



Effective Context Engineering Techniques for AI

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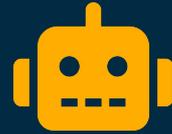


- Graph Theory, Graph Algorithms, & Context Engineering
- Ethics, Governance, Safety, Responsible A.I.
- Taught at universities, high schools, nonprofits and conferences like this one





Question



What happens
when *dozens* of AI Agents
have to work together?



YOU ARE CLEAR TO
DO WHATEVER...

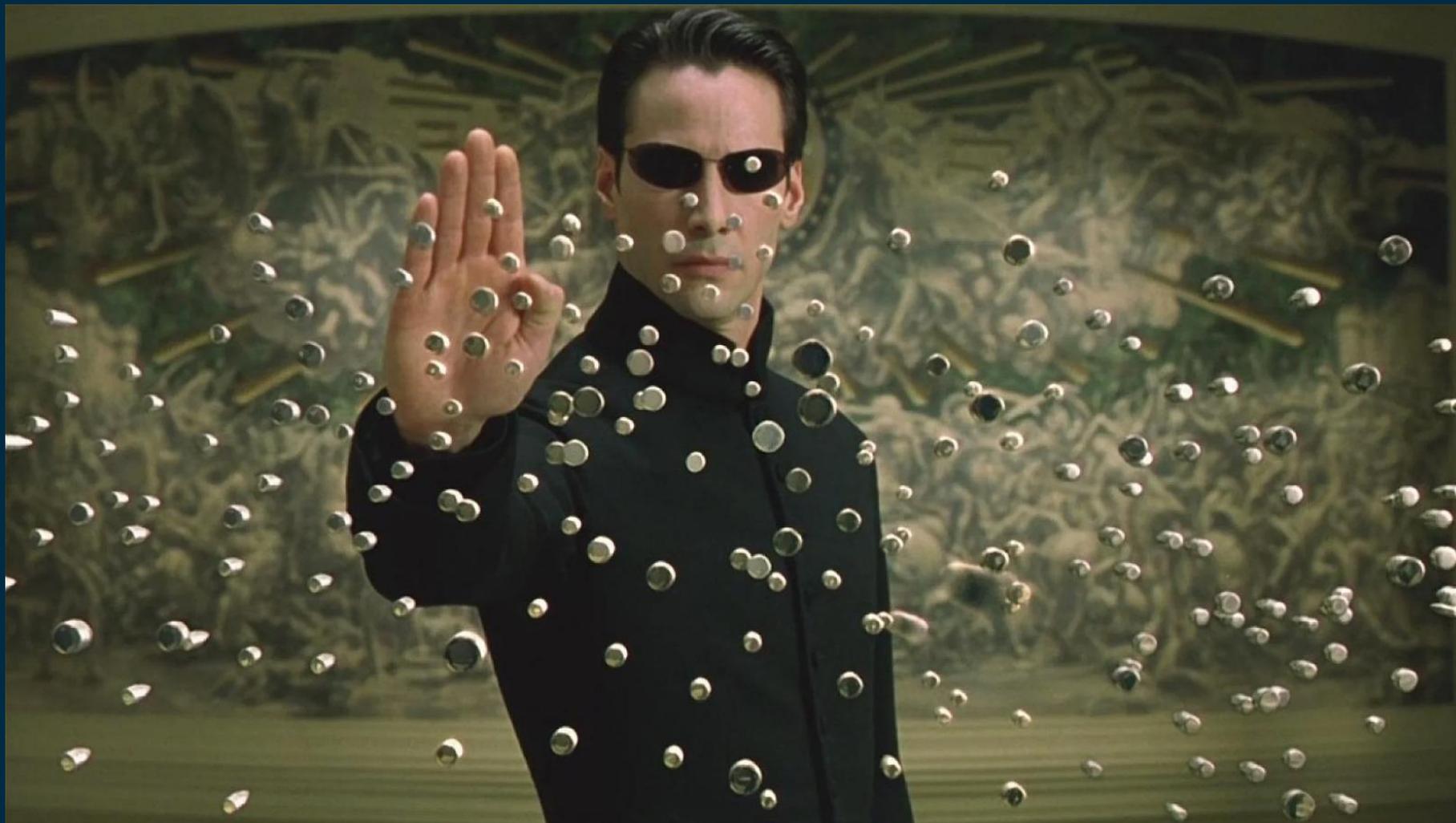


95%
AI pilots
fail

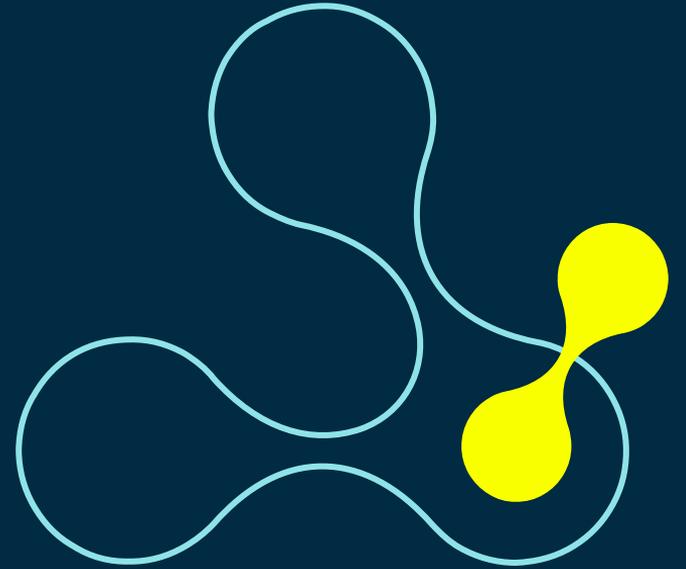


Massachusetts
Institute of
Technology





Context Engineering



Context Engineering



Knowledge Graph-Augmented Context

RAG + Hybrid
Search



Structure and
Order of Context

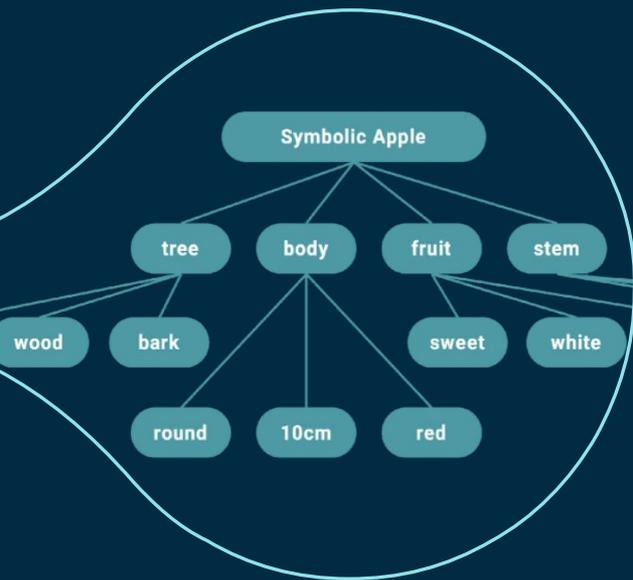
Memory
Management



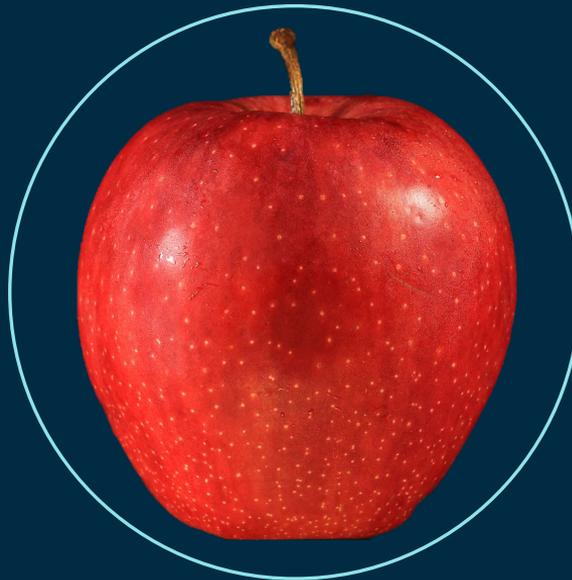
Tools and Function
Calling as Context

To Overcome AI's Black Box Problem We Need Knowledge to be Transparent

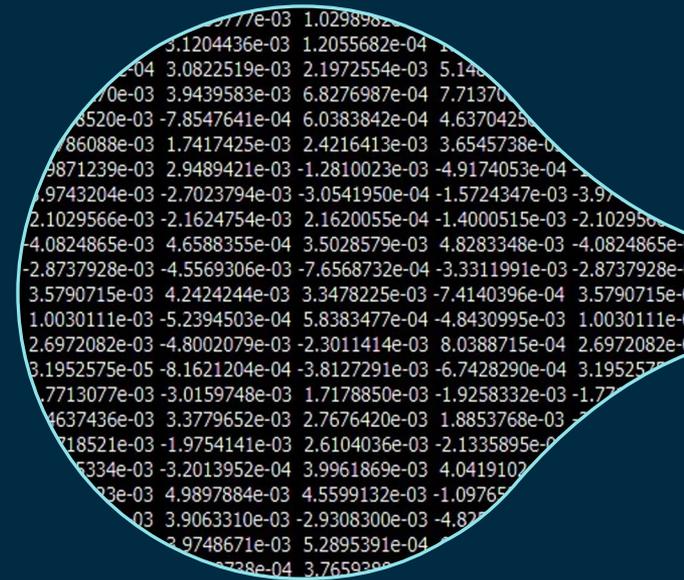
Knowledge Graph View
of an Apple



Human View
of an Apple



Vector View
of an Apple

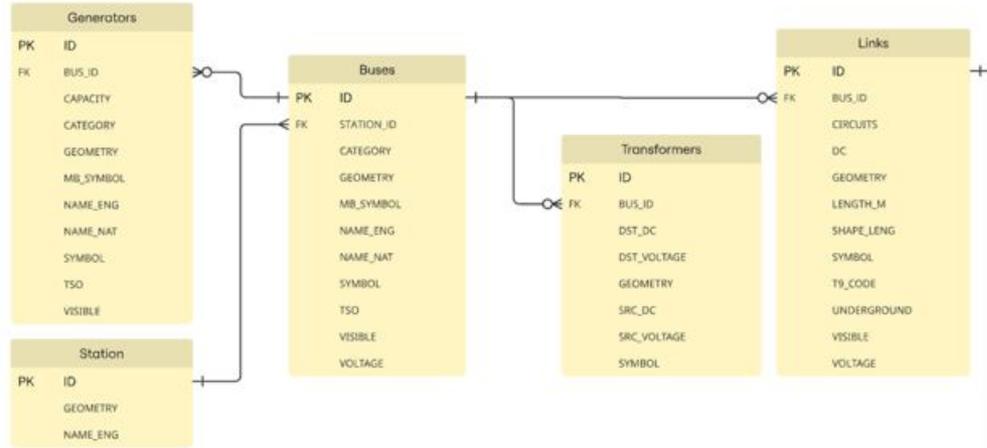


Network Data

Unstructured PDF & JSON



Structured (SQL)

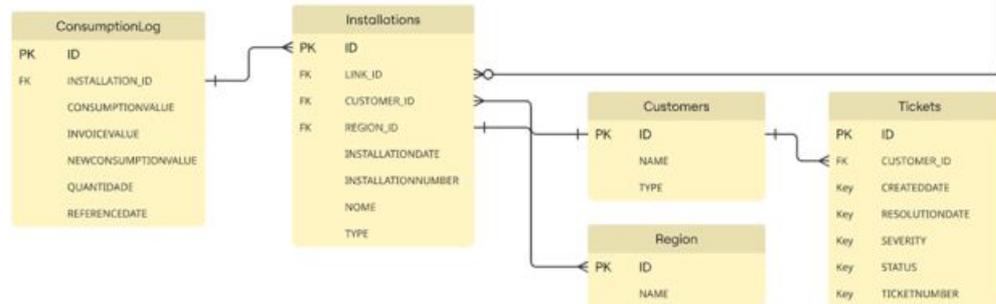


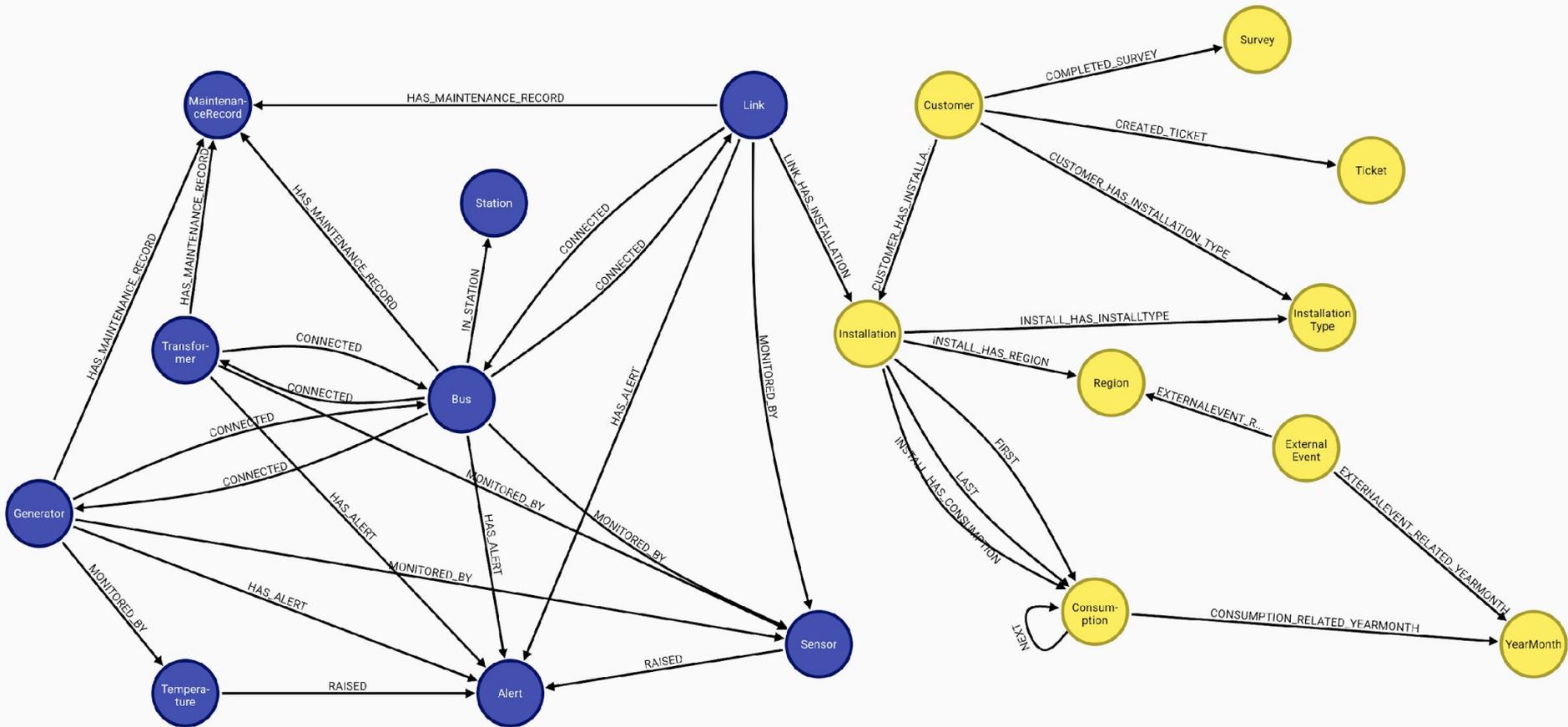
Customer Data

Unstructured PDF



Structured (SQL)



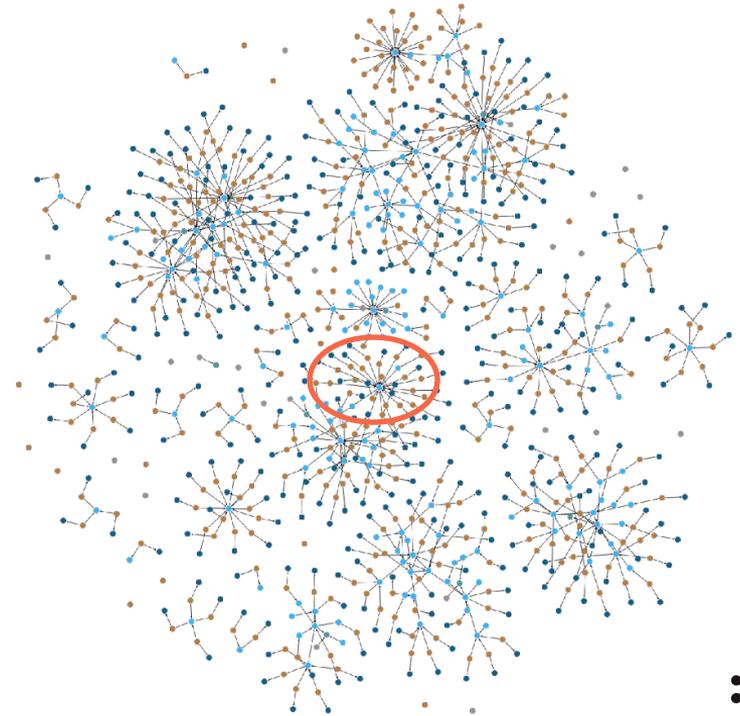
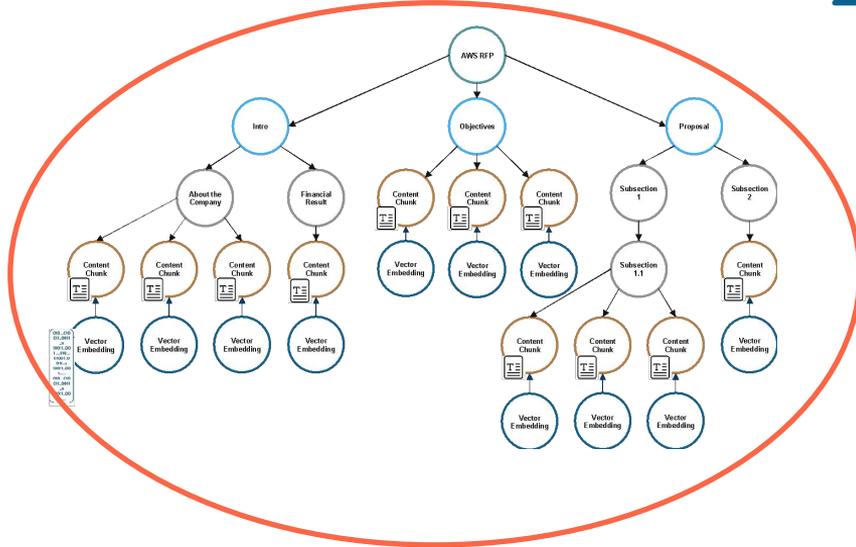


Knowledge Graph-Augmented Context

Document in a KG



Knowledge Graph





Hands on Demo

What do I need?

All the links!

- dev.neo4j.com/workshop-genai-notes

Workshop materials:

- graphacademy.neo4j.com account
- graphacademy.neo4j.com/courses/workshop-genai



**Where do I learn
more?**

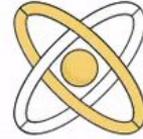


Learn more with



- **Completely Free**
- **Hands-on Courses** teaching Neo4j Fundamentals, Cypher, Drivers and Graph Data Science
- **Curated Learning Paths** catering for everyone from beginners to experts
- **Free Certifications**

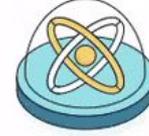
graphacademy.neo4j.com



Introduction to Neo4j Graph Data Science

Gain a high-level technical understanding of the Neo4j Graph Data Science (GDS) library

30 minutes



Neo4j Graph Data Science Fundamentals

Learn all you need to know about Graph Algorithms and Machine Learning Pipelines

1 hour



Path Finding wi

Learn how to find the paths between pairs in the graph

1 hour



Building Neo4j Applications with .NET

Learn how to interact with Neo4j from .NET using the Neo4j .NET Driver



Building Neo4j Applications with Go

Learn how to interact with Neo4j from your Go application using the Neo4j Go Driver

Building Neo4j Applications with TypeScript

Learn how to interact with Neo4j in your TypeScript project using the Neo4j JavaScript Driver

NODES AI 2026

The largest technical community gathering dedicated to Graph + AI

CONFERENCE DATE

April 15, 2026 - Leonhard Euler's Birthday

PRE-EVENT

Five 2 hour AI workshops

March 5, 11, 17, 26 and 31

EVENT

- One day free online conference
- Live technical sessions from community experts
- From: 10:00 am ET / 4:00 pm CET
To: 5:00 pm ET / 11:00 pm CET

AI-FOCUSED SESSIONS IN THREE TRACKS

- Knowledge Graphs and GraphRAG
- Graph Memory and Agents
- Graph + AI in Production

WHO SHOULD PARTICIPATE

Anyone interested in Graphs + AI

REGISTER: neo4j.com/nodes-ai





Thank you!

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