

Muse MemorIa

*Giving a voice to the past
— through conversational memory*

*Interactive cultural avatars
for heritage-driven brands and institutions*



Visitors want to experience culture *not just read wall texts*

- **Young visitors:** static content, boring, no interaction
- **International visitors:** language still a barrier



The Opportunity

- 65%* of visitors already expect AI as a complement to traditional cultural experience.

**Source: 2025 Museum Audiences Barometer – Institut GECE*

*The technology is ready
The use cases are real
The moment is now*



From animated storytelling to live conversation

Muse MemorIA, 2 levels

1. Animated Storytelling



Scripted AI videos

Animated avatar, scripted,
multilingual.

Immersive but not interactive



From animated storytelling to live conversation

Muse MemorIA, 2 levels

2. Live Conversation



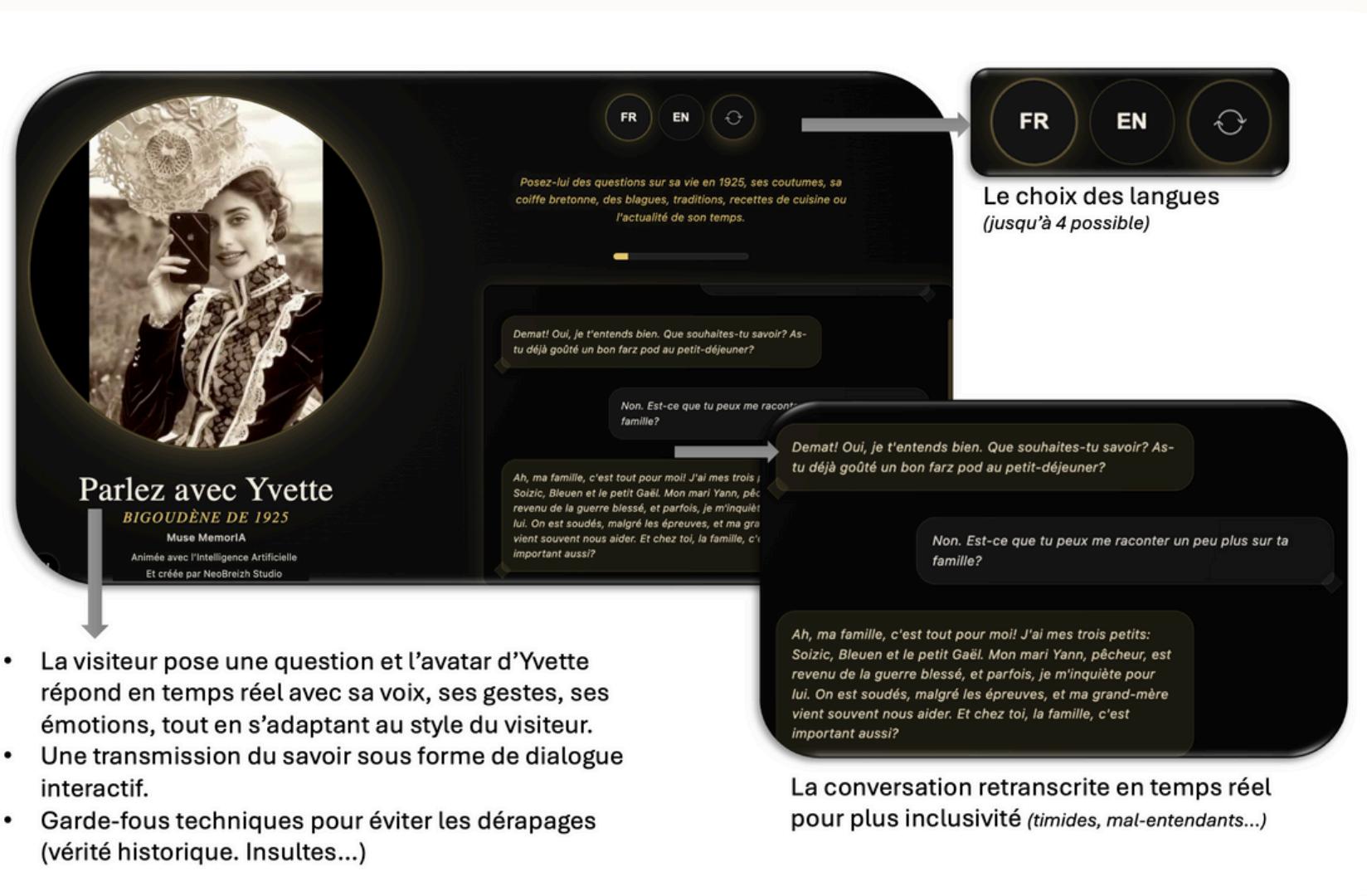
... **Interactive dialogue
in real-time**

**Real-time dialogue with visitors.
Voice, face, conversational AI.**

*This is the
challenge!*

Interactive Experience

An Immersive conversation with the past



The screenshot shows a dark-themed interface for an interactive experience. On the left, there is a circular portrait of a woman in historical attire, identified as 'Parlez avec Yvette BIGOUDÈNE DE 1925'. The text 'Muse Memorial' and 'Animée avec l'Intelligence Artificielle' is visible below the portrait. On the right, there is a language selection interface with buttons for 'FR', 'EN', and a refresh symbol. The text 'Le choix des langues (jusqu'à 4 possible)' is displayed. Below this, a conversation transcript is shown in French, with a speech bubble from the user asking about Yvette's life in 1925, and a response from Yvette about her family. A large arrow points from the main interface down to a list of bullet points.

- La visiteur pose une question et l'avatar d'Yvette répond en temps réel avec sa voix, ses gestes, ses émotions, tout en s'adaptant au style du visiteur.
- Une transmission du savoir sous forme de dialogue interactif.
- Garde-fous techniques pour éviter les dérapages (vérité historique, Insultes...)

La conversation retranscrite en temps réel pour plus inclusivité (*timides, mal-entendants...*)

- **A live conversation, not a scripted playback**
- **Knowledge shared through dialogue**
- **Real-time voice and embodied presence**
- **Multilingual and inclusive by design**
- **Grounded in historical sources and archives**

Why *live conversation* breaks today's AI systems?

- Short context windows → loss of narrative continuity
- Heavy API orchestration → latency + cost
- Classic RAG → relevant or fast – rarely both

“The challenge is not generating answers. It's respecting sources and conversational experience in real time.”

From Memory to Dialogue: Why a RAG Is Not Enough?



RAG



Perfect for knowledge access:

- *Searching relevant documents*
- *Retrieving matching passages*

Good for : historical facts, archives, rules, biographies, cultural context



Does not understand:

- *tone*
- *guardrails*
- *character consistency*
- *conversational state*
(who's speaking, ON/OFF speech, etc.)

Not good with :sense of time, state, or interaction.



A RAG reads documents. It does not manage dialogue.

Research Challenge

Beyond prompt engineering.

This is a system architecture innovation

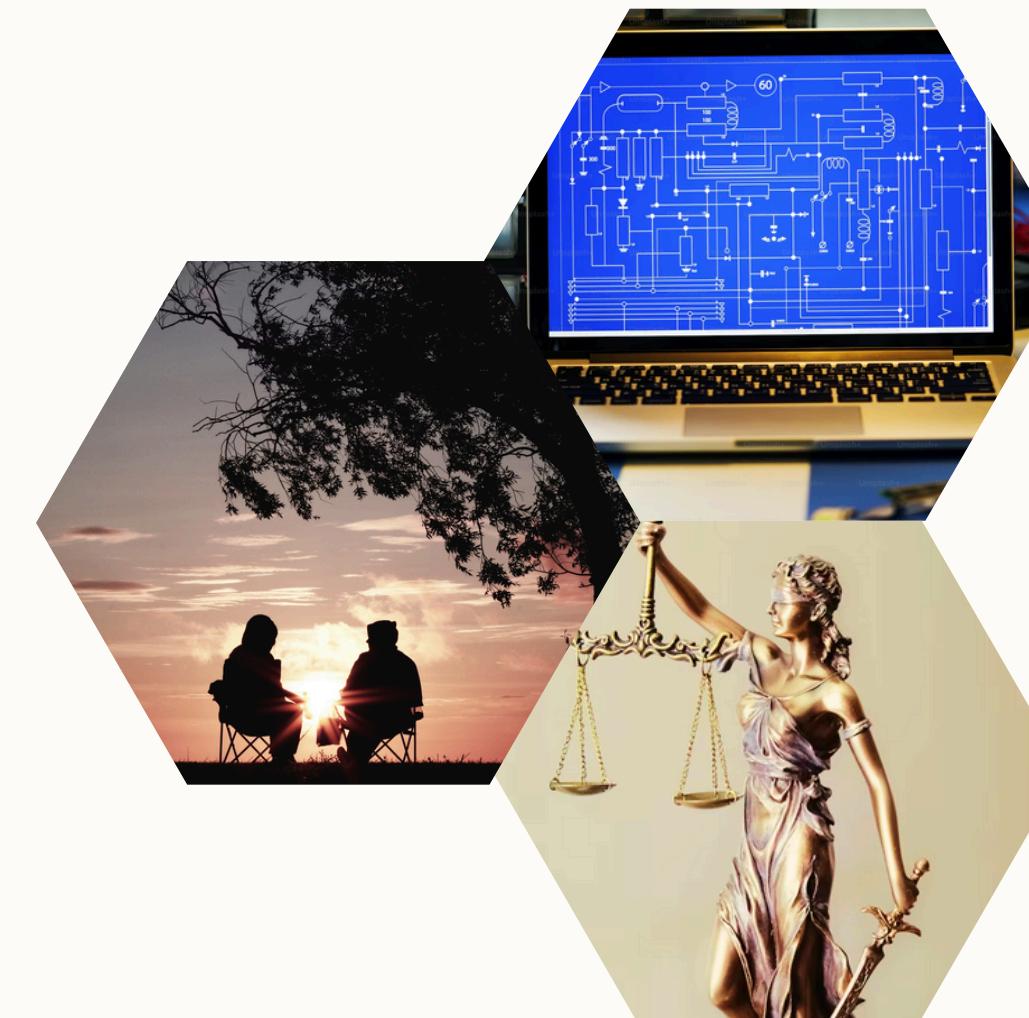
*How can we design
a **conversational memory** system
that is **long-term, knowledge-based** and **low-latency**
for **real-time cultural avatars**?*



A multi-faceted challenge

at the cross-road of tech, ethics and design

Conversational Design
Linguistic, speech pacing,
user comfort in dialogue

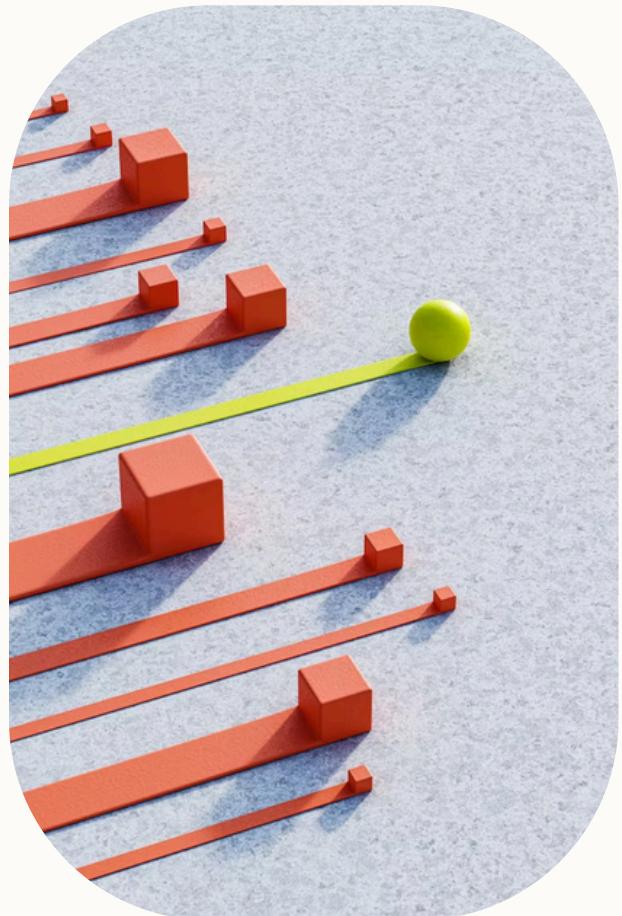


AI & Systems engineering
Memory architecture, latency
constraints, retrieval strategies

Ethics & legal frameworks
Historical accuracy, bias,
source traceability,
responsible interaction

Expected Outcome

1 week sprint



- ***A first prototype of a conversational memory layer***

*Tested on a real cultural avatar
with a large, structured knowledge base*

- ***Objectives: latency / relevance / conversational ergonomy***

And a path toward a commercial product

Background:

- 25+ years at the intersection of **Data, AI and Business**
- **Strategist, creative technologist and artist**
- International background (Mexico, Spain, Amsterdam)
- Former **director roles in Data & AI** (Capgemini, Philips)
- **Now entrepreneur** launching Muse MemorIA, with cultural AI products already in the Market.



Carole Gendron

Founder — NeoBreizh Studio

Creative AI, cultural avatars
& interactive memory

Why I'm doing this?

- To build **meaningful, accessible and responsible AI** at the intersection of culture and human experience.



NeoBreizh
Techno-Creative Studio

*"I build AI to serve memory,
not replace it".*