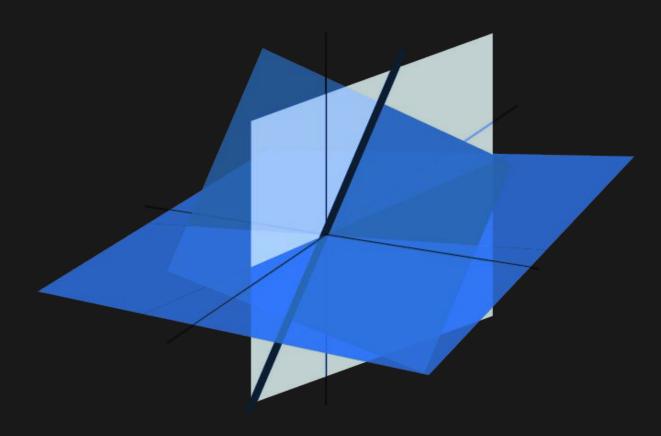
Why You Should Give a Shit About Linear Algebra

Practical Linear Algebra | Lecture 1

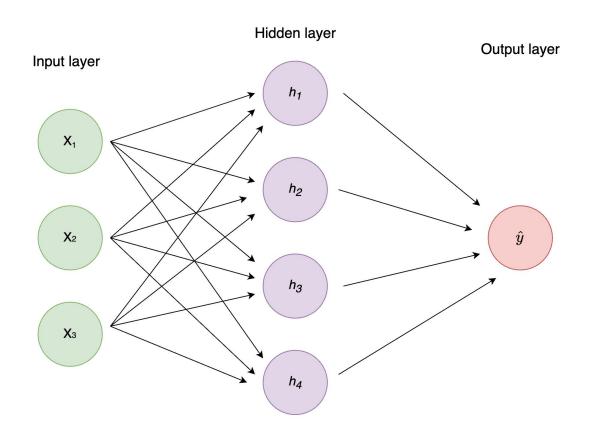


It's Super Interesting

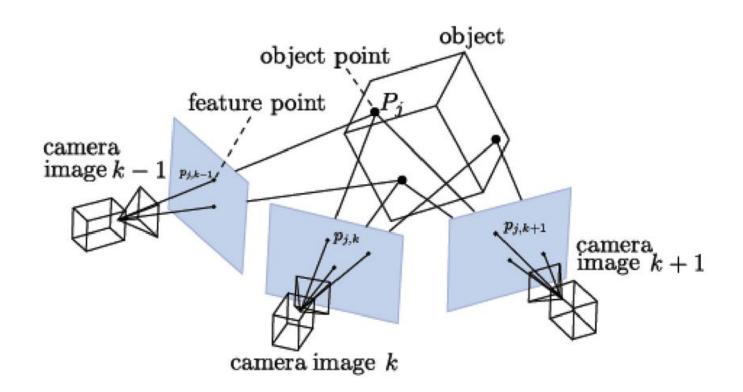




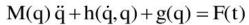
Artificial Intelligence

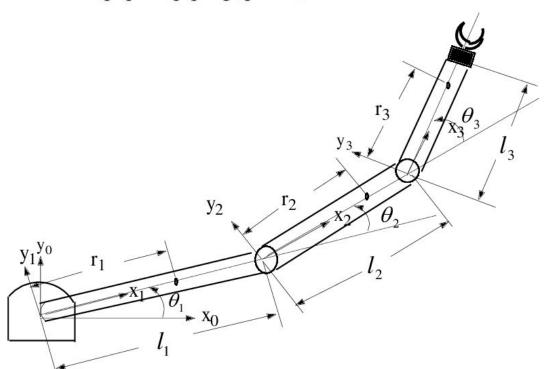


Computer Vision



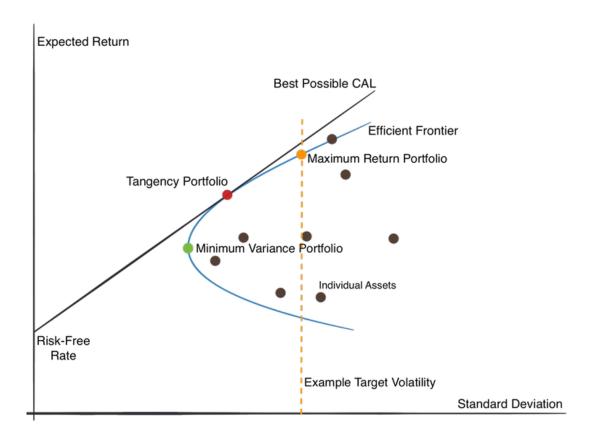
Robotics



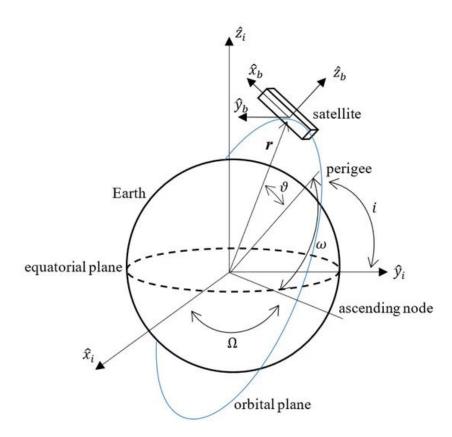




Finance



Aircraft and Spacecraft Control



What You'll Learn

- Vector and Matrix Properties
- Least-Squares
- QR Decomposition
- Eigenvectors
- Singular Value Decomposition
- Linear Algebra and Computation in Python
- Lots of Practical Applications



Why This Course is Different

- We'll cover only what's absolutely essential
- We'll build intuition and understand concepts visually
- We'll tie concepts to real-world applications
- We'll keep things practical with Python programming
- This won't be your typical stuffy academic course



Why Listen to Me?

- I was a teaching assistant for a graduate-level applied linear algebra course at Stanford (EE 263)
- I've been using linear algebra in robotics, computer vision and AI for years in industry
- I've got a solid grasp of both theory and application
- I won't be boring

