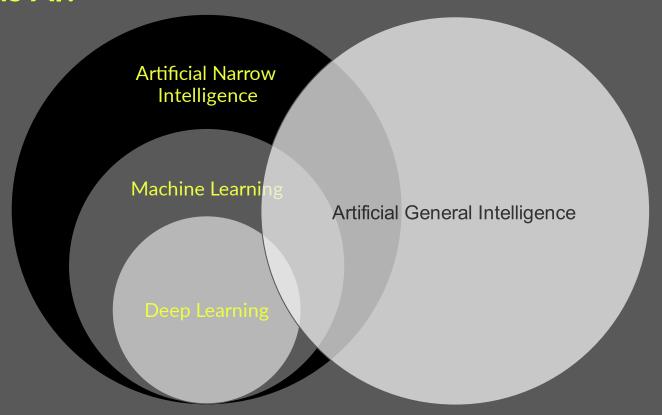
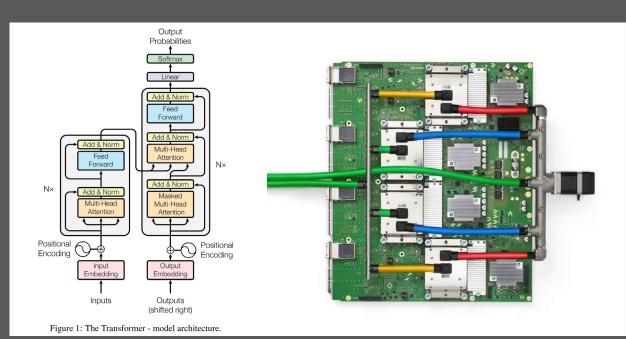
# HR and Al

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## What is AI?

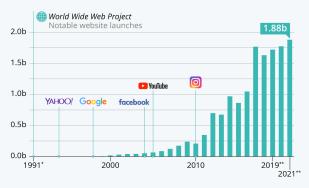


## Why did this "AI" moment happen now?



#### **How Many Websites Are There?**

Number of websites online from 1991 to 2021



- \* As of August 1, 1991.
- \*\* Latest available data for 2019: October 28, for 2020: June 2, for 2021: August 6. Source: Internet Live Stats







What was the first language?

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what was the first language? user: what was the first language?

GPT-2 (2019) ~

What was the first language?

The language of the world was created by a group of people who were looking for something to do and who wanted to communicate with each other. They wanted to communicate with each other, and each other to themselves. They had a long history of communicating with each other, and they thought they could communicate with each other.

### **ChatGPT**

### Trained with two goals:

- 1. Predict a word that likely follows existing words in the prompt.
  - Note: this includes as much chat history as well as uploaded information that can fit into the context window.
  - E.g. "Help me outline my data science course for next semester." What could come next?
  - Trained on as much text as possible (i.e. the internet, including all of the biases that exist)
- 2. Respond in a way that humans prefer.
  - O This involved contracting with likely thousands of human annotators, tasked with looking at responses to prompts and selecting which they'd prefer.
  - O This reinforces ChatGPT to respond in ways we'd like, which is why you can often correct it (even if it's right).

What was the first language?



Determining the "first" language is challenging because language likely evolved gradually over a long period of time rather than being invented at a specific moment. However, the earliest known written language is Sumerian cuneiform, developed by the Sumerians of ancient Mesopotamia around 3200-3100 BCE. This makes Sumerian one of the oldest known written languages. However, spoken languages likely existed long before written records, and the specific origins of spoken languages are difficult to pinpoint due to the lack of direct evidence from ancient times.

Identifying the "first language" ever spoken is incredibly challenging because languages evolve, diverge, and sometimes disappear over thousands of years, leaving little trace. There's no concrete evidence of what the first language was, as spoken languages existed long before writing was invented to record them.

Linguists have hypothesized about a common ancestor for many languages called Proto-Indo-European (PIE), which is believed to have been spoken by a prehistoric people around 6,000 to 8,000 years ago. PIE is not the first language ever spoken, but it's one of the earliest languages we have attempted to reconstruct. It's the theorized ancestor to many modern languages in Europe and

GPT-4.5 (2025) V

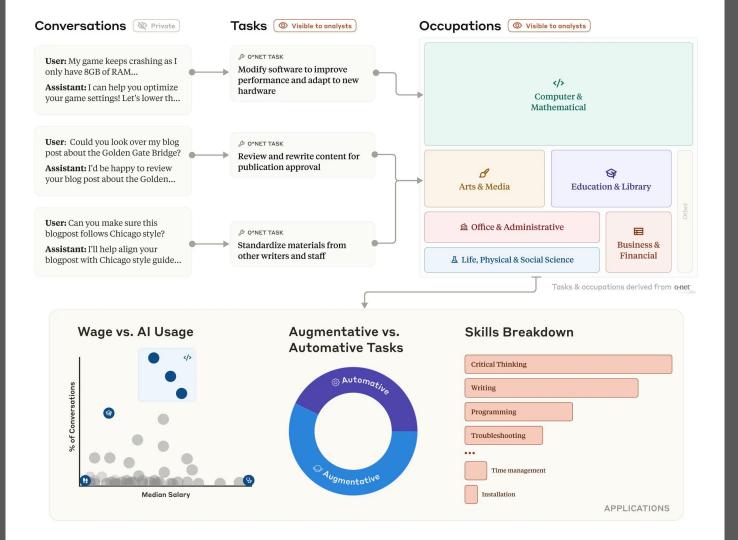
What was the first language?

We don't know exactly what the first language was, and scientists believe we'll probably never know for sure because spoken languages appeared long before written records existed.

Here's what we do know:

- No single "first language": Languages likely developed gradually in different groups of humans around the same time, tens or even hundreds of thousands of years ago.
- Origin in Africa: Most scientists agree that spoken language probably first emerged among humans in Africa, perhaps over 100,000 years ago.
- Proto-languages: Rather than a single language, humans

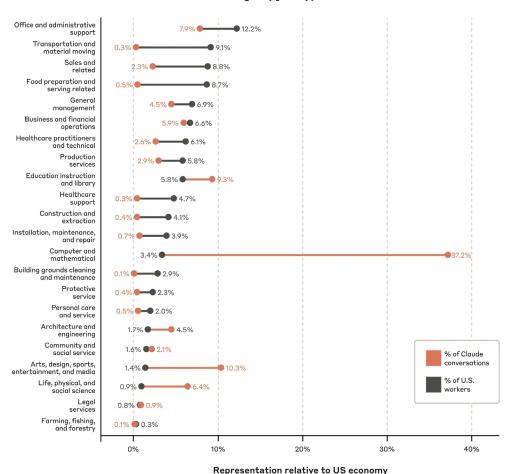
## Impact on Labor Markets

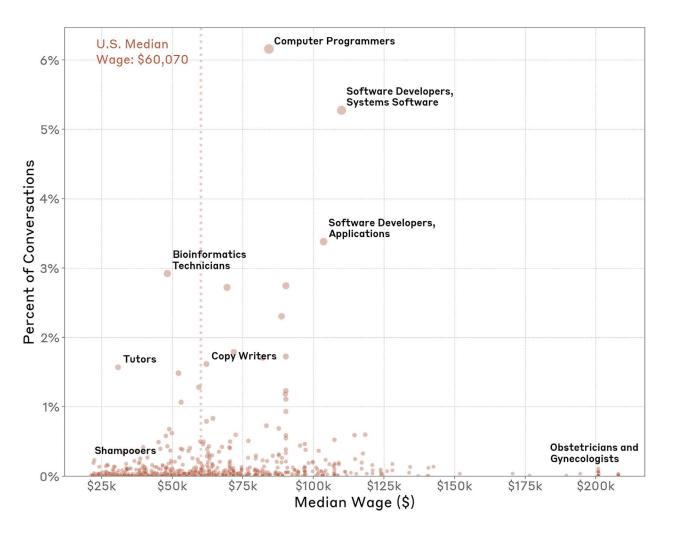




Computer & Mathematical	37.2%	🖋 Arts & Media	10.3%	SP Education & Library	9.3
Titles		Top Titles		Top Titles	
Computer Programmers	6.1%	☐ Technical Writers	1.8%	<b>≅</b> Tutors	1.6
Software Developers, Systems Software	5.3%	⊕ Copy Writers	1.6%	<b>≘</b> Archivists	1.5
Software Developers, Applications	3.4%	<b>≜</b> Editors	1.3%	<b>≅</b> Instructional Designers	0.8
Tasks		Top Tasks		Top Tasks	
Develop and maintain software applications and websites	16.8%	Produce and perform in film, TV, theater, and music	1.8%	Design and develop comprehensive educational curricula and materials	1.9
Program and debug computer systems and machinery	6.9%	Manage organizational public relations & strategic comms	1.3%	Teach and instruct diverse subjects across educational settings	1.7
Design & maintain database systems	2.3%	Develop & execute multi-industry marketing & promotional strategies	1.2%	Manage book and document publishing processes	1.4
for data management and analysis					
Office & Administrative	7.9%	▲ Life, Physical & Social Science	6.4%	■ Business & Financial	5.
Office & Administrative		Top Titles		Top Titles	5.
Office & Administrative	2.9%		0.5%		0.5
Office & Administrative  Titles  Bioinformatics Technicians		Top Titles		Top Titles	
Office & Administrative  Titles  Bioinformatics Technicians  Statistical Assistants	2.9%	Top Titles	0.5%	Top Titles      Security Management Specialists	0.5
	2.9%	Top Titles	0.5%	Top Titles	0.5
Office & Administrative  Titles Bioinformatics Technicians Statistical Assistants Word Processors	2.9%	Top Titles	0.5%	Top Titles	0.4
Office & Administrative  Titles Bioinformatics Technicians Statistical Assistants Word Processors Tasks	2.9% 0.4% 0.4%	Top Titles	0.5% 0.4% 0.4%	Top Titles	0.5

#### Al usage by job type







## **BLOOM'S TAXONOMY**

Use Existing Information to make something new Create Invent, Develop, Design, Compose, Generate, Construct Make judgments based on sound analysis **Evaluate** Assess, Judge, Defend, Prioritize, Critique, Recommend Explore relationships, causes, and connections **Analyze** Compare, Contrast, Categorize, Organize, Distinguish Use existing knowledge in new contexts **Apply** Practice, Calculate, Implement, Operate, Use, Illustrate Grasp the meaning of something **Understand** Explain, Paraphrase, Report, Describe, Summarize Retain and recall information Remember Reiterate, Memorize, Duplicate, Repeat, Identify

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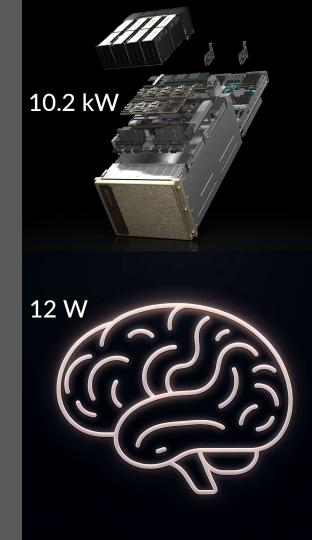


## Al vs IA

"Al succeeds as a tool, fails as a crutch." -Dr. Carly Fox

**Artificial Intelligence**: Machines replicating human intelligence

**Intelligence Augmentation**: Enhancing human intelligence via machines



Human problems require human solutions. Data Science, Machine Learning, and Artificial Intelligence are tools designed to support, not replace, human decision-making in human resources.

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