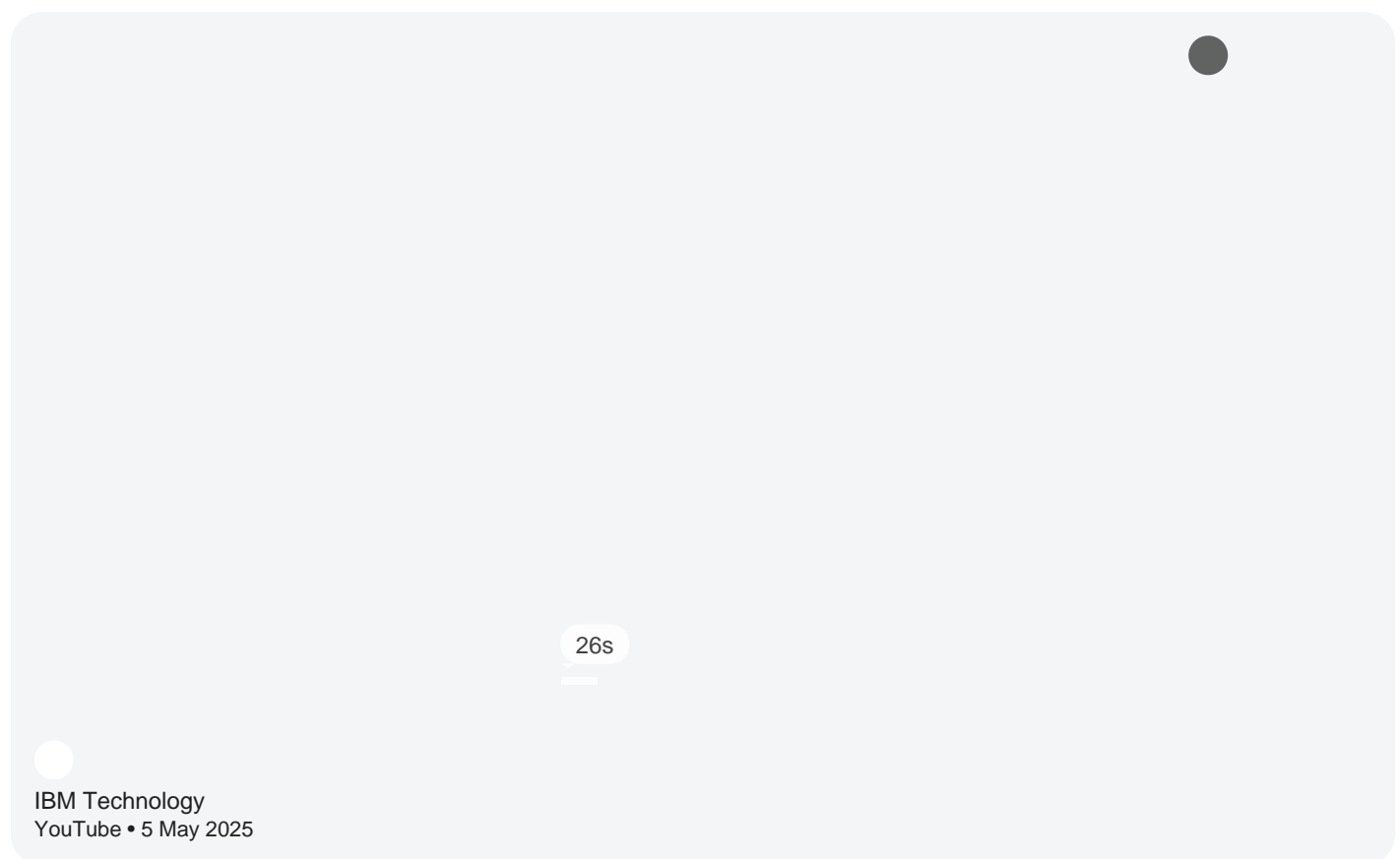


AI APIs

AI APIs provide pre-built intelligence for applications, categorized by function like **Computer Vision (Clarifai, Imagga)**, **NLP (OpenAI, Cohere, Hugging Face)**, **Speech (AssemblyAI, AWS Lex)**, and **Generative AI (Stability AI, Anthropic Claude)**, offered by major providers (Google Cloud AI, Microsoft Azure) and specialists, enabling features like image recognition, translation, chatbots, and content creation without building models from scratch.

This video explains how APIs allow systems to integrate external functionalities:



By Functionality

Computer Vision: Analyze images/video (e.g., object detection, facial recognition).

Examples: Clarifai, Imagga, Microsoft Azure Computer Vision.

Natural Language Processing (NLP): Understand, generate, translate text (sentiment analysis, summarization).

Examples: OpenAI (GPT), Cohere, Hugging Face, Google Cloud Natural Language.

Speech: Convert speech to text (transcription) or text to speech (voice synthesis).

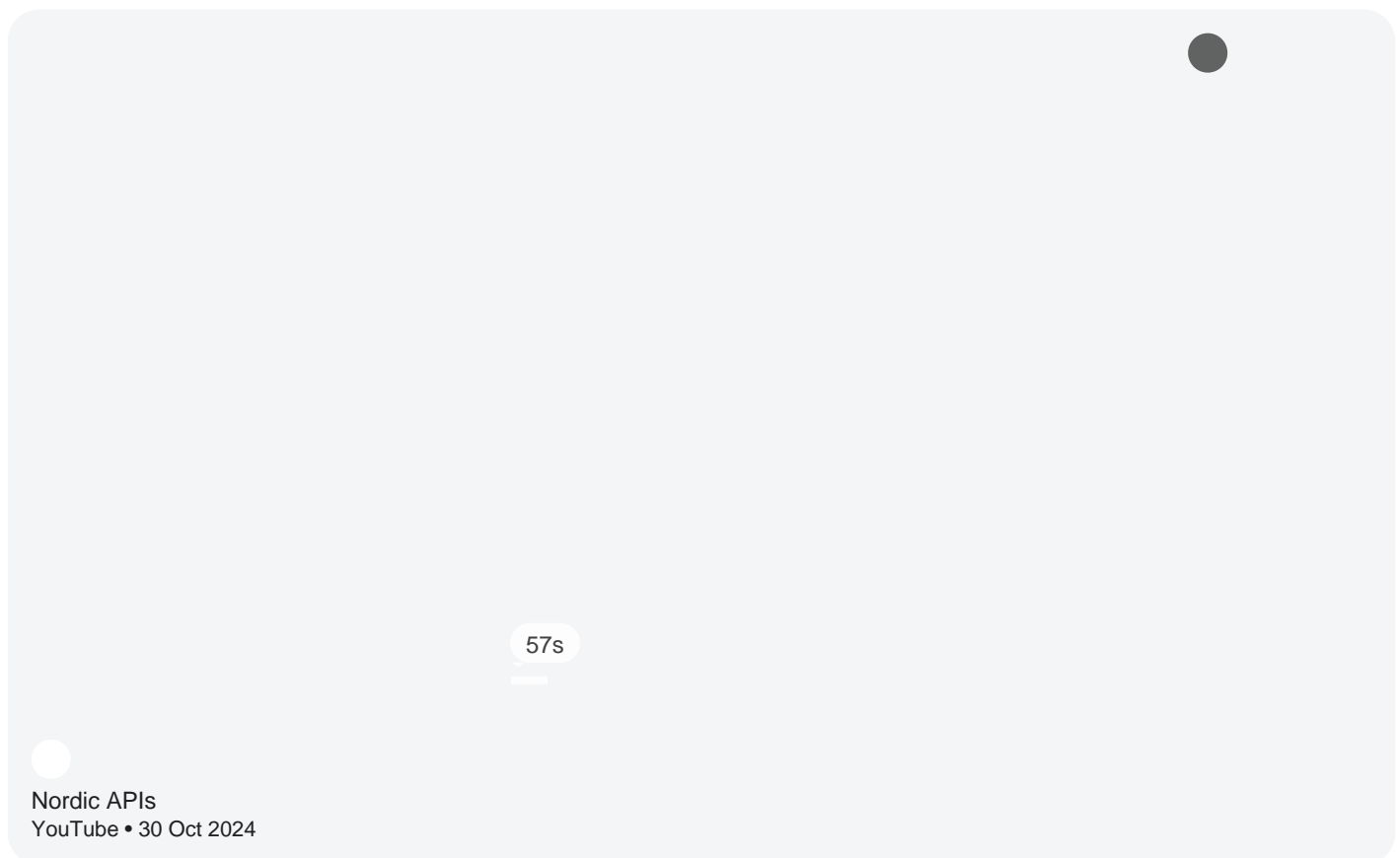
Examples: AssemblyAI, AWS Transcribe/Polly, Google Assistant API.

Generative AI: Create new content (text, images, video).

Examples: OpenAI (DALL-E), Stability AI, Runway AI, Anthropic Claude.

Predictive Analytics: Forecast outcomes from data.

This video shows how to build AI-powered apps with API integrations:



By Provider

Major Cloud Platforms: Comprehensive AI suites.

Examples: Google Cloud AI, Microsoft Azure Cognitive Services, AWS AI Services (Rekognition, Comprehend).

Specialized AI Companies: Focus on specific models or tasks.

Examples: OpenAI, Anthropic, Cohere, Stability AI, DeepAI.

Model Hubs & Platforms: Access diverse models easily.

Examples: Hugging Face. 


Key Providers & Their Strengths

OpenAI: Leading generative models (GPT, DALL-E).

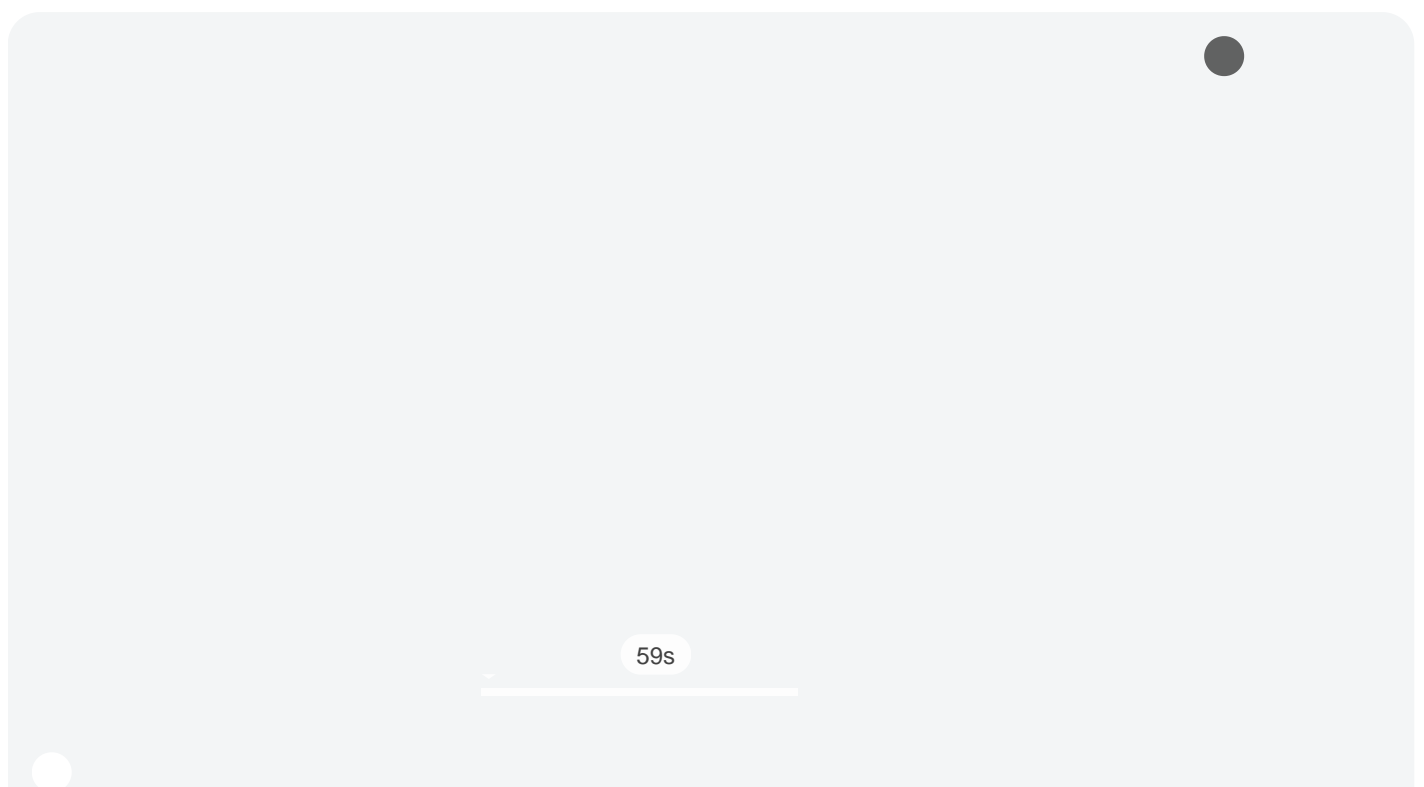
Microsoft Azure: Broad Cognitive Services, strong enterprise focus.

Google Cloud AI: Scalable, powerful tools (Vision AI, Dialogflow).

AWS: Reliable, secure, usage-based (Lex, Transcribe).

Hugging Face: Vast collection of open-source models. 

This video demonstrates how to use AI APIs for free:



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