

Foundation Models

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CRFM: Center for Research on FM

Emergence:

self-supervised learning

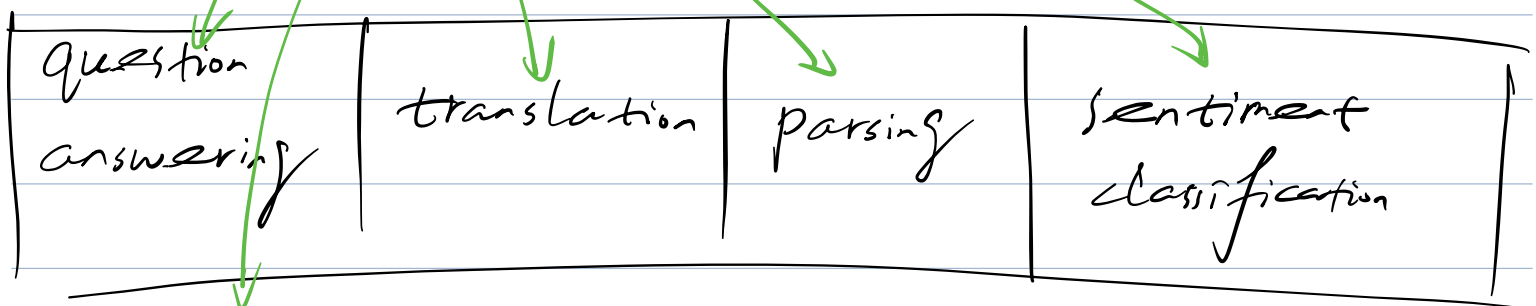
GPT-3 175 billion params

570G text

(1) in context learning

(2) generalization to new tasks

Homogenization:



Conference
Resolution

Foundation Model



Homogeneity model

2019 ←

✓ Brittleness:

Lacks - common sense

internal consistency

✓ Harms:

generate offensive content

untruthful content

enable disinformation



✓ Loss in accessibility

✓ deep learning v.s. foundation models

The Pile, GPT-J, Hugging Face

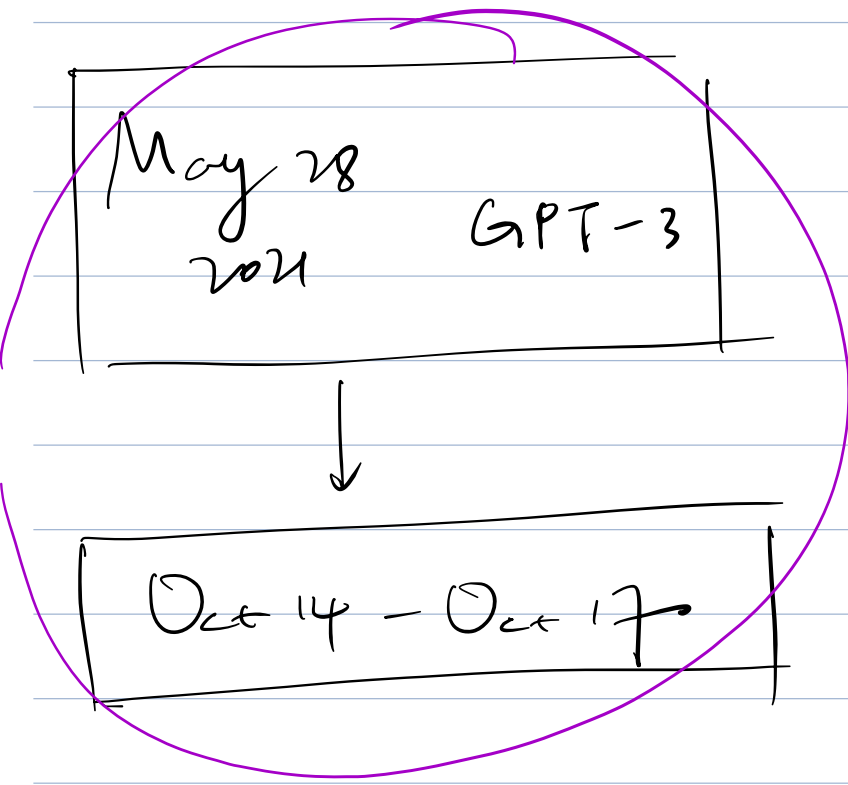
✓ require immense resources

✓ Diversity

✓ representational diversity

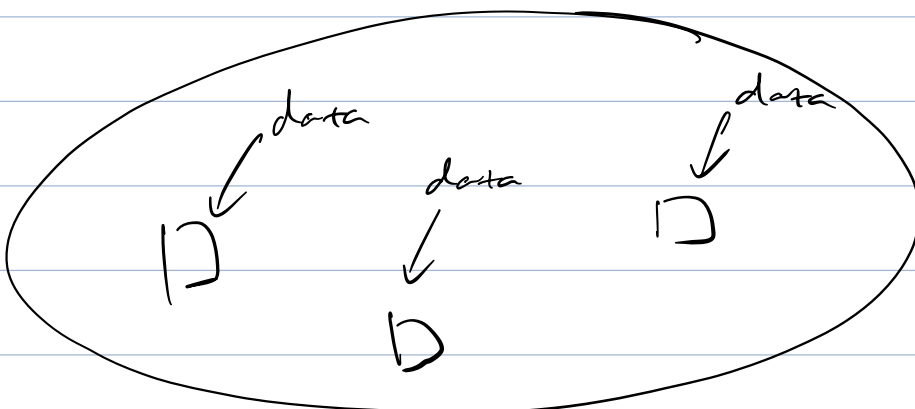
✓ institutional diversity

✓ disciplinary diversity



Thought:

- decentralization
- documentation of data and models
(BigScience data governance group)
- Synthetic data



✓ early days

✓ emergence + homogenization

✓ Communi