AIBORG by Free!Solutions

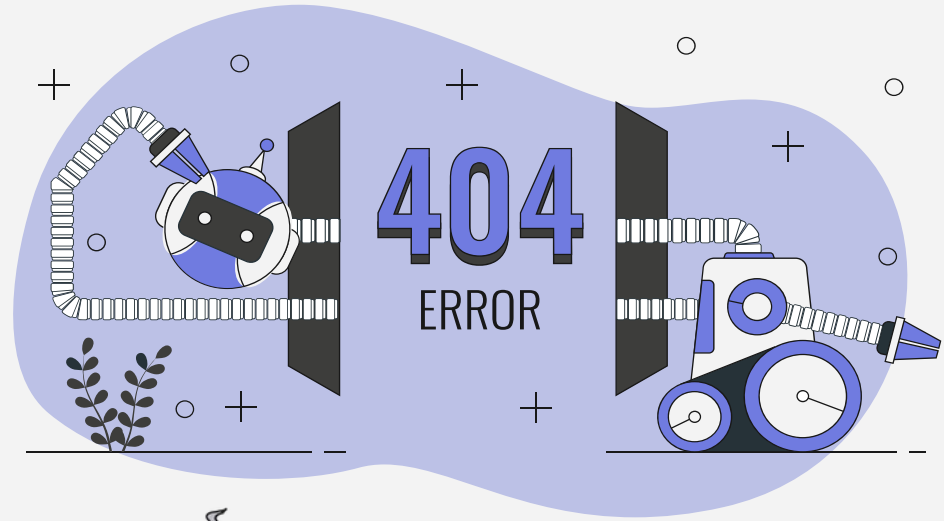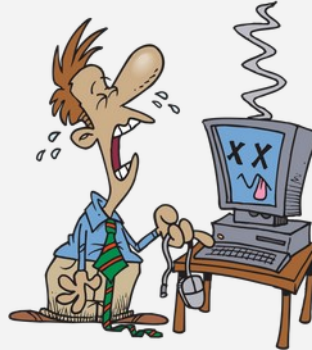## your on premise AI packaged solution

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aiborg desktop is your complete on premise ready-to-use solution (hardware, software and expertise), for all your AI/voice/visio applications and interactions (and more).
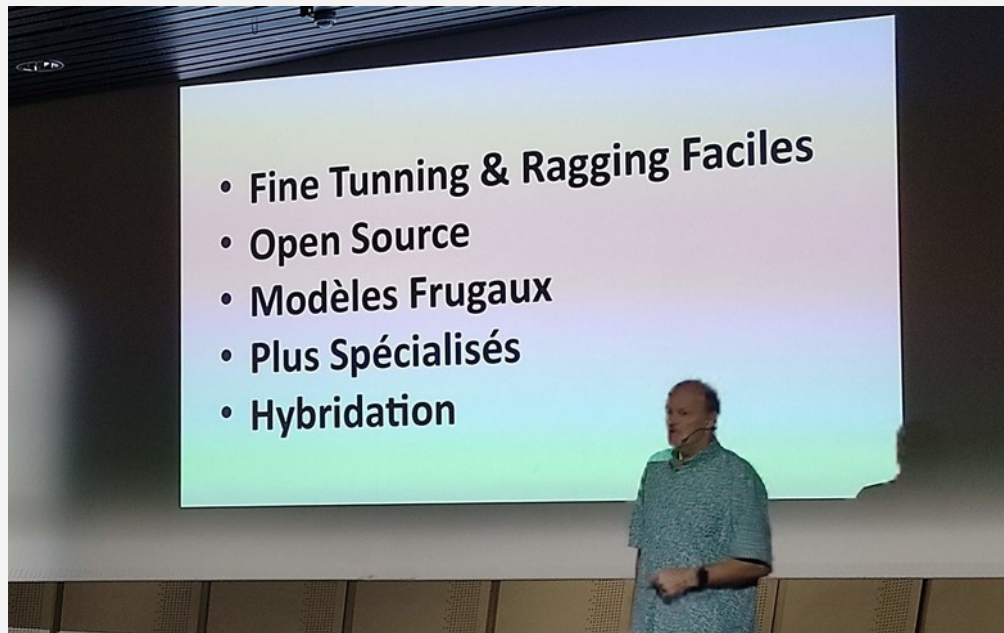
Pain points?

- Which Agent(s)
- Which LLM(s)
- RAG
- Tensors
- Contextes
- Token's
- Security
- Data
- Hardware
- Delays, poor achievements
- Latencies …

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Our goals aligned with Luc key takeaway.

Luc Julia - Chief Scientific Officer - Renault Group
Conclusions of his keynote «Mythes et réalités des IA génératives et générales, et Fireside chat sur l'IA open source», #OSXP december 2024

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LLM + voice & visio immediately available

- Zero API/token costs, no usage limits;

- Video conferencing integration;

- Integration with realtime Chat/Visio/VoIP technologies;

- Docker technology without cloud;

- Private jitsi server with openfire.

- Ultra flexible for easy LLM changes;

- Immediately usable for simple functions;

- Translations, summaries, questions & answers;

- Basic voice assistant, internet search bot.

Everything on site, functional and under control.

Company creation

Since 2006, Free-solutions sàrl is offering you a way to take a total control over all your interactions and discussions !

Provide close privileged collaboration with developers and experts.

Demonstrate a proven and established business model.

Provide Free Software, definitions from the **FREE SOFTWARE FOUNDATION**

To regain a total control of all your voice/visio/data interactions.

Company expertise

Free-Solutions Sàrl has been providing IT services based entirely on FREE solutions (with no external service providers or software).

On premise, SaaS or dedicated server for a total control of all your chat, audio, visio and other communications...

Free-solutions has been a driving force behind the **Chat XMPP Openfire** opensource project since its creation in 2002.
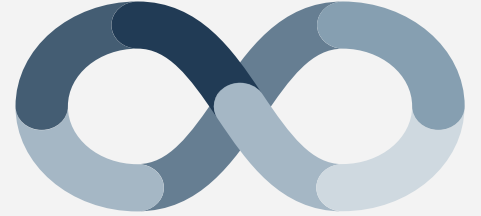
Company offers

FREE and value-for-money solutions:

- No need third parties such as GAFAM's;

- No need CLOUD;

- FREE because your communications are secure and private;

- FREE because your data are not used neither managed by third parties;

- FREE because 100% of the code used is FREE;

- Sovereignty and eco-friendly.

Why aiborg ?

Integrates AI naturally with chat/voice and therefore realtime technologies;

AI / XMPP / webRTC & simultaneous translations;

Combine webRTC with AI gives you the multimedia capabilities with LLM's;

Lake of standard hardware offers on the market matching with our technical requirements;

Build our AI aiborg desktop in 2024, complete, powerful, ready to use and using all these technologies.

For those who need LLM's and a complete AI environment on site.

aiborg desktop in brief

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An AI work properly in inference mode (use),
thank's to the right hardware:

- Powerful GPU: **48GB** min
- Ultra-fast disks with **6 TB** capacity: **nvram**
- Memory for RAMDRIVES: **128GB** min
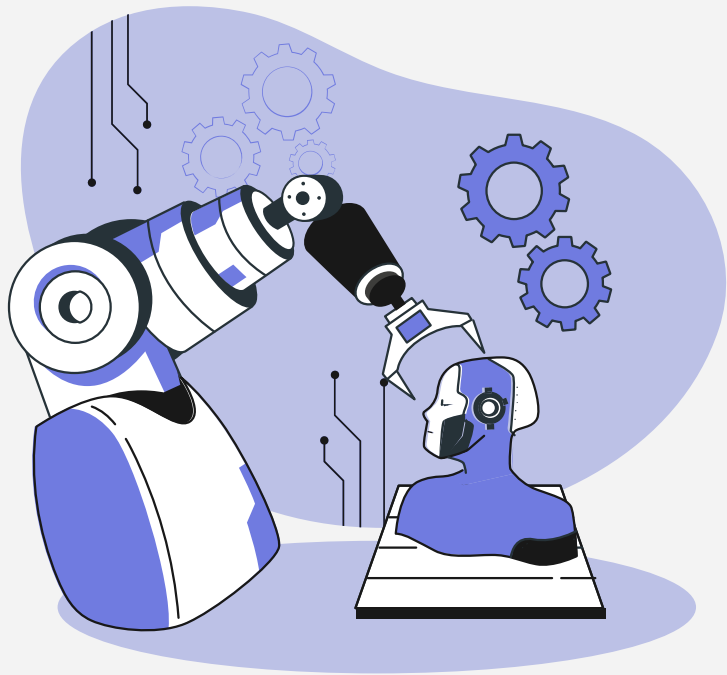- CPU, the most powerful possible : **I9 (32 cores)**

...on premise
LAN/WAN/DMZ

○ OS, kernel modules, kernel tuning, OS tuning,
○ Compilation of C code, libcurl, ffmpeg, json, python,
○ **Devops docker with GPU**,
○ nvidia drivers installed and configured, source code
○ and compilation of llama.c for LLAMA3...

Components	Supplier	Model	Qty
Processor 32 cores	Intel	i9-13900K	1
Motherboard	Supermicro	X13SAE-F	1
Graphics card 48Go GPU	nvidia	GeForce RTX 4090	2
Liquid Cooling	Corsair	Hydro H150i iCUE Elite	1
Desktop case	Corsair ou Thermaltake Level 20	dark 900	1
Disk 16To	Samsung	990 pro	4
RAM 128Go	PHS-memory	32GB	4
Power supply	Corsair	1500W	1
Others	Thermal paste, adapters, tools, 2°Lan dual Gb etc...		

ATTENTION indicative only, will be confirmed when order is received.

Software overview
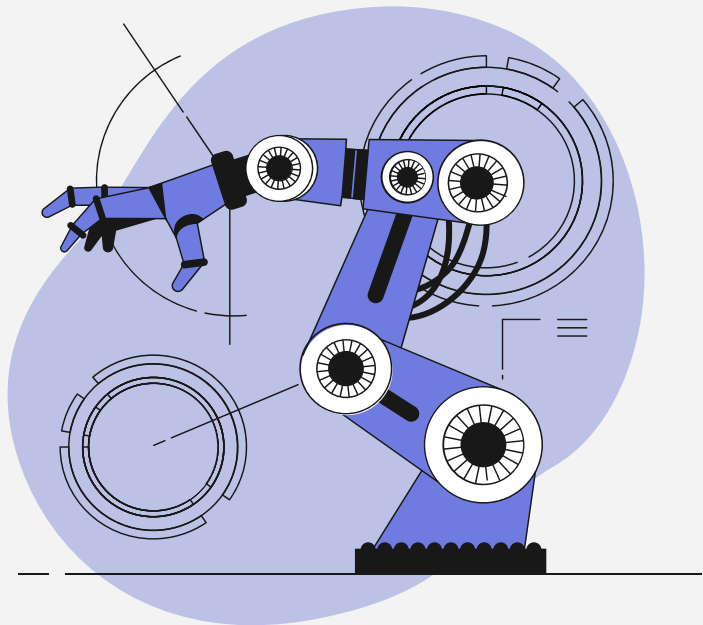
Realtime technologies, XMPP, Jitsi, webRTC

igniterealtime.org

LLM expertise: Huggingface, tuning and adjustments, prompting (Llama3, Mistral, qwen, Lucie, DeepSeek...).

C programs for RAG: Internet, DB, webRTC, AI, vocal bridges...
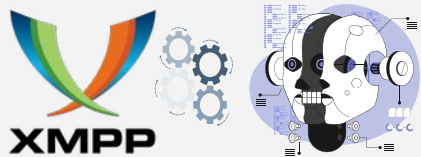
And many other FREE expertise, ffmpeg, curl etc...

Software details

- BIOS/UEFI
- Kernel modules GPU : nvidia or open nvidia
- OS : Linux Ubuntu/Debian
- Containers : Linux + Docker
- llama.cpp : LLM server
- Text 2 Speech : gpu docker servers
- Speech 2 Text : Linto gpu servers
- Openfire and jitsi
- Progressive mobile application
- AI web client
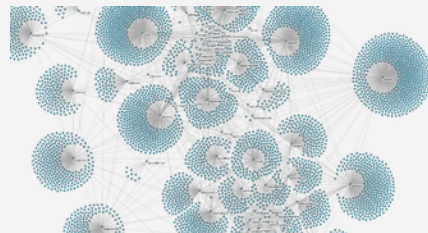- Integration with Chat XMPP & conversation, Padé, Jitsi

XMPP + AI benefits

- AI is a chatbot, just add it to your contacts;

- Your chatbot 🦙 can be a member of a Jitsi visioconference;

- Your chatbot can interact by voice 🎧 and be a member of an audio conference;

- Your chatbot knows how to answer a phone call 📞 JITSI+SIP+AI;

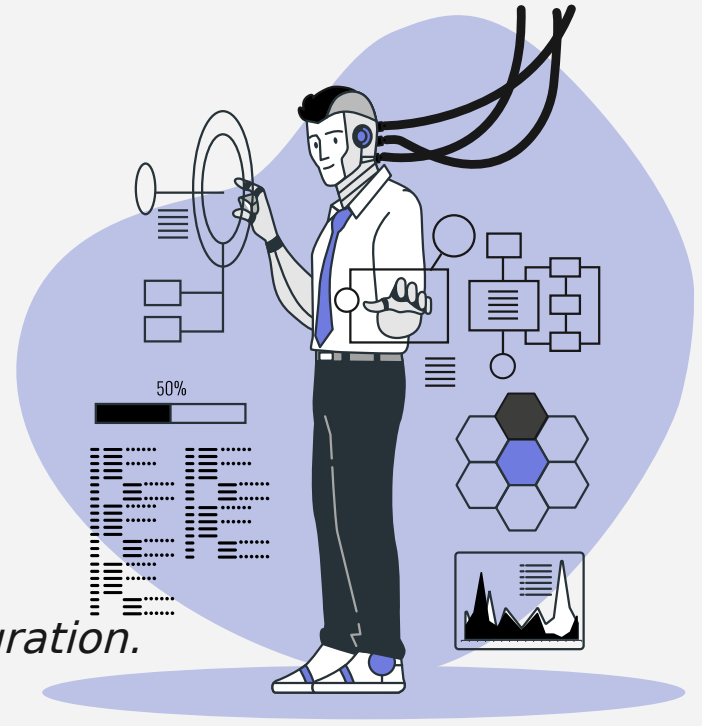- Your chatbot can have multiple connexions together with XMPP Fediverse neural Internet network.

Distribute and control your AI chatbots, both within the company and on the Internet.

Fonctions inventory

○ ○ ○ ○ ○

- ChatBot 🤖 💬

- ChatBot VoIP 🤖 💬 + 📞

- ChatBot Visioconference 🤖 💬 + 🎥

- ChatBot Audioconference 🤖 💬 + 🗣️

- Multilingual translations 🇬🇧 🇩🇪 🇮🇹 🇫🇷 🇪🇸 (!)

- Questions ❓ Answers 🗣️ 👌

- Self-discussion 🦙 🔮 👂 🦙 🗣️ 🧍 🦙 👏

And prompt, API and more...all you need for integration.

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Reasons why it's so damn critical

- All your data stays on premise;

- Transcriptions generated on your infrastructure, neither on Google nor on Apple;

- Experiment all your expectations, with complete peace of mind, even with confidential information;

- Instantaneous access to ultra-fast voice and AI "**0-latency**", thanks to local and integrated visioconference & webRTC;

- Immediately AI available as a simple chat contact and as participant in a visioconference, thank's XMPP.

Everything that works, developed and validated on your aiborg desktop can be deployed very quickly in datacenter + clusters + HA

In action...

aiborg _by appointment_ on https://aiborg.free-solutions.ch (voice)
https://aiborg.free-solutions.ch:7443/aiborg (visio)
https://chatgpt.free-solutions.ch/index-de.html (prompt)

- https://green-spider.free-solutions.org/AI_VIDEOS/ Videos

- Visioconferences & private chat 🇨🇭 https://www.free-solutions.org

- Collaborative drives, zero trust, cryptpad 🇨🇭 https://cryptpad.free-solutions.ch

- LINUX🐧 replacement OS for laptops and desktops
https://github.com/ClaudeStabile/GREEN_SPIDER 🇨🇭

- Mastodon servers, private enterprise instances
https://mastodon.free-solutions.org 🇨🇭 & https://toot.igniterealtime.org

In case of a cyber attack

(shutdown of your IT)

- A complete, ready-to-use crisis communication solution:
  - Visio and chat platform;
  - Ready-to-use accounts for key players (open to the outside world via a dedicated Internet connection on DMZ);
  - Help of your trained AI for this mission.

- With Cryptpad*, edited by ✕WIKI
  - Ability to store and organize all your "cyber crisis" documents;
  - Ability to collaborate and write in a dedicated, extremely secure office environment.

* Cryptpad is an opensource software published by XWIKI SAS free-solutions has been integrating it for over 10 years. It can be installed as an option, activated or not, commissioning and training on request (project mode).

CryptPad

Investment

25k€/kCHF VAT excluded

- Delivered/billed from 🇨🇭

  - Hardware (approx. 10k€), delivery time, installation, commissioning, from 4 to 5 weeks.

  - Services (15k€), assembling, installations, testing, OS environment, virtualization and software, validations (includes 3 days of transfer of expertise for adminsys, developers and project managers).

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Thank you

Questions?

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