



AZURE DAY



Using Container Apps for RAG applications

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Thanks to

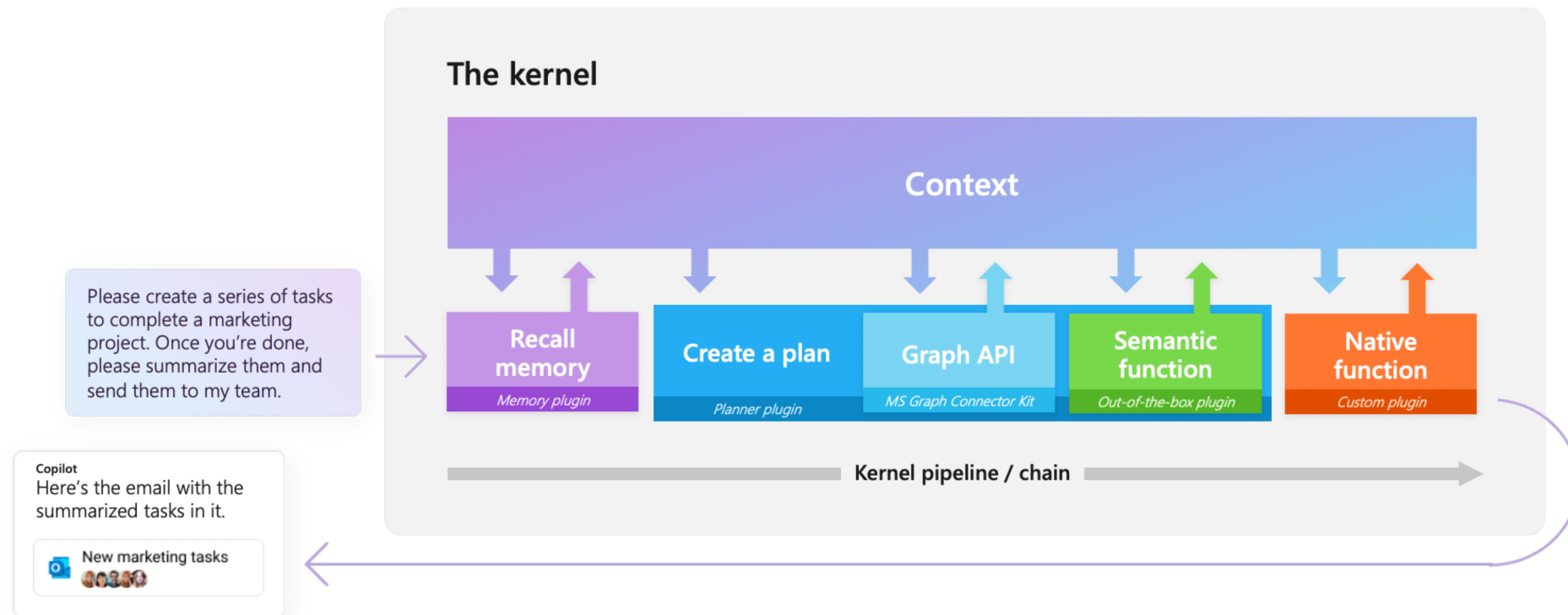




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Semantic Kernel

- Semantic Kernel is an SDK that integrates Large Language Models (LLMs) like OpenAI, Azure OpenAI, and Hugging Face with conventional programming languages like C#, Python, and Java. Semantic Kernel achieves this by allowing you to define plugins that can be **chained** together in just a few lines of code.





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Semantic Kernel

ChatGPT



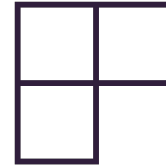
M365 Copilot



Bing

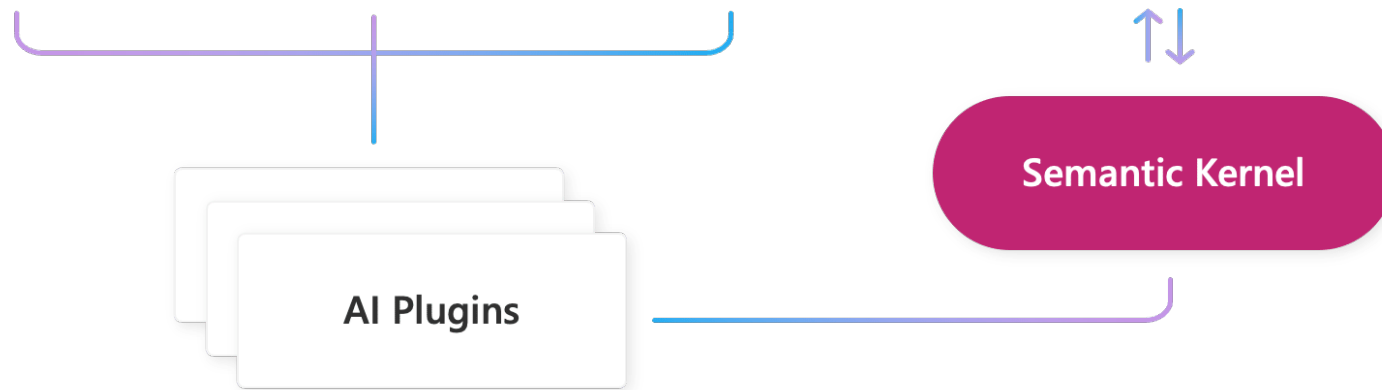


Your application



Semantic Kernel

AI Plugins





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Chain Chain Chain

Writer plugin

Function	Description for model
Brainstorm	Given a goal or topic description generate a list of ideas.
EmailGen	Write an email from the given bullet points.
ShortPoem	Turn a scenario into a short and entertaining poem.
StoryGen	Generate a list of synopsis for a novel or novella with sub-chapters.
Translate	Translate the input into a language of your choice.

Can you write me a short poem about living in Dublin, Ireland and then create a story based on the poem?



Planner

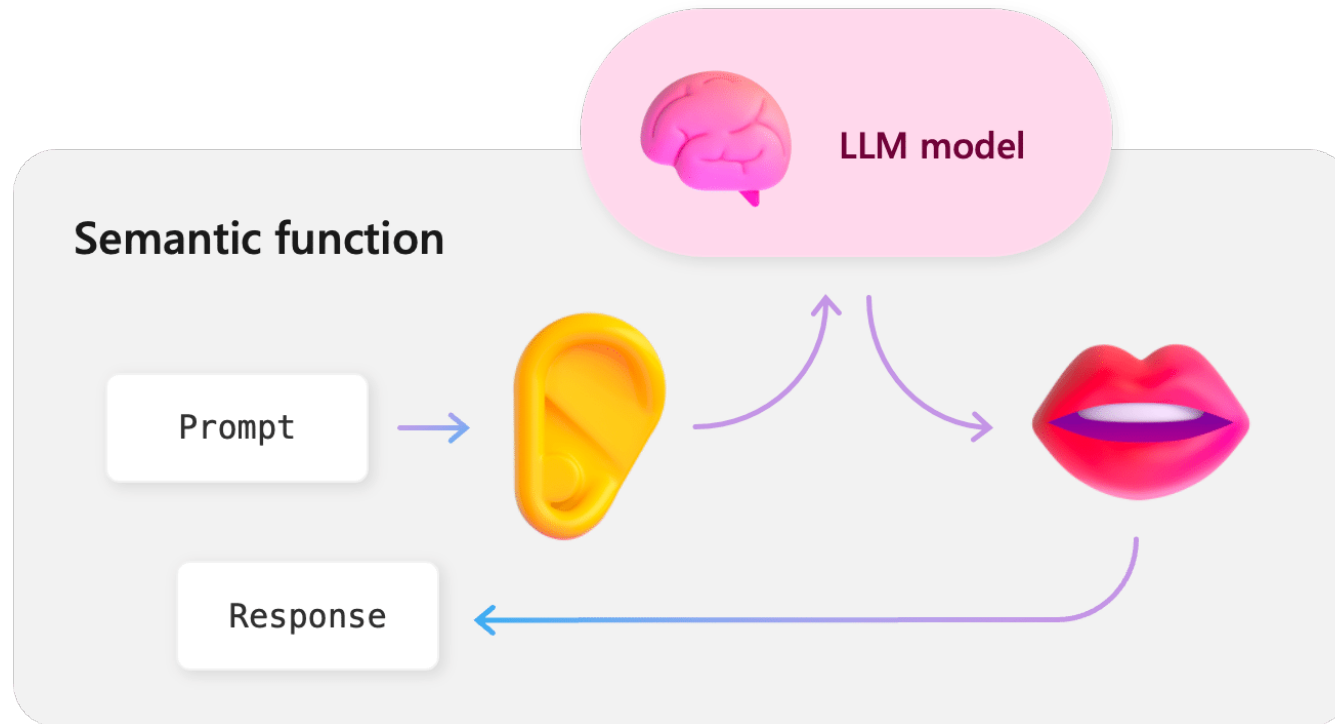
Copilot
Sure! Here's a story based on living along the Grand Canal in Dublin, Ireland...





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Semantic Kernel

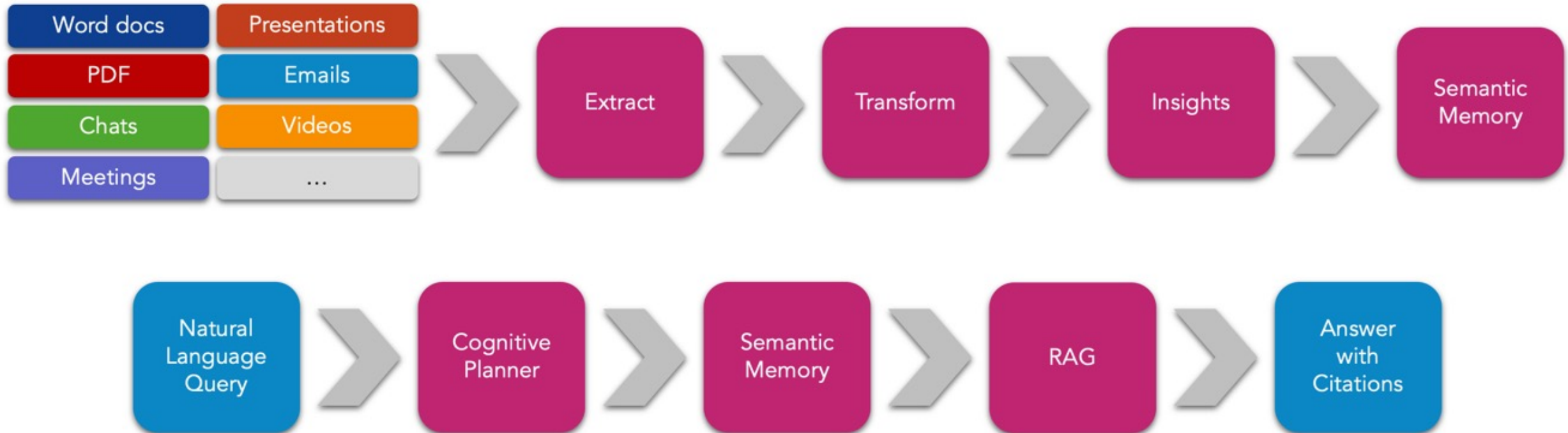




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Kernel Memory

- Kernel Memory (KM) is a multi-modal AI Service specialized in the efficient indexing of datasets through custom continuous data hybrid pipelines, with support for Retrieval Augmented Generation (RAG), synthetic memory, prompt engineering, and custom semantic memory processing.





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QDrant

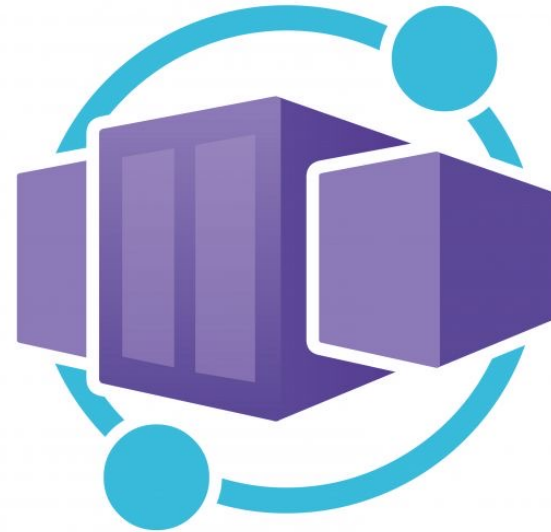
- Qdrant is a **vector similarity search engine** and vector database. It provides a production-ready service with a convenient API to store, search, and manage points—vectors with an additional payload Qdrant is tailored to extended filtering support. It makes it useful for all sorts of neural-network or semantic-based matching, faceted search, and other applications.
- Qdrant is written in Rust 🦀, which makes it fast and reliable even under high load.





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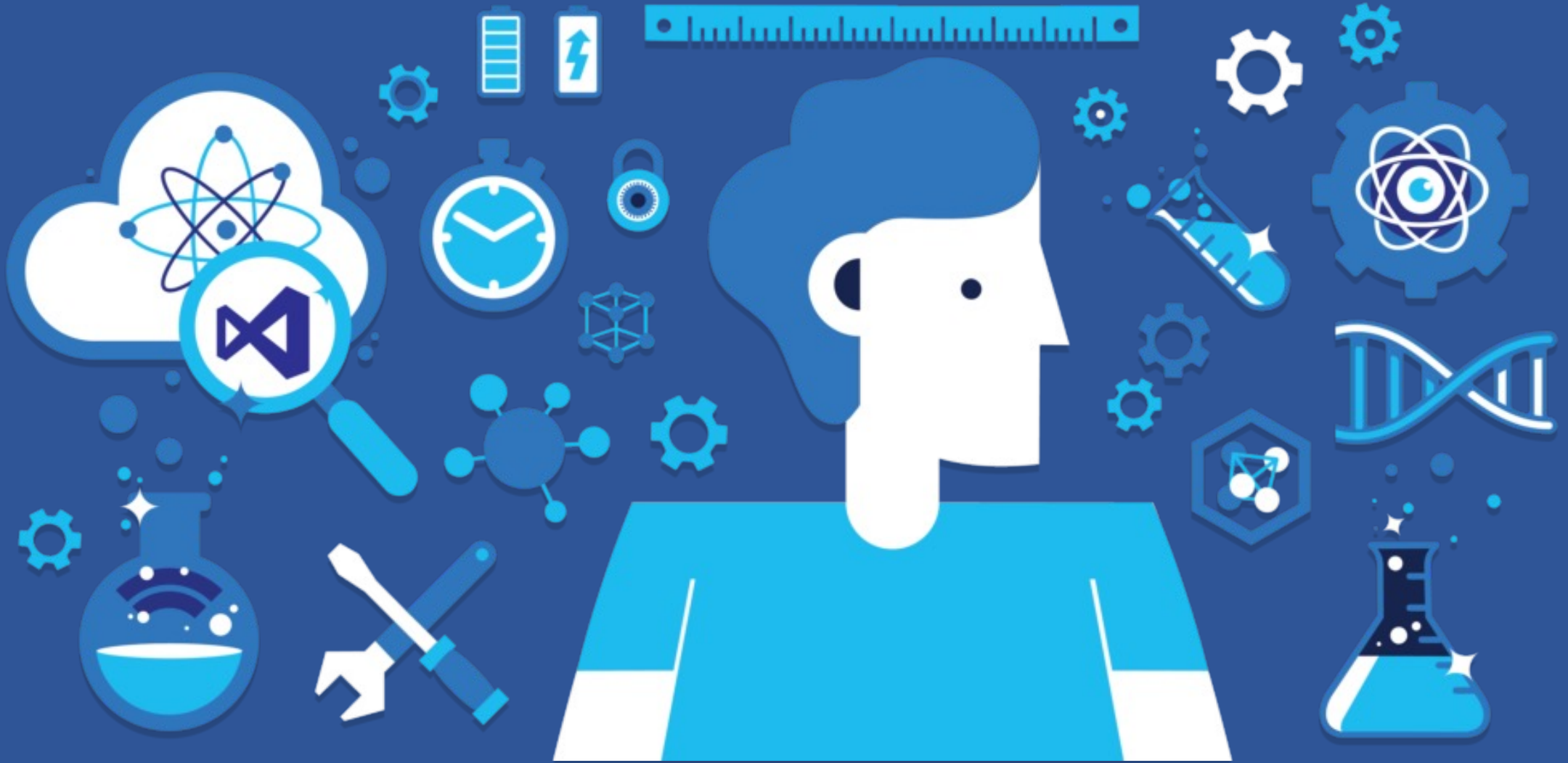
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Demo





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Thank you!



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