## Introduction

**Analogy:** Planes don't fly like birds — yet they fly better.

This provokes a key AI question: Must Als "think" like humans to be intelligent or useful?

Thesis: Intelligence, like flight, might be achieved through different architectures — not necessarily by imitating human cognition.

## The Human Model

#### Why emulate humans?

- Human cognition is the only known general intelligence.
- Cognitive architectures (e.g., ACT-R, SOAR) reflect human patterns.
- Advantages: Interpretability, alignment, and trust.
- **But:** Human cognition is biologically constrained.

## Philosophical Questions

- What qualifies as intelligence if not based on human-like thou
- Can non-human intelligences have moral status or rights?
- How do we align with entities that don't think like us?

# When Planes Fly Better Than Birds: Should Als Think Like Humans?

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	The Engineering Perspective	Conclusion
erent	<ul> <li>Function over form:</li> <li>AlphaGo, GPT models, AlphaFold — all exceed humans in domains without replicating human cognition.</li> <li>Non-humanlike architectures can scale better and achieve greater efficiency.</li> <li>Imitating humans may introduce unnecessary constraints.</li> </ul>	Airplanes don't flap. Als d Takeaways: <ul> <li>Human-like Al aids alignm</li> <li>Non-humanlike Al may und</li> <li>Pluralism is key: build Als</li> </ul> <li>References</li> <li>Contact</li> <li>Soumya Banerjee</li> <li>University of Cambridge</li> <li>sb2333@cam.ac.uk</li>
	Ethical Concerns	
n reasoning	<ul> <li>Human-like AI supports legibility, predictability, and alignment.</li> <li>Divergence raises risks: opaque reasoning, value misalignment, and trust deficits.</li> <li>Intelligence is context-sensitive — more than a raw capability.</li> </ul>	
	Hybrid Intelligence	
ought?	<ul> <li>Best of both worlds?</li> <li>Combine symbolic reasoning and statistical learning.</li> <li>Enable human-in-the-loop collaboration.</li> <li>Foster co-evolution of human and machine understanding.</li> </ul>	
ougnt:		

don't have to think like us.

ment and trust. unlock new paradigms. Is based on use-case, not ideology.