



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



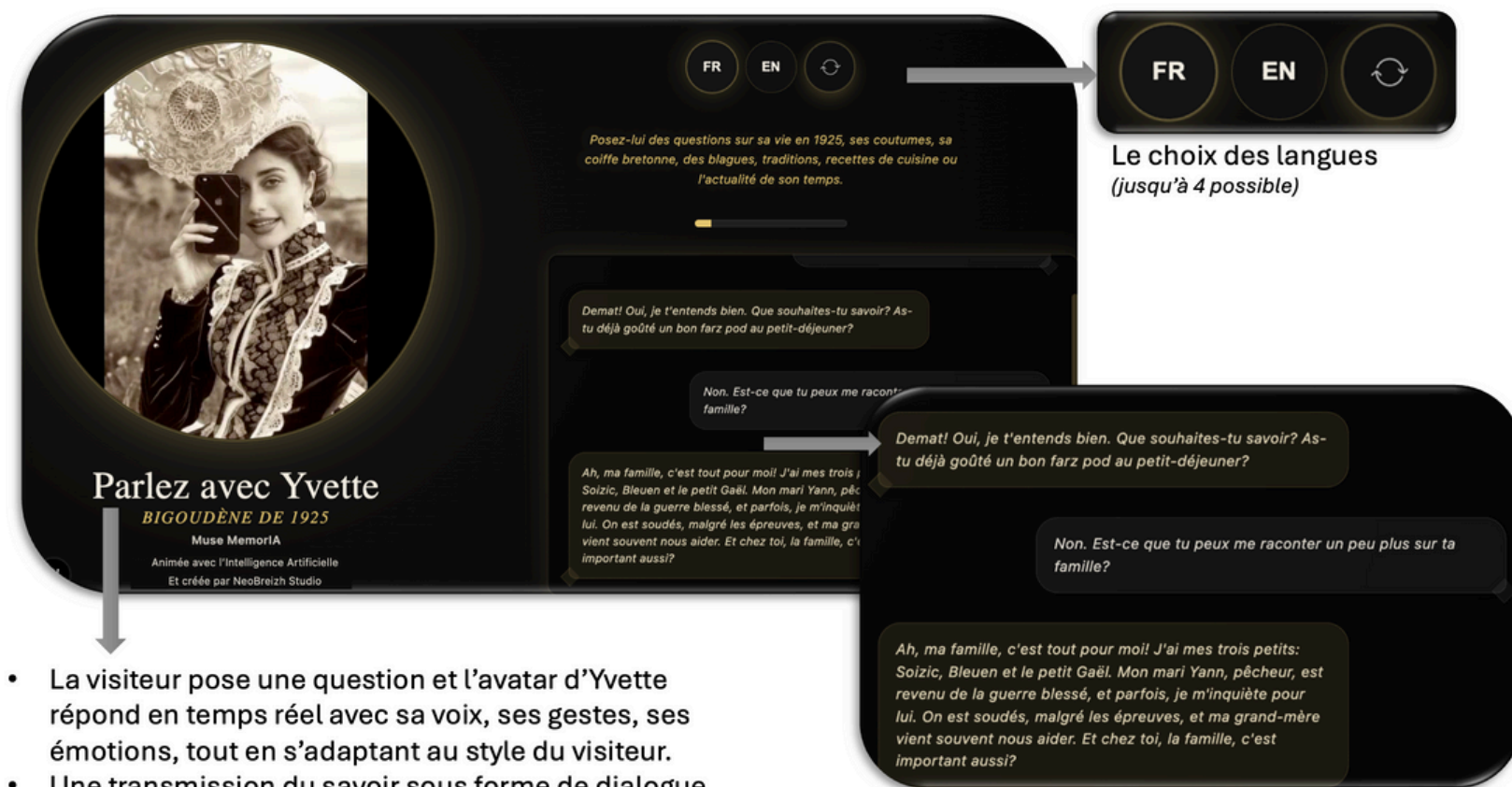
**Interactive dialogue
in real-time**

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

***This is the
challenge!***

Interactive Experience

An Immersive conversation with the past



- 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*
- *conversationnal 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

AI & Systems engineering

*Memory architecture, latency
constraints, retrieval strategies*

Conversational Design

*Linguistic, speech pacing,
user comfort in dialogue*

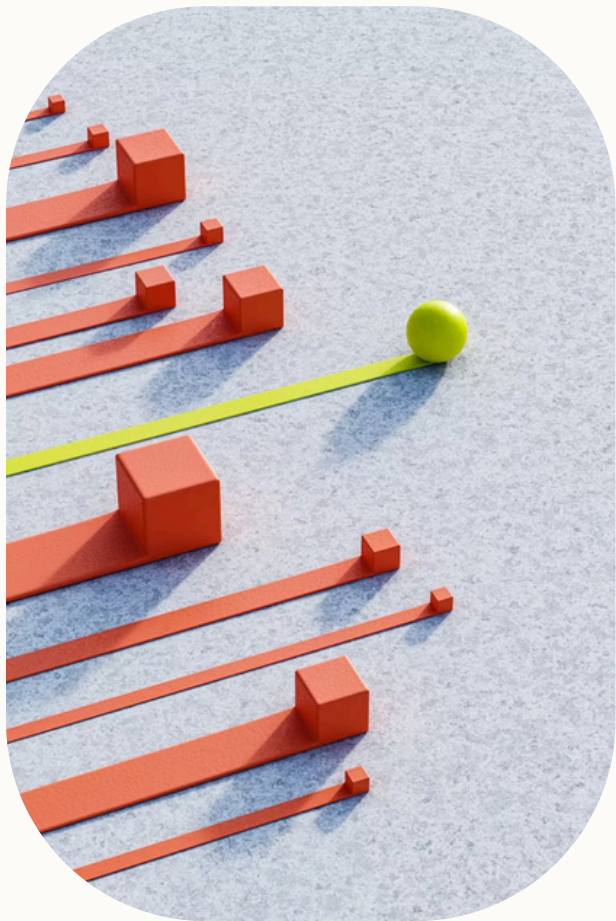


Ethics & legal frameworks

*Historical accuracy, bias,
source traceability,
responsible interaction*

Expected Outcome

1 week sprint



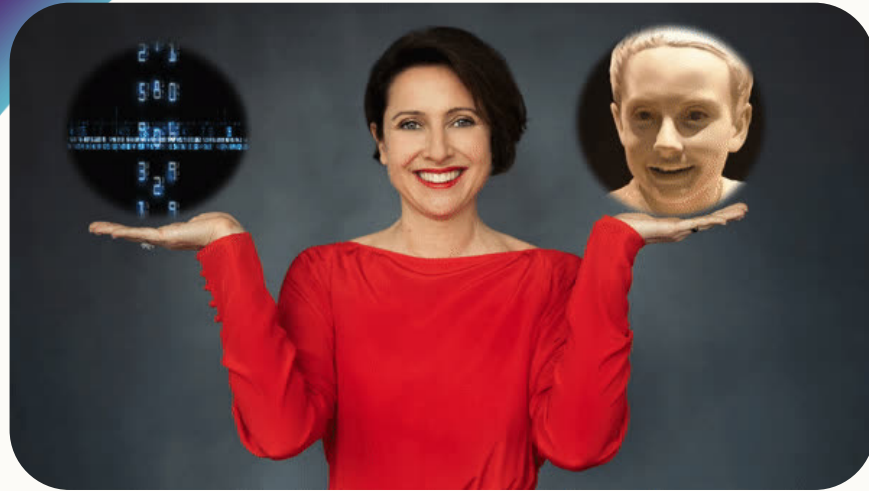
- ***A first prototype of a conversational memory layer***

Tested on a real cultural avatar

with a large, structured knowledge base

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

*And a path **toward a commercial product***



Carole Gendron

Founder — NeoBreizh Studio
Creative AI, cultural avatars
& interactive memory



NeoBreizh
Techno-Creative Studio

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.

Why I'm doing this?

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

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