The future of programming

The rise of Software 2.0 ushers in the use of machine learning to develop software. By eliminating the manual writing of code, it enables organizations to build software much faster.

Why it matters

This trend makes possible the rapid scaling of software and the creation of new AI applications, lowering technical barriers to entry and giving an advantage to those able to source and refine the data needed to train models.

How fast is this trend moving?
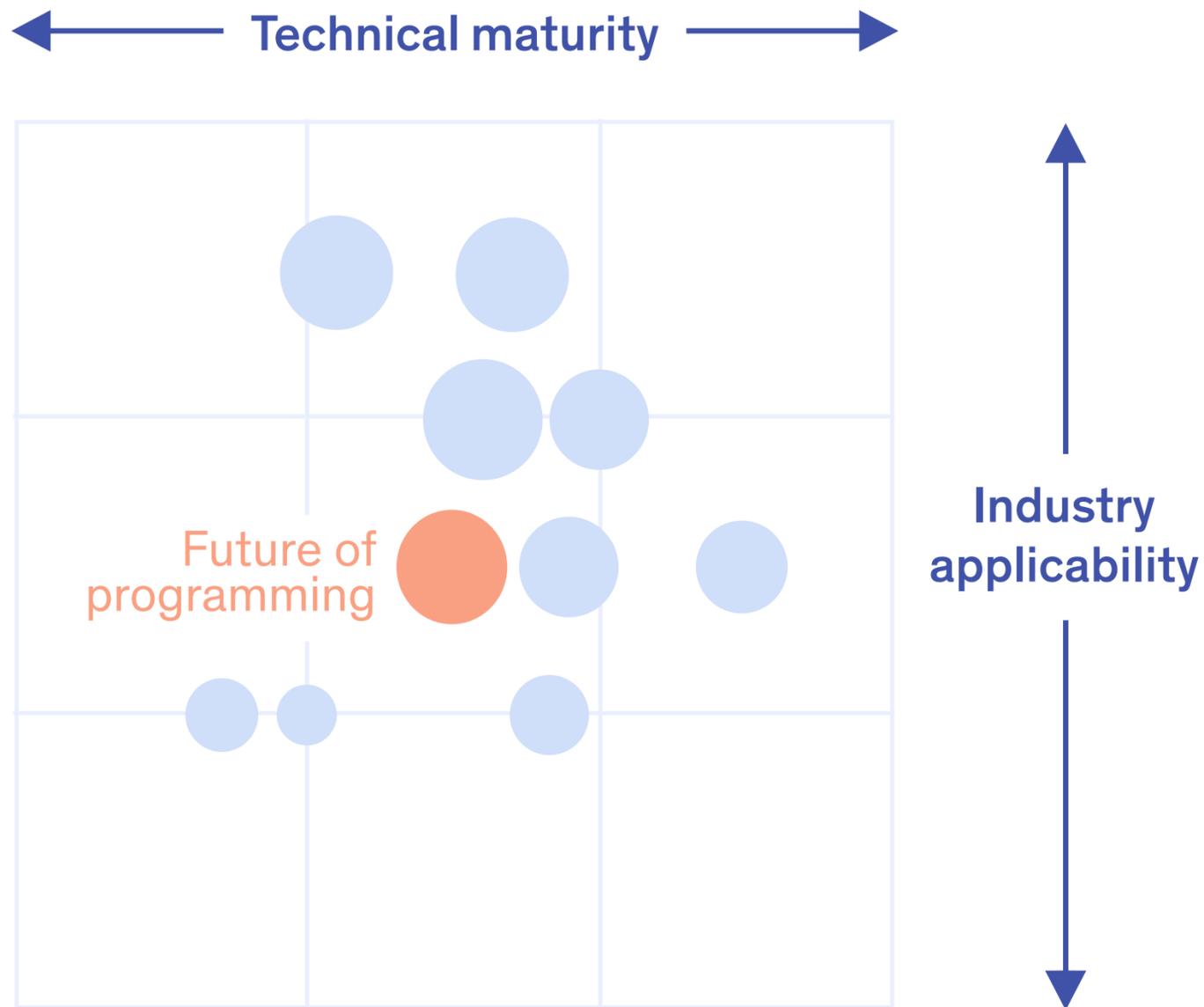
Technical maturity:
Fundamental Research → Mass Adoption

Industry applicability:
Niche → Industry Cross-Cutting

Scaling capabilities

As companies look to scale their software-development capabilities, they will need to evolve their:
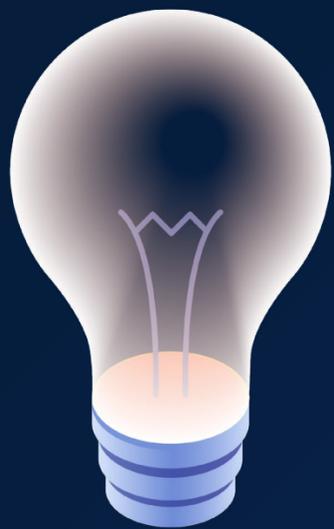
Talent

Tech stack
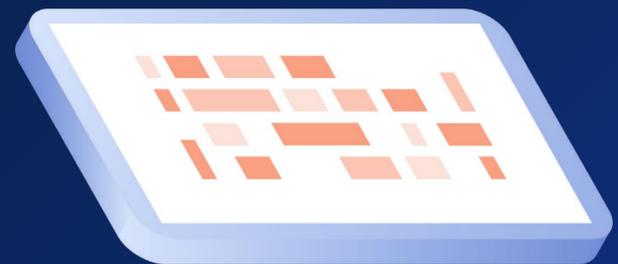
Development practices (DevOps and MLOps)

Applications in Automotive

An automotive-company leveraged Software 2.0–driven AI to deliver approximately 800,000 autopilot cars that have collected more than 3BN miles of driving data and used it to continually improve their AI.
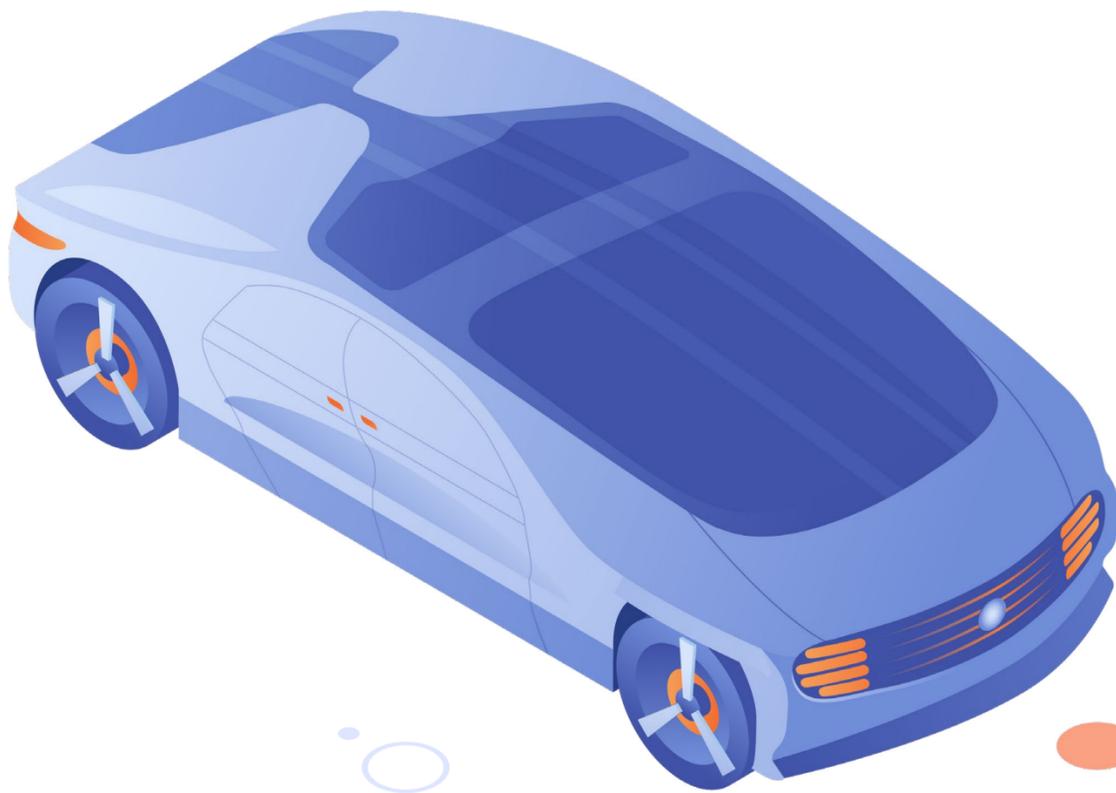
Applications in Entertainment

A streaming service built a unified API to the infrastructure stack to design workflow, run it at scale, deploy to production, and provide automatic version and experiment tracking. As a result, median deployment time was reduced from four months to seven days.

Applications in Financial Services

A fintech start-up built a model-as-a-service platform that uses metrics and dashboards to reduce design and deployment time—from months to minutes—without risk of compliance issues.

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The top trends in tech