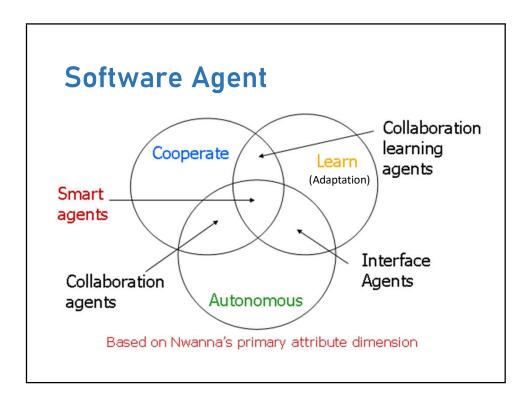
Agent & Messaging

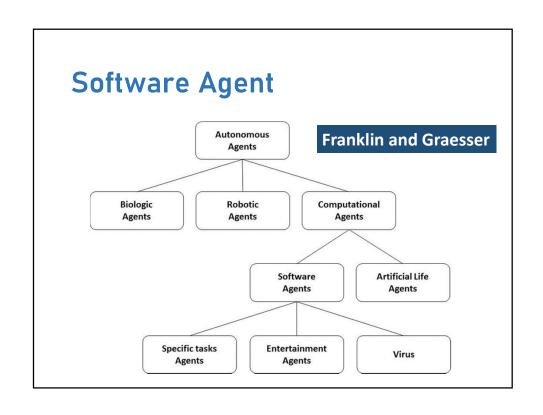
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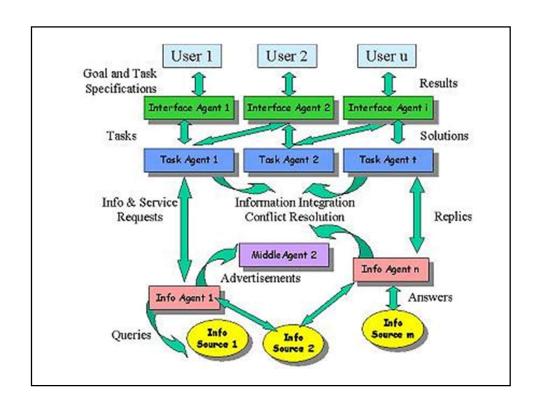


Software Agent

A software agent is an piece of software that functions as an agent for a **user** or **another program**, working **autonomously** and continuously in a particular environment. It is inhibited by other processes and agents, but is also able to **learn** from its experience in functioning in an environment over a long period of time.







Examples

- Google uses software agents (spiders/robots) to periodically visit web sites to index them in google search engine. An e commerce agent finds the best price for a phone model on e commerce sites

- A chatbot is a a computer program designed to simulate an intelligent conversation with human users. Most chat bots simply scan for keywords within the input and pull a reply with the most matching answer from a database.

Messaging

Instant messaging (IM) technology is a type of online chat that offers real-time text transmission over the Internet. A LAN messenger operates in a similar way over a local area network. Short messages are typically transmitted between two parties, when each user chooses to complete a thought and select "send". Some IM applications can use **push technology** to provide real-time text. More advanced instant messaging can add file transfer, clickable hyperlinks, Voice over IP, or video chat.

Messaging Protocols

Protocol	Publisher
IRC	Jarkko Oikarinen
MSNP	Microsoft
OSCAR (AIM, ICQ)	AOL
Signal Protocol	Signal Messenger

Protocol	Publisher
SMS/MMS /EMS/Call	Friedhelm Hillebrand
Skype	Skype
YMSG	Yahoo!
Gadu-Gadu	GG Network

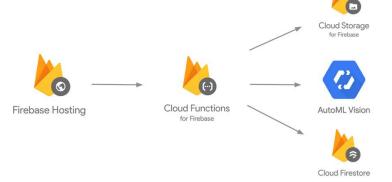
Messaging Clients

Client	Creator
AOL Instant Messenger (AIM)	AOL
Google Allo	Google, Inc.
ICQ	Mail.Ru
Facebook Messenger	Facebook, Inc.

Client	Creator
Line	LINE Corporation
WeChat / QQ	Tencent Holdings
Skype	Skype Technologies
FaceTime	Apple Inc.

Firebase

Firebase is Google's mobile platform that helps you quickly develop high-quality apps and grow your business.



Firebase Cloud Messaging

Firebase Cloud Messaging (FCM) is a crossplatform service that handles the **sending**, **routing**, and **queueing** of messages between server applications and mobile client apps. FCM is the successor to Google Cloud Messaging (GCM), and it is built on **Google Play Services**.



