How DeepInverse is solving imaging in science & healthcare with PyTorch

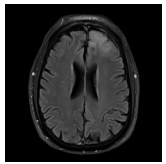
Andrew Wang

THE UNIVERSITY of EDINBURGH

BLUR LABS

Imaging: the final frontier of computer vision

The world
The universe
Human body
Cells



Processed image

Downstream

Analysis
Reasoning
Agents
Perception
World models

Deep Inverse

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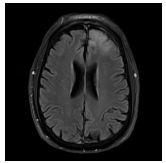
Device

01101100
01101111
01110110
01100101

Measurement data

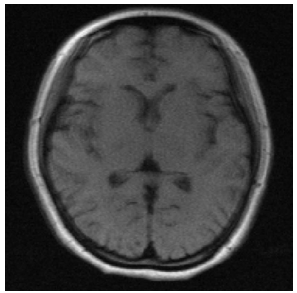
Image Reconstruction



Processed image

Downstream

Magnetic Resonance Imaging
Positron Emission Tomography
Multispectral imaging
Radio interferometry



Bottlenecks
Increasing access to MRI
Accelerating cancer imaging
Improving precision of keyhole surgery
Detecting black holes

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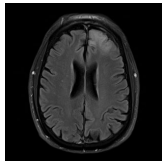

Processed image

Downstream

Foundation models
Mathematical optimisation
Diffusion models

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Terris et al., "**Reconstruct Anything Model**: a lightweight foundation model for computational imaging", ICLR 2026
Daras et al., "A Survey on Diffusion Models for Inverse Problems", arXiv 2024

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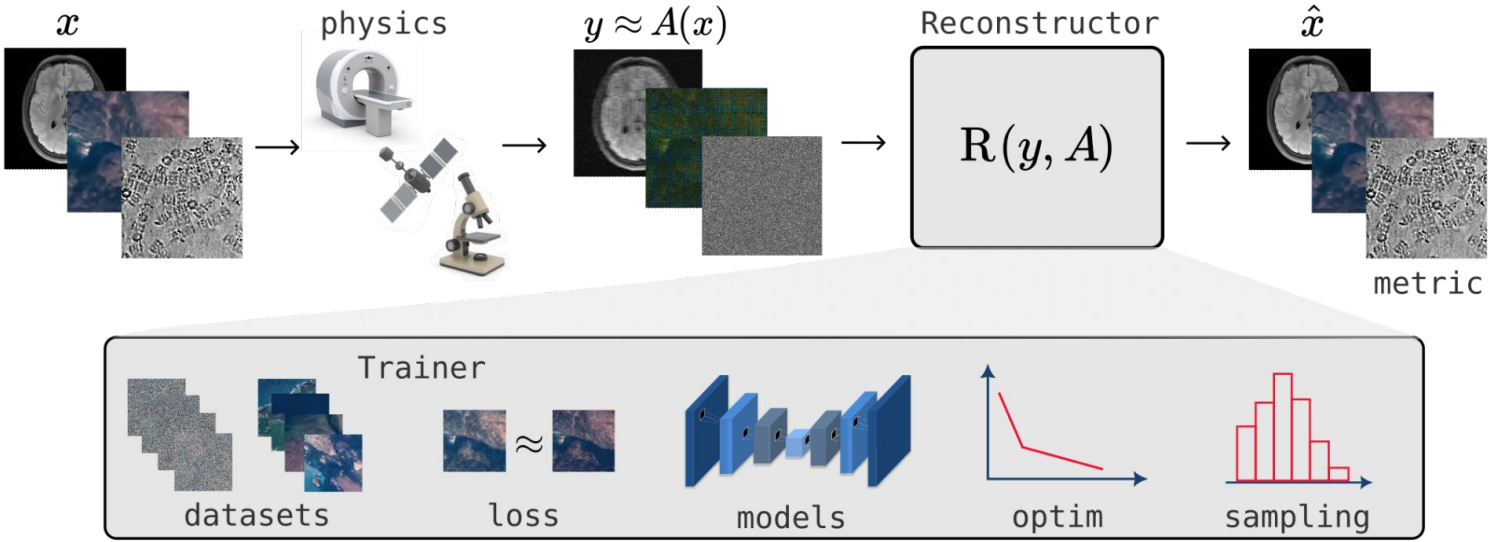
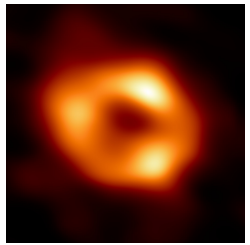


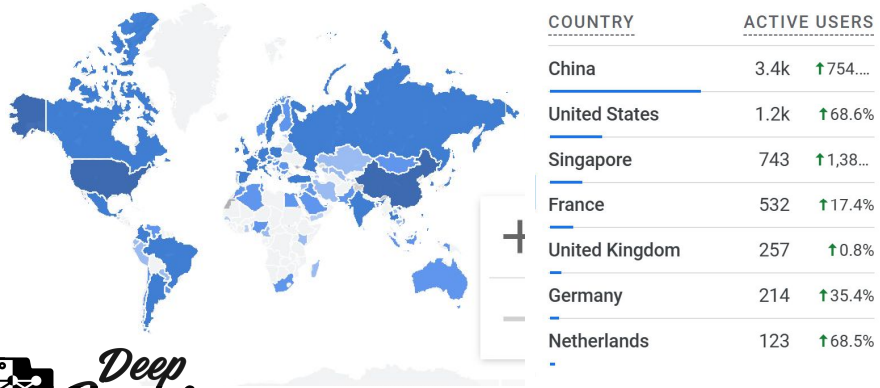
Get involved

Who? For devs, hackers & engineers

Why? Big engineering problems, friendly community

How? → github.com/deepinv/deepinv





COUNTRY	ACTIVE USERS	
China	3.4k	↑754....
United States	1.2k	↑68.6%
Singapore	743	↑1,38...
France	532	↑17.4%
United Kingdom	257	↑0.8%
Germany	214	↑35.4%
Netherlands	123	↑68.5%

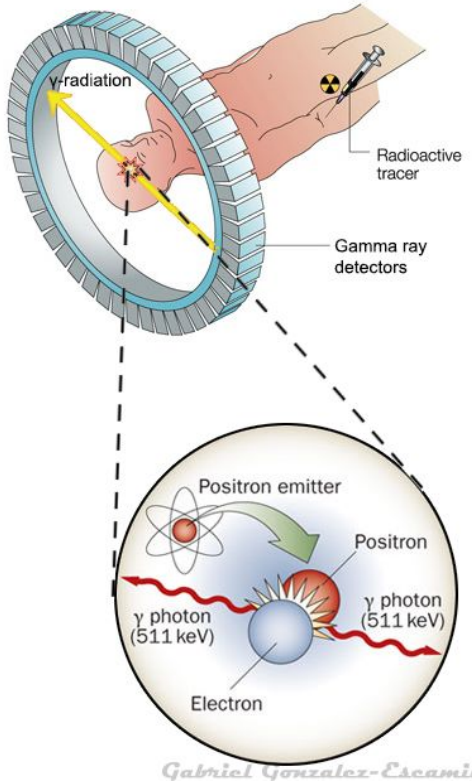
Global quarterly usage

Get involved

Who? For scientists, students & mathematicians

Why? Open problems at intersection of physics & ML

How? → github.com/deepinv/deepinv



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Get involved

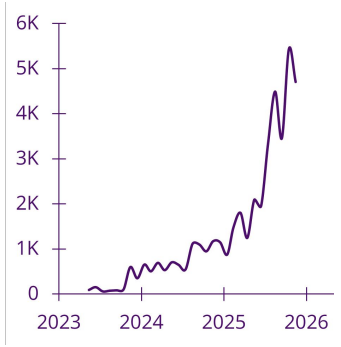
Who? For OSS ecosystem, partners and investors

Why? Blur Labs is a Paris-based startup building foundation models for imaging

How? → let's chat or **`hello@blurlabs.ai`**

Reconstruct Anything Model

ICLR



Monthly downloads

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