

"The original question, 'Can machines think?' I believe to be too meaningless to deserve discussion"

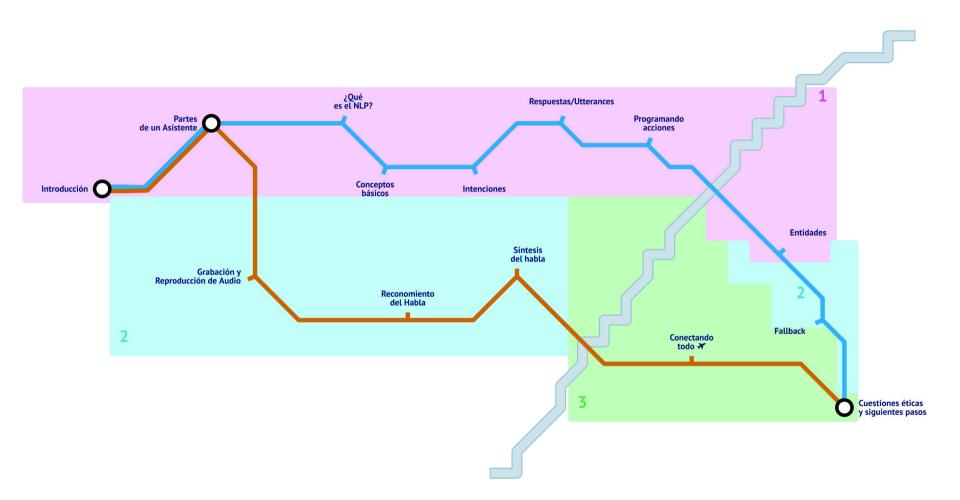
— Alan Turing





Graduado en Ing. Informática. Desarrollador Backend Junior. A veces investigo sobre NLP y Voz.

En general, hago cosas.



Un poco de contexto



Sociedad de la Información y







¿Y qué pasa con el Software Libre en estos sistemas? ¿O el de Código abierto?



Es más, ¿podemos crear nuestro propio asistente?





Una aventura de un año (y pico)





GRADO EN INGENIERÍA INFORMÁTICA TRABAJO FIN DE GRADO

Asistente de voz modular usando APIs libres



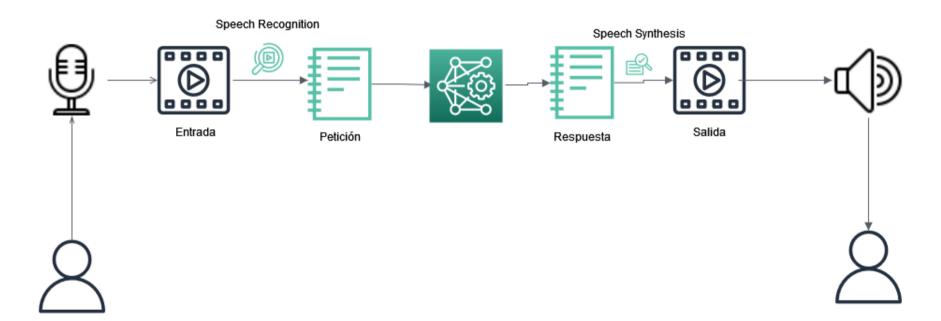
D. Iván Valero Rodríguez

Director: Prof. D. Pablo García Sánchez

¿Y cómo funciona? Conectando partes







Tendremos que hablarle a nuestro ordenador

Tenemos audio, pero el PC no nos entiende.

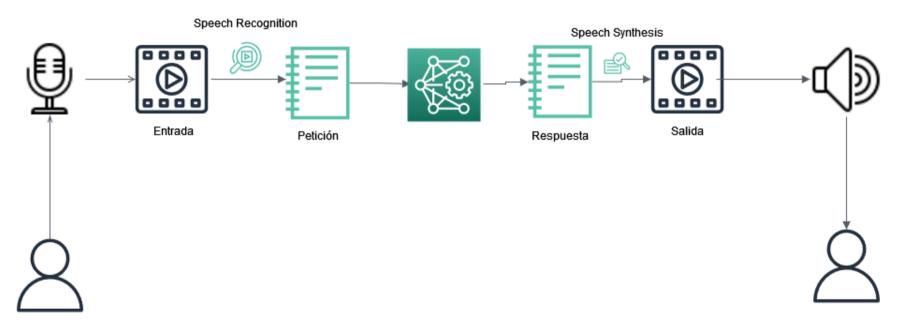
Lanzamos una petición al Chatbot, y a ver si nos contesta

Nos llega la respuesta, pero queremos ahora oírlo.

Escuchar la respuesta.

¡Y repetimos!

Los ingredientes



Los ingredientes



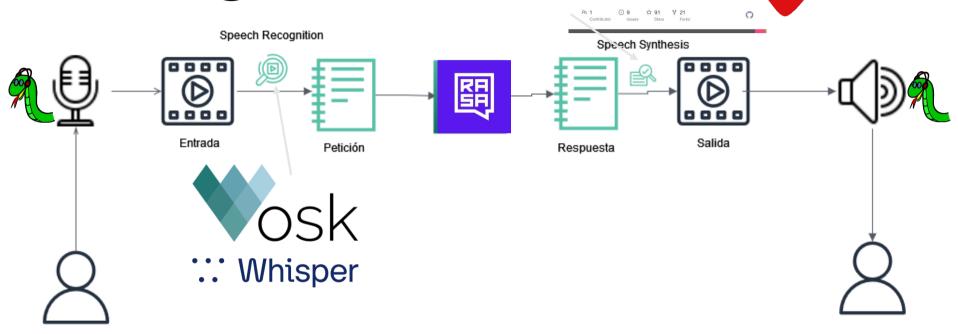








Los ingredientes

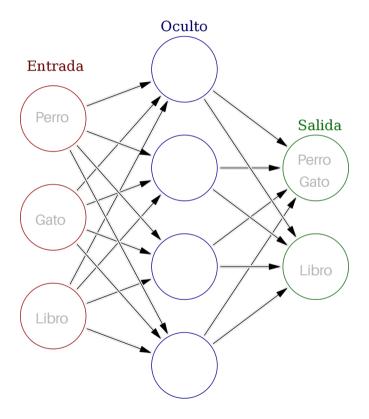


gmn/nanotts
Improved SVOX PicoTTS speech synthesizer

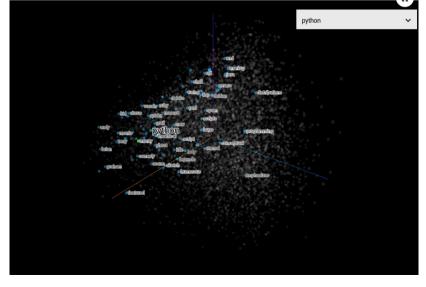
P1

Chatbots y NLU: ¿Cómo chatean las máquinas con nosotr@s?

Chatbots. ¿Cómo funcionan?







Oye, ¿vamos a tapear a la Posada?

Sí, perfecto. Voy a hacer la reserva

Espera, ¿que hay que reservar?

A ver... No es que haga falta, pero nos viene mejor.

¿Cómo funciona?

Intención Entidad

Oye, ¿vamos a tapear a la Posada?

Internamente: Comer(Restaurante:Posada) Sí, perfecto. Voy a hacer la reserva

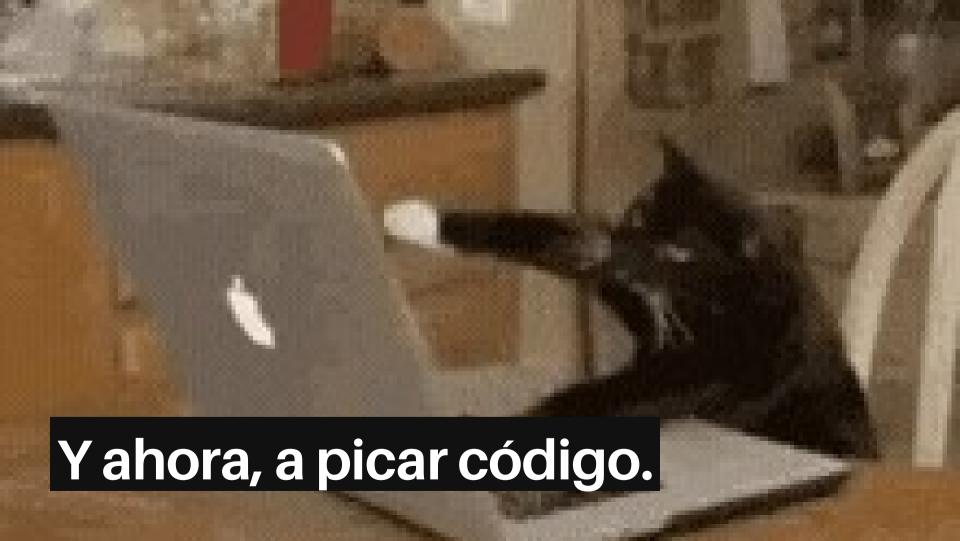
Respuesta

Respuesta

Intención

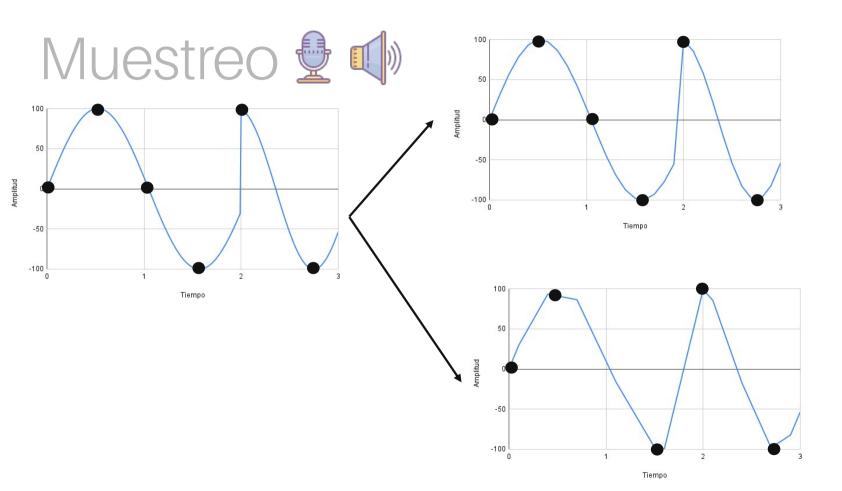
Espera, ¿que hay que reservar?

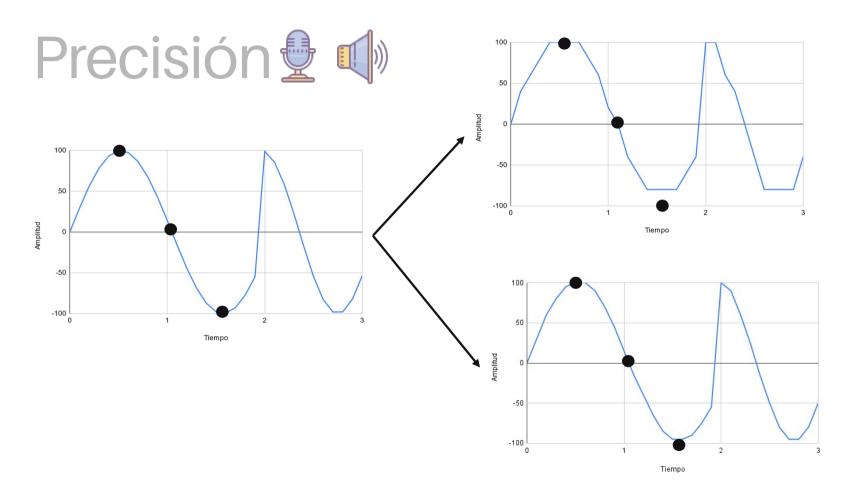
Internamente: Dudas Reservar Obligatorio A ver... No es que haga falta, pero nos viene mejor.

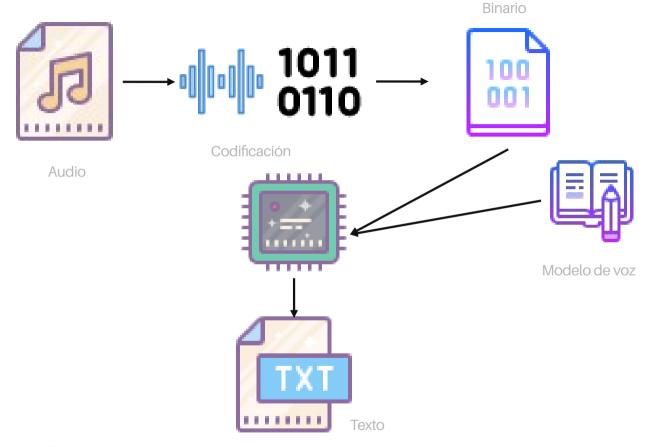


P2

Trabajando con la voz: ¿Ese ordenador me está hablando?







El Speech Recognition





Aprende, dialoga, practica...; Las posibilidades son infinitas!

Y después de esto, ¿qué pasó?



Compartir el conocimiento

(Y después darte cuenta de que solo has visto la punta del iceberg)

Sobre el marco legal y la responsabilidad en la IA

WHAT IS A RAIL LICENSE?

Responsible AI Licenses (RAIL) empower developers to restrict the use of their AI technology in order to prevent irresponsible and harmful applications. These licenses include behavioral-use clauses which grant permissions for specific usecases and/or restrict certain use-cases. In case a license permits derivative works, RAIL Licenses also require that the use of any downstream derivatives (including use, modification, redistribution, repackaging) of the licensed artificial must abide by the behavioral-use restrictions.









BI O

_HOW WILL THE AI ACT DEAL WITH OPEN SOURCE AI SYSTEMS?

ANALYSIS

As the massive Artificial Intelligence Act (IA Act) is slowly making its way through the EU eligibilative processig1, a new set of questions on the interaction between the AA ct and Free, Libre and Open Source Software (FLOSS) development practices has arisen. These questions focus on how were liability, transparency and accountability requirements introduced in the AI Act to regulate the use of high; risk A yetterns may discourage open source development of AI systems, and more specifically, foundational (also referred to as General Purpose models) open source AI models.

This discussion can be traced back to a post by Alex Engler (Brookings) titled "The EUs attempt to regulate open-source AI is counterproductive," which has subsequently been picked up in a number of other outlets and organizations representing the interests of free and open source developers and companies.

December 13, 2022



EU Artificial Intelligence Act: Risk levels



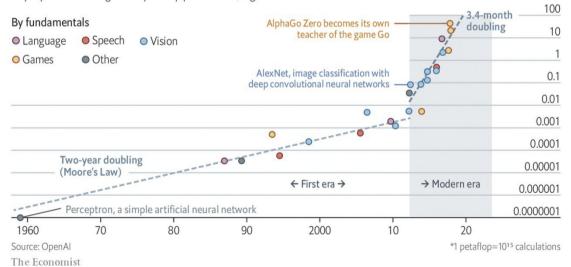
Muchos datos

- = Necesita mucha potencia
- = Contamina demasiado

Deep and steep

Computing power used in training AI systems

Days spent calculating at one petaflop per second*, log scale



+info

Salvemos los pingüinos con el green computing

Plena Guidi - Salvemos los pingüinos con el green computing

Auto Teorido - 15:2/ 34:07

Elena Guidi - Salvemos los pingüinos con el green computing

72 visualizaciones - hace 6 meses

¿No creéis que tomamos a los Asistentes como personas? (Y encima con sesgos) If you survey the major voice assistants on the market—Alexa, Apple's Siri, Microsoft's Cortana, and Google Home's unnamed character—three out of four have female-sounding names by default, and their voices sound female, too. Even before the user addresses Alexa, the robot has already established itself as an obedient female presence, eager to carry out tasks and requests on its user's behalf.

3.3.5. Error Attribution

Furthermore, we used Nass and Moon's (Nass and Moon, 2000) consideration that people can either direct their social reactions to a system directly or to a person behind the system (such as a programmer) to generate three items concerning the attribution of blame when an error occurs. The participants were asked to think of an error that had occurred multiple times, and in what way they would attribute that error to the following parties: themself ("Ihave made an error"), the programmer ("The voice assistant has not been satisfactorily programmed") and the voice assistant ("The voice assistant itself has committed an error"). Participants rated the items on a five-point Likert scale (from 1 = not true at all to 5 = fully true) during the second and third home visit. We calculated mean scores for each item across both sessions for further computations (self: M = 240, SD = 0.70; programmer: M = 3.40, SD = 1.13; voice assistant: M = 2.55, SD = 0.93

3.3.6. Emotions When Errors Occur

Based on the Differential Emotions Scale [DES; Izard et al. (1974)] we extracted emotions that may occur due to a communication breakdown with a VA and set up a scale of nine items: anger, disappointment, sadness, surprise, desperation, interest, motivation, annoyance, and amusement. Participants rated to what extent they experienced the respective emotions when an error occurred on a five-point Likert scale (1 = not at all to 5 = very strongly) both in the second and third home visit. For a factor analysis, mean scores of both sessions were calculated. Factor analysis revealed a two-factor solution, one including anger (M = 1.55, SD = 0.80), sadness (M = 1.45, SD = 0.80), and desperation (M = 1.25, SD = 0.43), and one encompassing the remaining six items. Since the first subscale was more unambiguous in its meaning, we decided to use it for further computations by calculating a mean value for each participant (M = 1.42, SD = 0.56).



Why is Alexa being such a temperamental, touchy

74 replies

Squiff70 · 28/04/2022 21:55

I bought DP an Echo Dot, 4th gen for Christmas.

We set her up as per the instructions and away we went. The mood was quite harmonious for a short time.

Fast forward about six weeks. During a storm we had a brief power cut and Alexa stopped working. We tried everything we could think of and went through the troubleshooting pages on Amazon. Every time we said "Alexa" she would light up blue to indicate that she was listening. We'd give her a command (ie. "add carrots to the shopping list") but she wouldn't talk back to us. She was silent but the command would be followed (ie. carrots were added to the shopping list).

NOAM COHEN IDEAS JUN 6, 2019 7:00 AM

Why Siri and Alexa Weren't Built to Smack Down Harassment

Yes, sexism plays a role. But tech companies keep you glued to your devices by making sure their digital assistants never take offense—even at misogyny and bigotry.

Público, ¿qué habéis aprendido?



Para más información





Nieves Ábalos - Inteligencia Artificial Conversacional ♥ Python https://www.youtube.com/watch?v=kBTVZfM_XzM

Mai Giménez - La era del diamante: sesgos y riesgos en IA https://www.youtube.com/watch?v=ud_S5j_JWrw

Nerea Luis - "Computer says no" https://www.youtube.com/watch?v=aqEqozCcgLQ

Elena Guidi - Salvemos los pingüinos con el green computing https://www.youtube.com/watch?v=FA6VzX36DwU

rtve **play**

Telediario 15h del 16/05/2023 (del 30:05 al 31:55) https://www.rtve.es/play/videos/telediario/15-horas-16-05-23/6891755/







https://github.com/MMdeCastro/Uncertainty_Quantification_XAI https://github.com/RasaHQ/rasa-demo



https://www.wired.com/story/why-siri-and-alexa-werent-built-to-smack-down-harassment/

https://link.springer.com/article/10.1007/s10796-021-10201-0

https://www.researchgate.net/publication/319993266_Alexa_Can_I_Trust_Y

ou

¡Gracias por asistir!

