

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



Auto



Spanish / Español

California State University, Chico

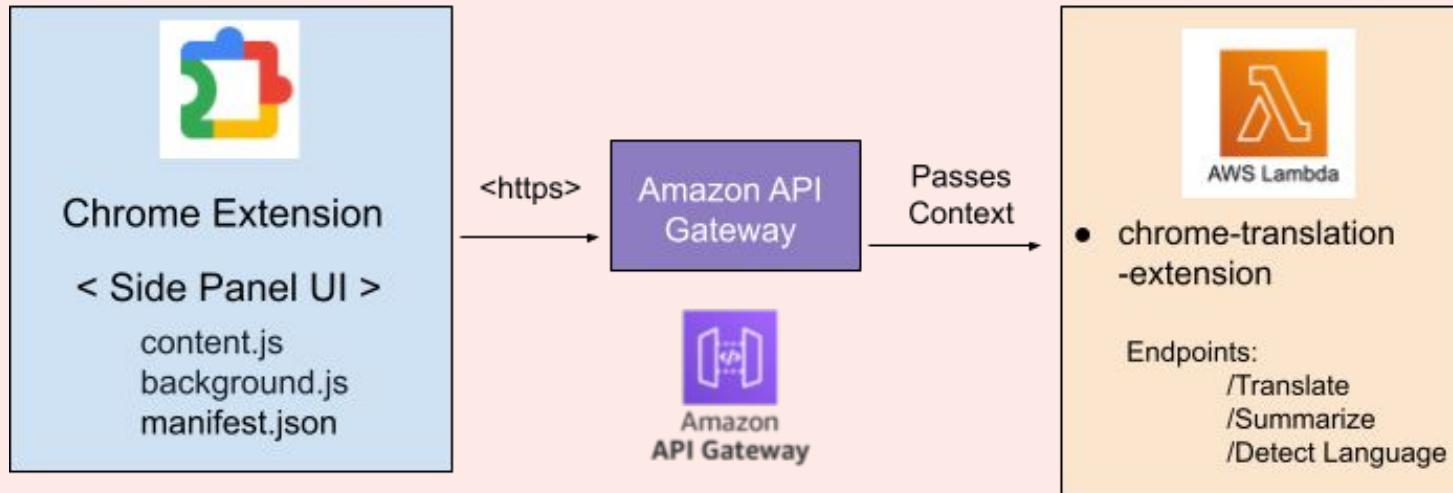
- 🎓 Nearly 400 programas de pregrado y postgrado, además de certificaciones profesionales.
- 🌐 Alumnos en diversas industrias como tecnología, comunicaciones, ciencia y educación.
- 🌱 Programas académicos que promueven el cambio positivo en la comunidad y el mundo.
- 🤝 Más de 200 organizaciones estudiantiles para conectarse y compartir pasiones.
- 💰 Gran valor y retorno de la inversión, reconocida como una de las mejores escuelas de valor en el oeste.



Translate



How it works



Tech Stack

</> Frontend

Vanilla JS

HTML5

CSS3



Chrome APIs

Side Panel

activeTab & Storage

Manifest V3

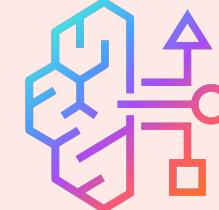


AI & Backend

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



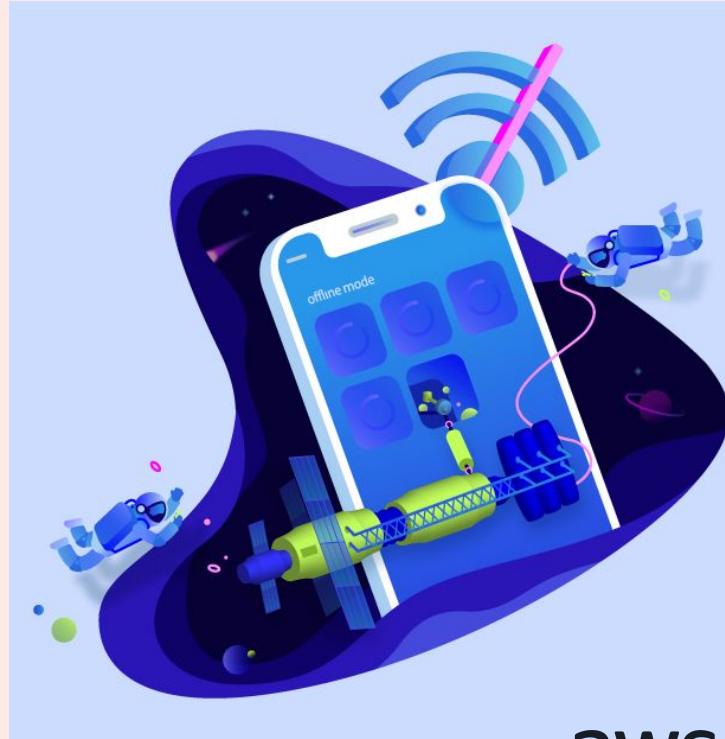
Translation Comparison

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



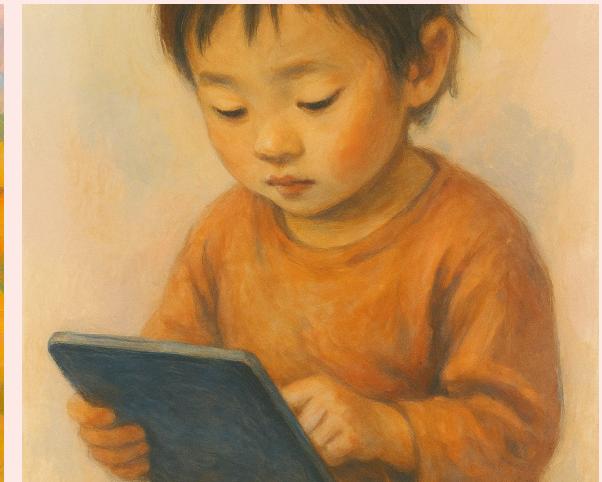
A Future Without Language Barriers



"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.



A central graphic features the words "thank you" in large red letters, surrounded by numerous other "thank you" messages in various languages, each accompanied by its phonetic transcription. The languages include German ("danke"), Chinese ("謝謝"), Swahili ("ngiyabonga"), Turkish ("teşekkür ederim"), Russian ("спасибо"), Polish ("dziękuje"), Portuguese ("obrigado"), and French ("merci"). Other languages like Korean, Indonesian, and Spanish are also represented.

Key text elements include:

- danke 謝謝
- ngiyabonga
- teşekkür ederim
- спасибо
- dziękuje
- obrigado
- merci



aws

Demo: Uno Translate in Action



A 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
- 人群 Serves minority languages & cultural contexts
- AZ Grammar & spelling corrections ensure readability
- 目标 Fosters social cohesion & inclusive participation