

## Qui je suis?

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Michelin / Laboratoire de Mathématique Blaise Pascal

## Quelques infos

22h de cours (Lundi et mardi , 17h-19h) Pas de cours le 30 septembre et le 01 octobre











#### Evaluation

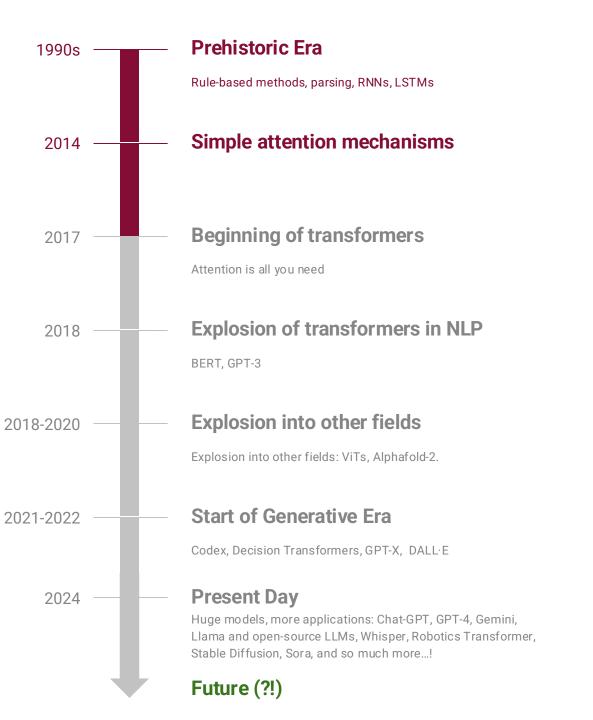
Ramassage code TPs à la fin de l'heure

Critères: Justesse, Performance, Lisibilité du code

Contrôle continu

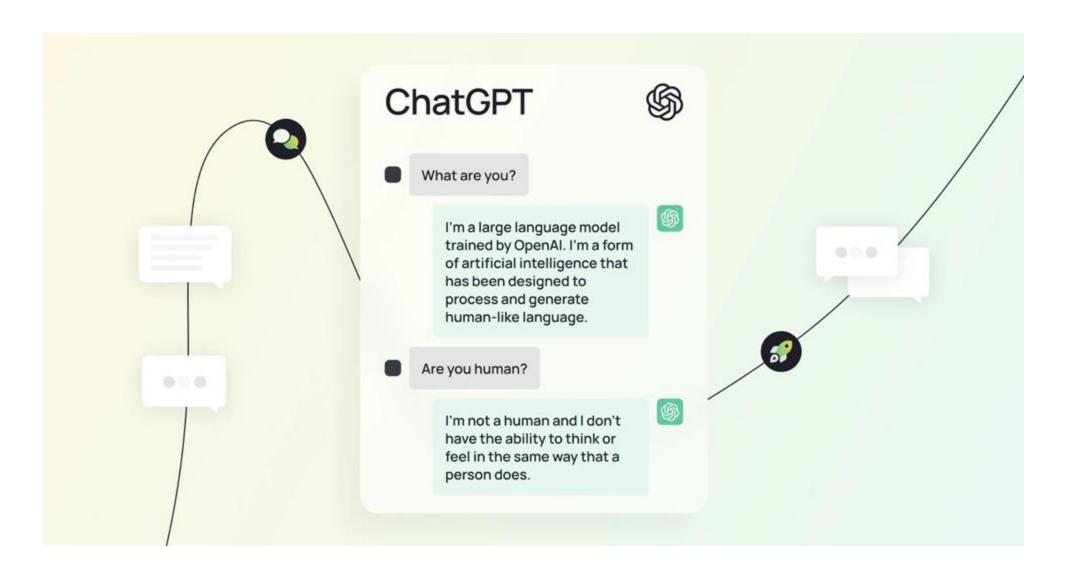
### Transformers: Introduction

#### **Attention Timeline**



# Principales applications des transformeurs

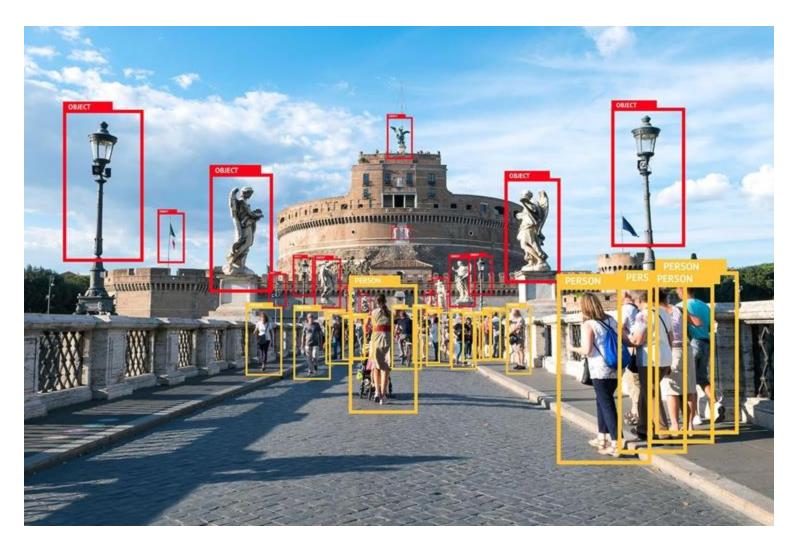
#### **Text and Language**



#### Audio: Speech + Music

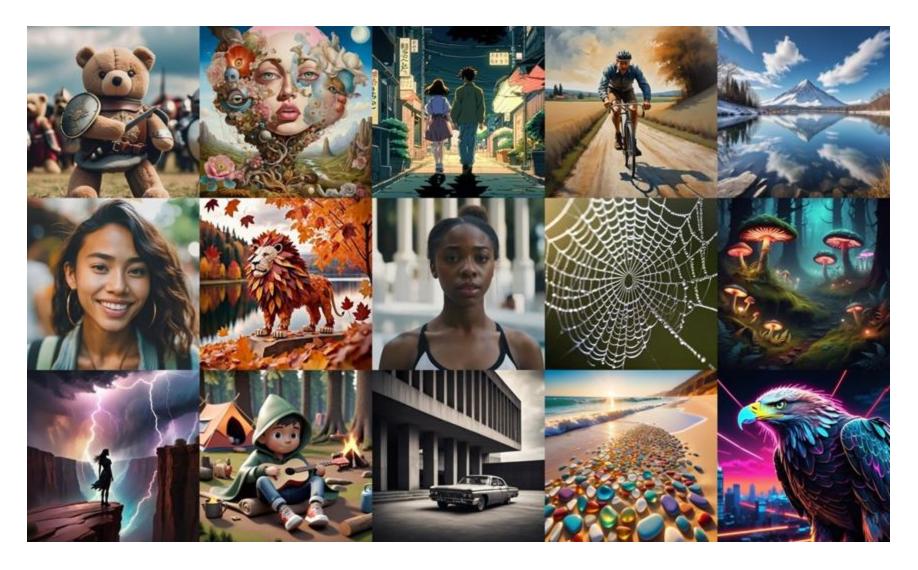


#### Vision: Analyzing Images & Videos



Vision Transformer (ViT)

#### **Vision: Generating Images & Video**



Images: Stable Diffusion, Dall-E, Midjourney, etc.

Videos: Sora, Pika, etc.

#### Robotics, Simulations, Physical Tasks



E.g. Voyager, Mobile ALOHA



#### **Playing Games**

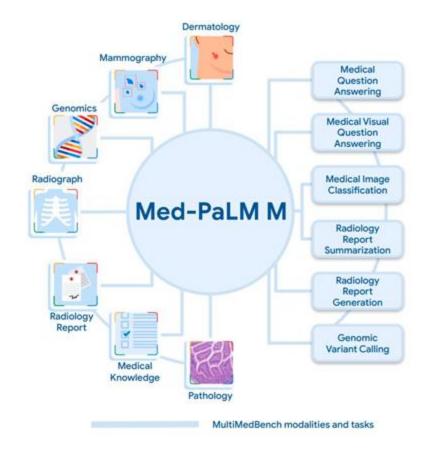


E.g. AlphaGo, AlphaStar, Al for MOBAs (e.g. Dota 2 / LoL)





#### **Biology + Healthcare**



E.g. Med-PaLM, AlphaFold



