source & target 250 languages (auto detect)

 AI summary with emoji bullets

 Real-time overlay preserves page layout

 Listen or copy with a single click 

LLM vs Traditional

Traditional (MT)

- ✗ Misses context & nuance; misinterprets ambiguous words
- ✗ Idioms & culture lost; quality varies across languages
- ✗ Grammar errors persist; limited improvement over time

LLM (Nova-lite)

- ✓ Adaptive to context & style; understands idioms
- ✓ Corrects grammar & spelling; high readability
- ✓ Learns & improves continuously; supports low-resource languages



Benefits & Impact

- ✓ Improved accuracy builds trust & civic engagement
- 👥 Serves minority languages & cultural contexts
- 📖 Grammar & spelling corrections ensure readability
- 🎯 Fosters social cohesion & inclusive participation

