

# Building AI into your Elixir applications

Petrus Janse van Rensburg - ElixirZA Meetup, 16 May 2023

**"It's only called AI if it's from the AI region  
of France. Otherwise, it's just sparkling  
Machine Learning"**

Machine learning  
Machine learning

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of France. Otherwise, it's just sparkling  
~~Machine Learning~~"

Linear Algebra

# The background stuff

**Reinforcement Learning**

**Neural Networks**

**Artificial Intelligence**

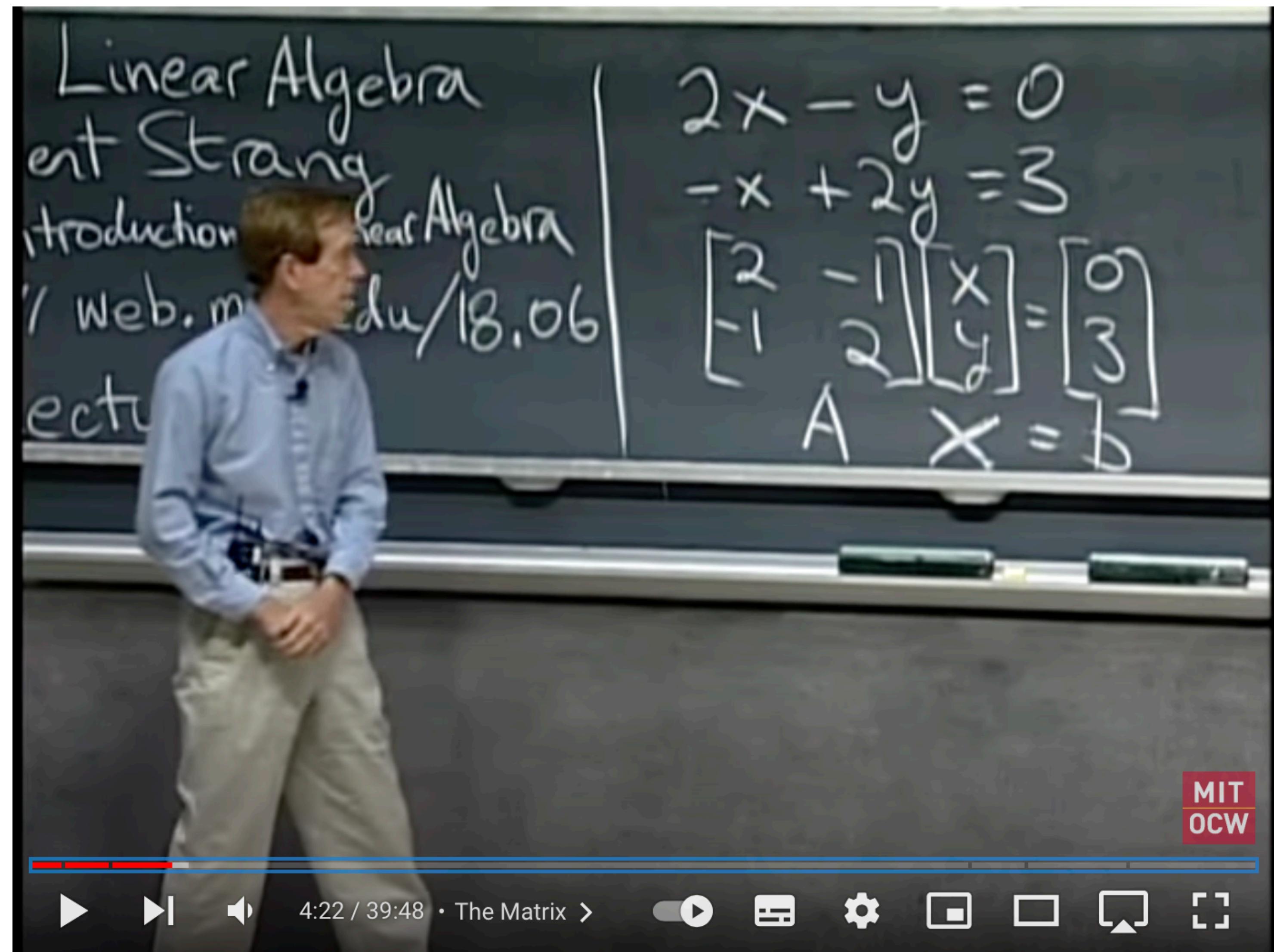
**Supervised / Unsupervised Learning**

**Machine Learning**

**Deep Learning**

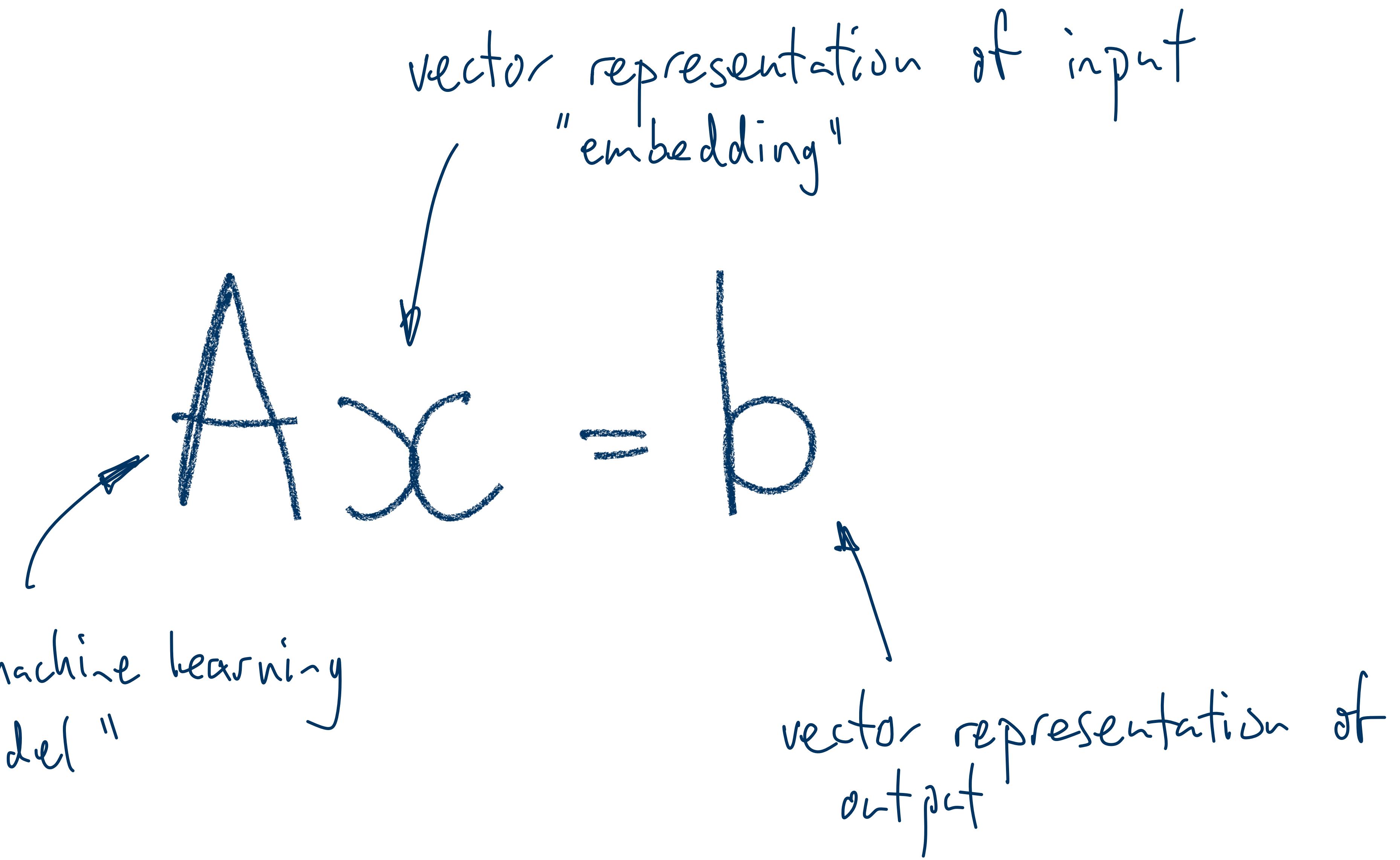
**Natural Language Processing**

# Linear algebra

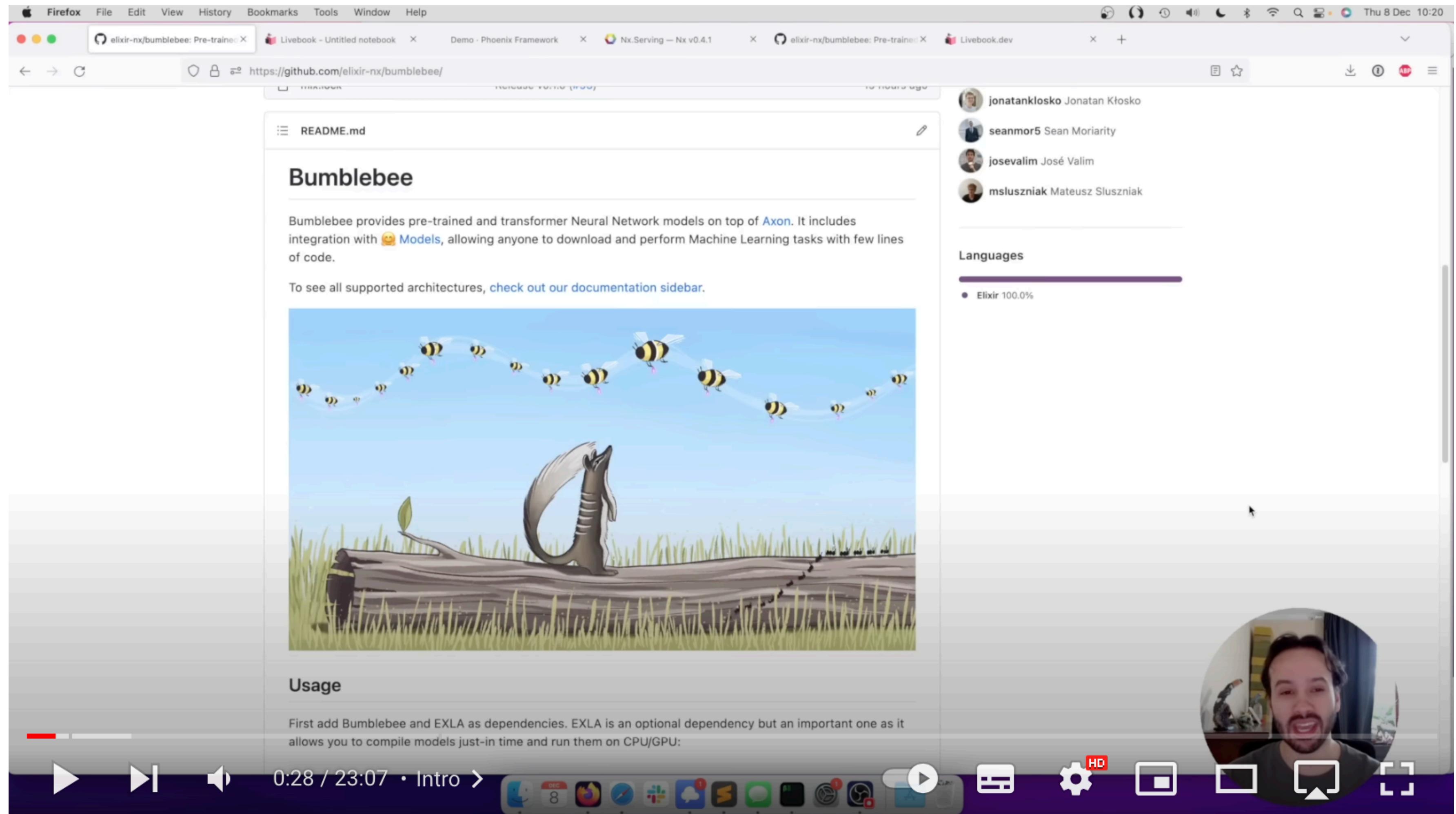


$$A\vec{x} = \vec{b}$$

the machine learning  
"Model"

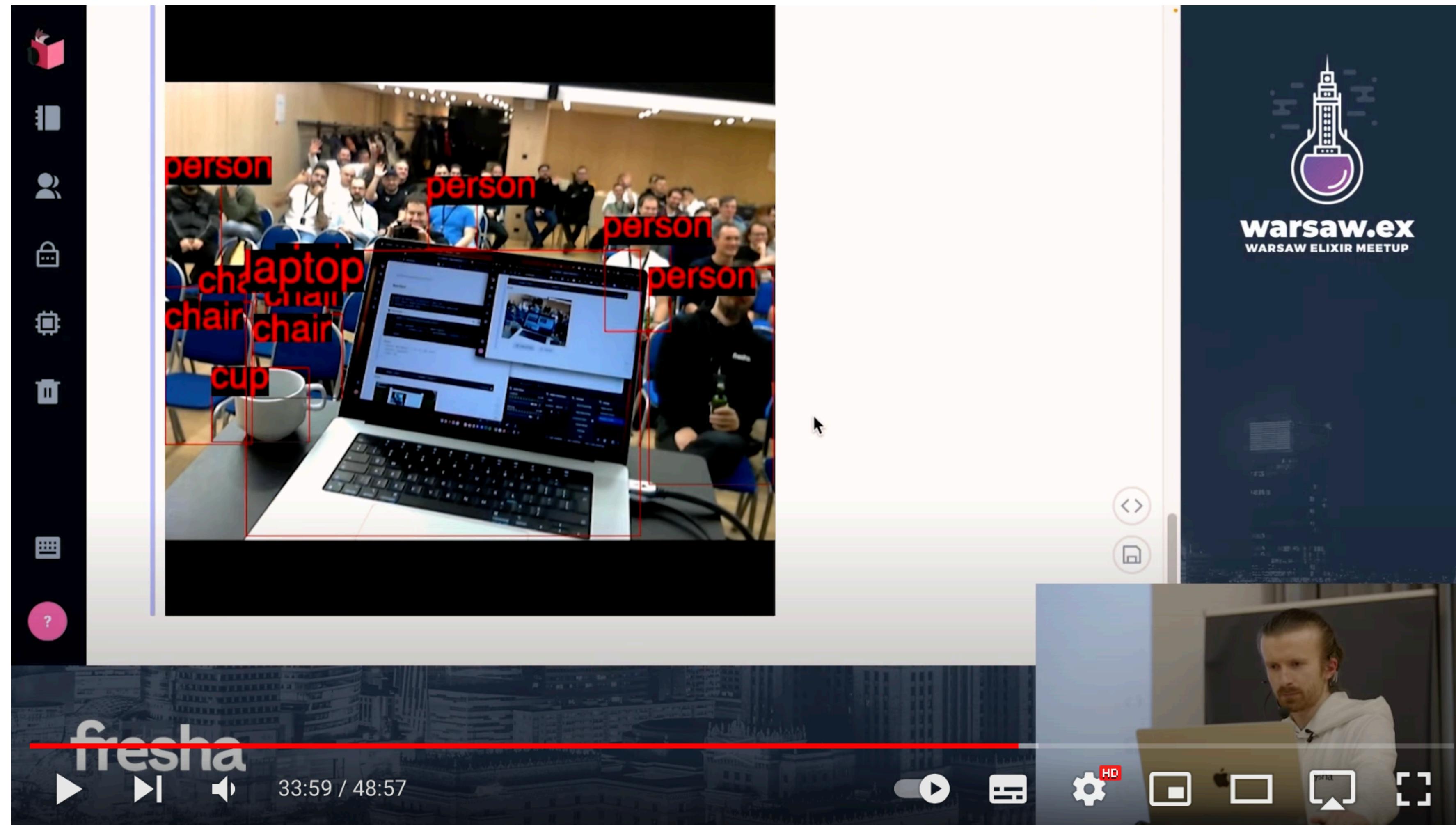


# Running this stuff locally



<https://www.youtube.com/watch?v=g3oyh3g1AtQ>

# Livebook



<https://www.youtube.com/watch?v=OsxGB6MbA8o>

# Roboflow

Rather just use the cloud

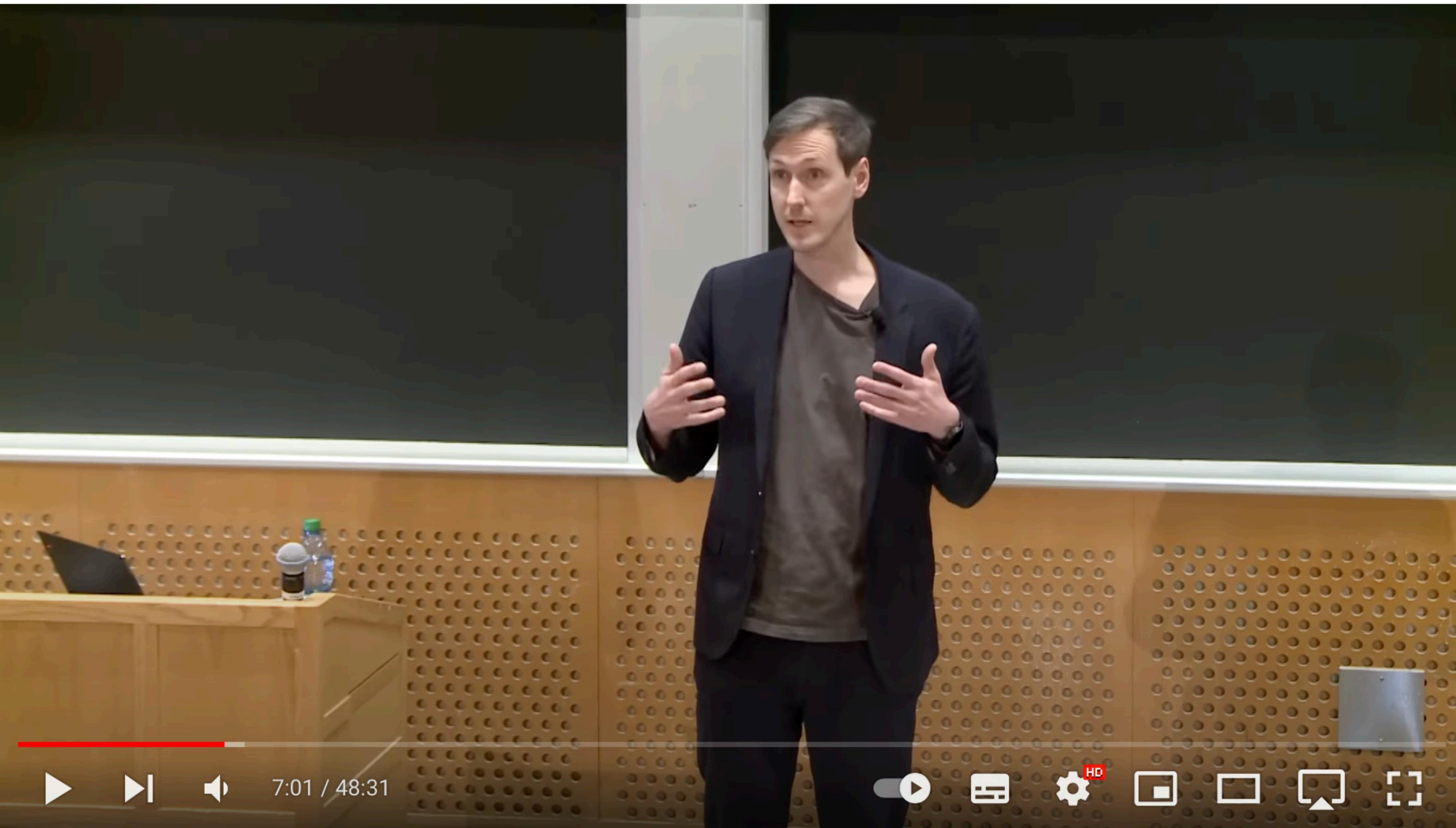
**nat.dev**

openai

But how do I use this in my Elixir application?

demo

# Learn more



## Sparks of AGI: early experiments with GPT-4

<https://arxiv.org/abs/2303.12712>

<https://www.youtube.com/watch?v=qblk7-JPB2c>

# Thank You