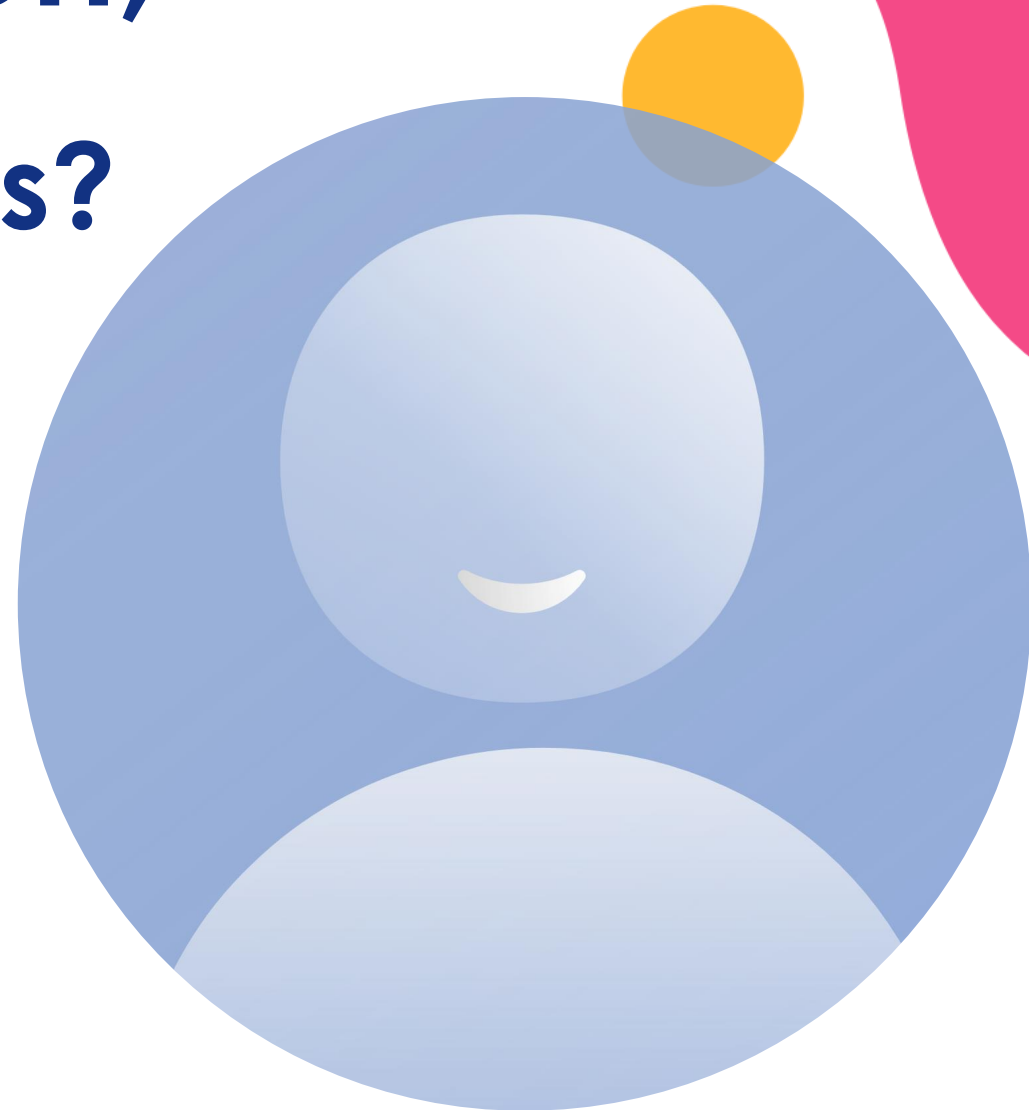


Chatbots in education, What options for teachers?

Unlocking the Potential of Chatbots for
Enhanced Learning

7 February 5:30 to 6:30 PM (Brussels time)

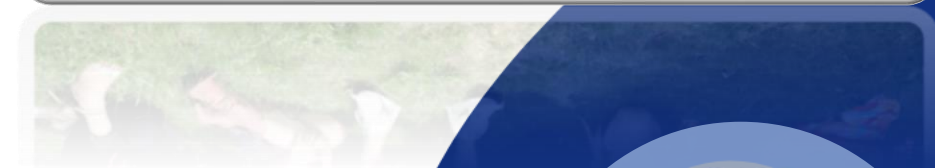
Presented by Dorian Venderick



About us...

Logopsycom is an educational innovation centre in Mons (Belgium) that creates and uses alternative methods or tools (digital or otherwise) to support schools, vocational training centres, educational organisations, young people and parents.

It was originally set up as a care company specialising in learning disorders in young people, such as 'Dys' (Dyspraxia, Dysphasia, Dyslexia, etc.). So we're still working on content accessibility and inclusion.



About our work...

We have been supporting inclusive education for years



72+

International projects



208+

Cooperating
partners



8

Years of experience



Some of our projects...

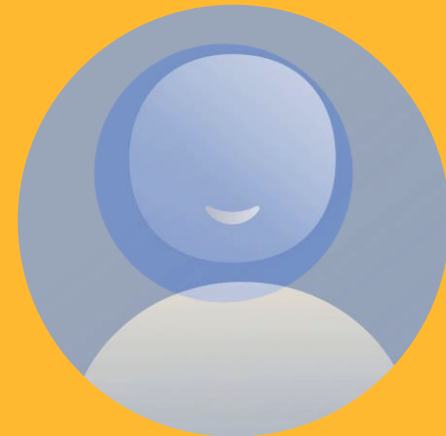


Today's plan



Chatbots in education, What options for teachers?

- What is a Chatbot?
- Scripted Chatbots and Generative Chatbots: what are the main differences and their pedagogical implications
- Static, scripted Chatbots (the traditional chatbots): what they are, how to use them and how to create one
- Dynamic context-aware generative chatbots (the new-comers): what they are, how to use them and how to create one
- Conclusion: which approach should you use?
- Questions and answers session





What is a chatbot?



What is a chatbot?


A software application designed to **simulate conversation with human users.**

They are sophisticated systems designed to **simulate human-like conversations.**

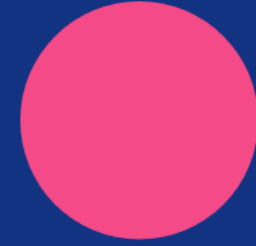
Used in a wide range of settings:

- Customer service
- Entertainment
- Education
- ...



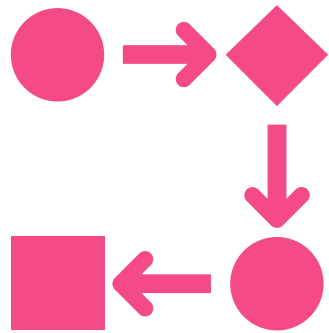


**What are
the main
types?**



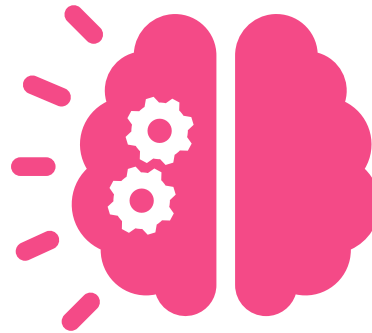
2 main types

Scripted,
Sequential (static)
Chatbots



The more
traditional chatbots

Generative
(Dynamic)
Chatbots



Recently
popularised
(ChatGPT, Google
Bard, ...)





Scripted Chatbots



Static, Scripted Chatbots

What is interesting about scripted chatbots in education?

- Useful for Introducing Complex Concepts curated by teachers
- Informal Learning
- Autonomous Learning, with content selected by teachers
- Interactive
- Media Integration
- Accessibility and Inclusivity
- Personalisation
- Customizability and Control



A few examples from our projects



STEMBOT



Co-funded by
the European Union





stembot_project

Instagram

31 followers · 2 posts

You don't follow each other on Instagram

[View Profile](#)

Tap to send a question suggested by stembot_project

[start](#)

 Message...   

pour pouvoir mieux distinguer les différentes solutions eau-sucre 🌈

Étant donné que l'expérience implique la création d'une série de solutions eau-sucre avec différentes densités, le colorant alimentaire facilite le fait de voir les couches des différentes solutions lorsqu'elles s'empilent les unes sur les autres à cause de leurs densités différentes.

Donc, en résumé, le colorant alimentaire est une aide visuelle pour démontrer le concept de densité et pour pouvoir distinguer les différentes solutions eau-sucre dans l'expérience 😊



Prêt/e pour la question suivante ?
💪

C'est parti !

 Message...   

STEMBOT.EU

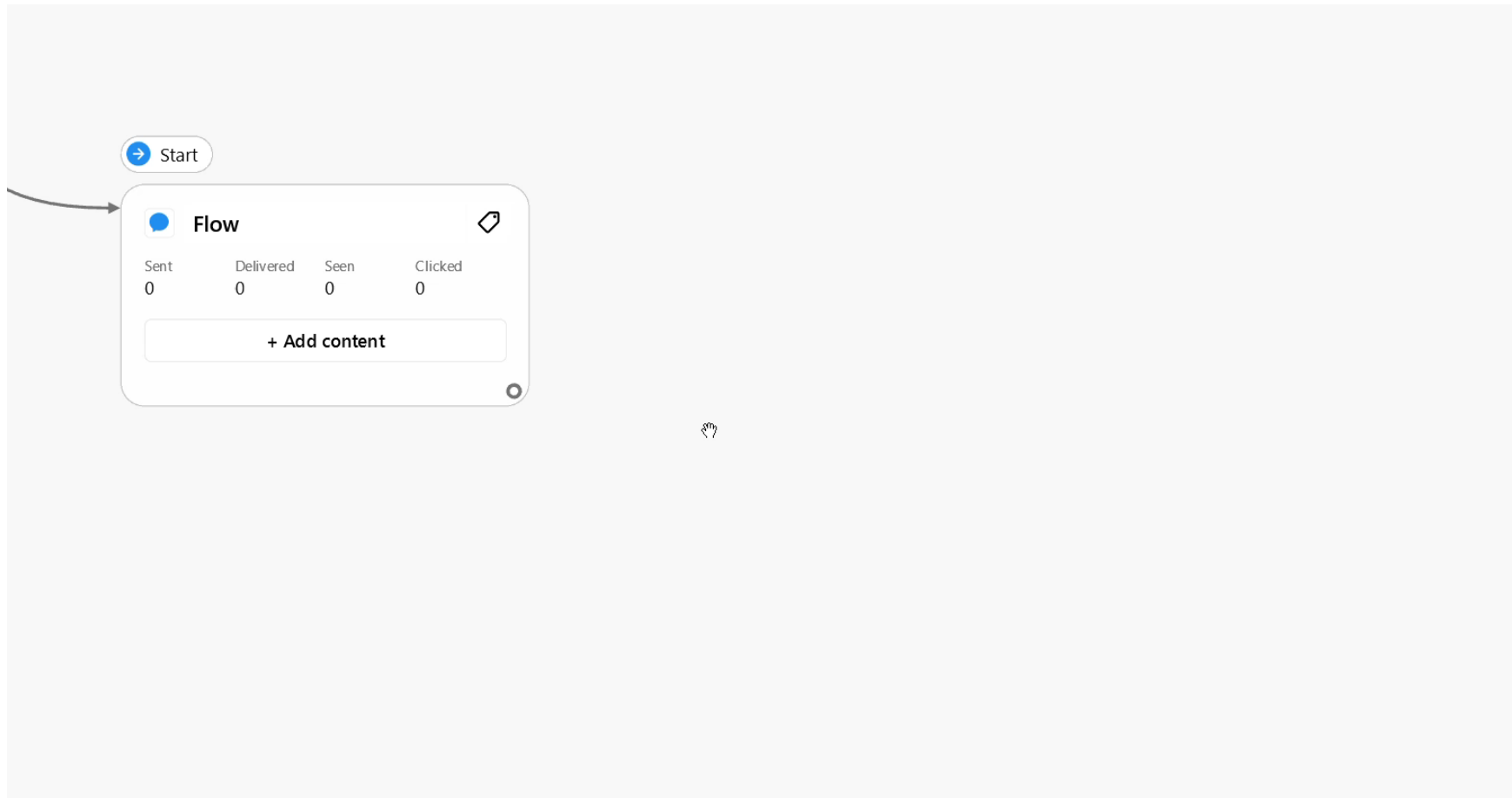


Creating a chatbot with **chatfuel**

Chatfuel is the chatbot creation platform from Meta (Facebook).



Simple of use.





CHATBOT4VET

CHATBOT TUTORING SYSTEM FOR VET



EDULOG
Turboself Groupe



Co-funded by
the European Union





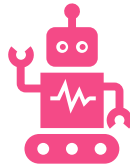
CHATBOT4VET

CHATBOT TUTORING SYSTEM FOR VET



1 guide on the situation and good practices in the partners' countries

Project website:
<https://chatbot4vet.com>



Several already made chatbots on the platform

Project platform
<https://app.chatbot4vet.eu>



A creation platform with documentation

Co-funded by
the European Union



Creating a chatbot with



[Home](#) [Admin](#) [Log out](#)



Hi partner!

Tech advancements have transformed our daily lives, including learning. Chatbots, AI-powered virtual assistants, can aid in teaching and offer benefits to both students and trainers. We're developing a Tutor Chatbot to support learning and training.



Creating a chatbot with



CONFIGURATION : WORDPRESS

General informations

English Enabled Public

Sequences

Title	Levels	Stepped	Actions
Where to host your WordPress website?	x	✓	
How to use plugins?	✓		

Levels

Title	Code	Actions
Beginner		
Advanced		
Without level		

Creating a chatbot with



CHATBOT CREATING GUIDE

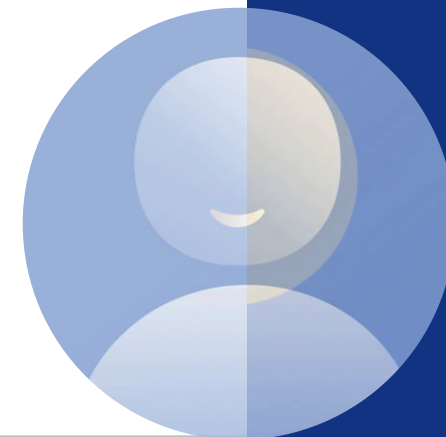
A guide to help educators create and apply their own chatbot for VET education purposes around EU

Activity Sheet 1:

Welcome to Chatbot4Vet! 2

Activity Sheet 2:

What can I find on a chatbot? 5



Other options?

- BotPenguin: <https://botpenguin.com/>
- Botstar: <https://botstar.com/>
- ManyChat: <https://manychat.com>
- ...





Dynamic Generative Chatbots



Dynamic, context-aware generative chatbots

What is interesting about these chatbots in education?

- Personalized Learning Experiences
- Interactivity and Engagement
- Instant Feedback and Support
- Adaptable Content Delivery
- Language Learning
- Support for Diverse Learning Styles
- Reduction of Repetitive Tasks for teachers



Dynamic, context-aware generative chatbots

Innovative, yet to approach with care

As with any AI-driven technology, these chatbots learn from vast datasets that may not always be perfectly curated, leading to situations where the information provided might be outdated, biased, or incorrect.

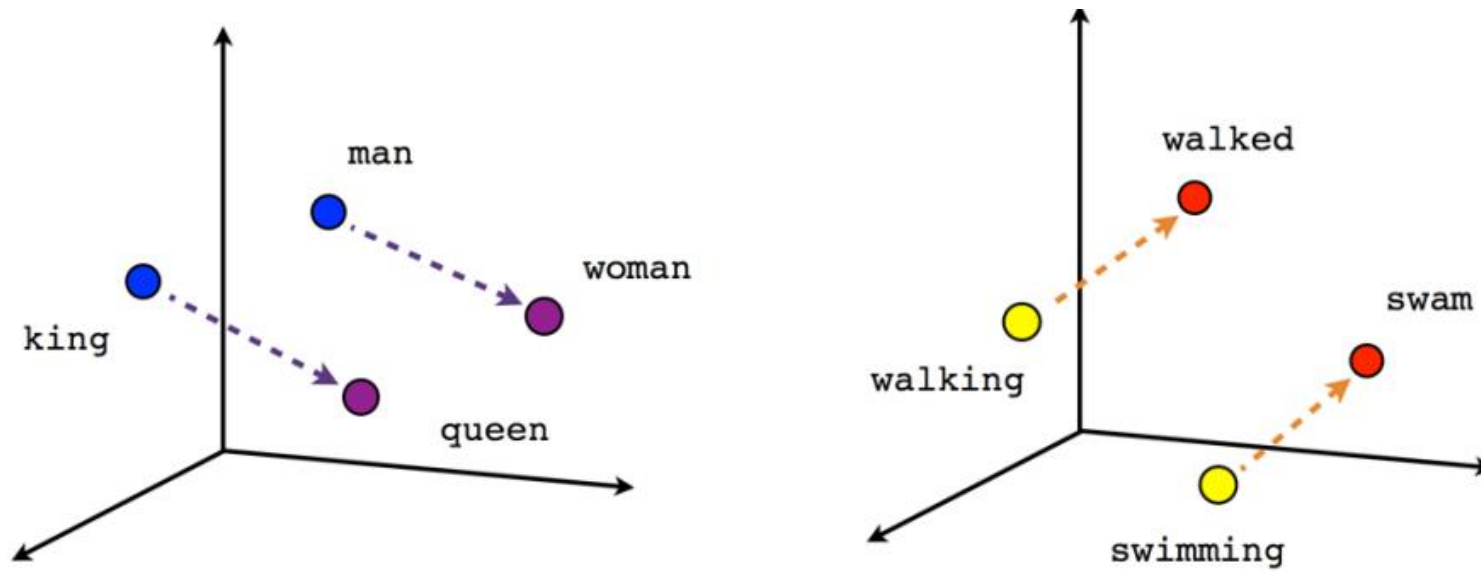
Key points to consider:

- Critical Thinking Development
- Accuracy and Reliability
- Ethical Use
- Supplementary Educational Tools



Understanding dynamic chatbots: what is happening under the hood?

- The Science Behind LLMs
 - Word Embeddings
 - Contextual Inference
 - an astronomical amount of data



Word embeddings capture useful relationships. Source: Lynn 2018



Understanding dynamic chatbots: what is happening under the hood?

Key aspects of LLMs

- Vast Training Data
- Understanding and Generation
- Limitations and Challenges



How to create a generative chatbot for students to discuss with?

How to create a bot tailored to your students and your teaching material?

- The GPT Store (by OpenAI)
- Chatfuel integration of ChatGPT



How to create a generative chatbot for students to discuss with?

To activate your bot, connect your Facebook Business Page.

Connect Facebook Page

Start

ChatGPT

Prompt
79/12000 tokens

Set up

ChatGPT reply save to
{{GPT_answer}}

Replies from prompt

AI has no answer

Send to live chat

to
about the phen
Hydrophilicity a
the video, or do
first?

Le

Collect Ansv

Save to

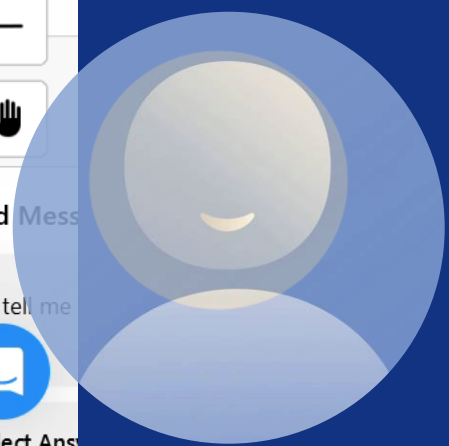
Ac

Send Mess

Alright, tell me
know

Collect Ansv

Test this flow



Other options?

- Google bards: <https://bard.google.com/>
- HuggingChat <https://huggingface.co/chat/>
- ...





Conclusion





Q & A session



Thank you



logopsycom.com



stembot.eu



CHATBOT4VET
CHATBOT TUTORING SYSTEM FOR VET

Chatbot4vet.com

