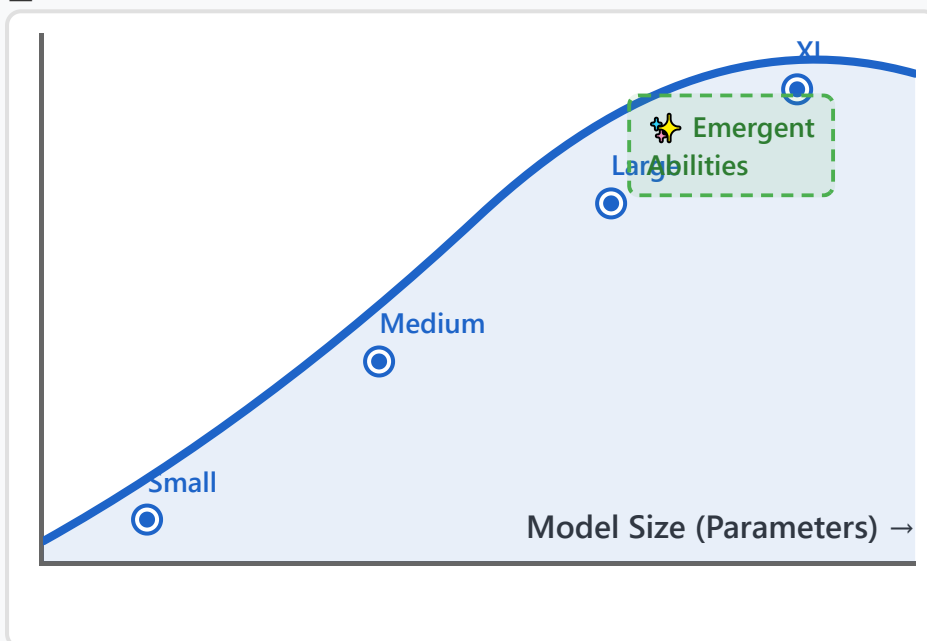


The Importance of Scale

Performance

Scaling Laws: Model Size vs. Performance



Predictable Growth

Performance improves **predictably** with size



More Parameters

Capture **more patterns** & knowledge



Larger Datasets

Richer **knowledge** coverage



Emergent Abilities

New capabilities at **scale thresholds**



Few-shot Learning

Dramatically **improves** with scale



Trade-off

Performance vs. Efficiency & Accessibility