

Machine Learning

Natural Language Processing (NLP)

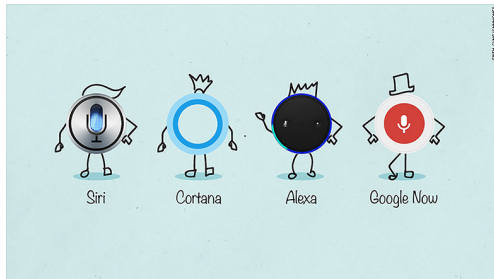
Classification :

- thème/genre (gutenberg.org : 57k livres)
- auteur (gutenberg.org : 57k livres)
- sentiment (Kaggle movie review : 222k commentaires rotten tomatoes)
- reconnaissance d'entités nommées (Kaggle Annotated Corpus for NER : 1.3M tags)
- ...

Compréhension :

- Question/réponses (SQUAD : 150k questions)
- Traduction (europarl : 450k phrases alignées)
- ...

Transcription et synthèse de la parole



Identification du locuteur



Chatbot

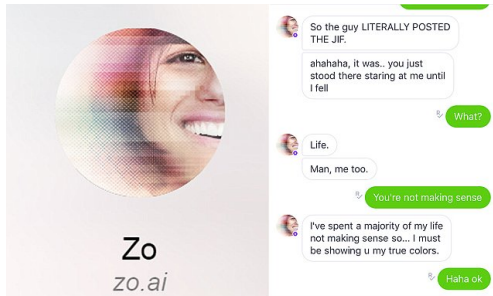
```
Welcome to

EEEEEE LL      IIII ZZZZZZZZ AAAAA
EE      LL      II      ZZ  AA  AA
EEEEEE LL      II      ZZZ  AAAAAA
EE      LL      II      ZZ  AA  AA
EEEEEE LLLLLL IIII ZZZZZZZZ AA  AA

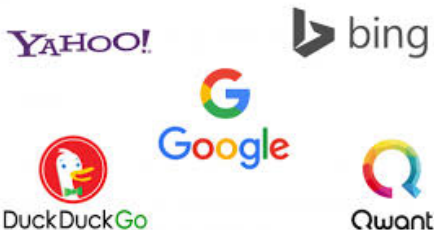
Eliza is a mock Rogerian psychotherapist.
The original program was described by Joseph Weizenbaum in 1966.
This implementation by Norbert Landsteiner 2005.

ELIZA: Is something troubling you ?
YOU:   Men are all alike.
ELIZA: What is the connection, do you suppose ?
YOU:   They're always bugging us about something or other.
ELIZA: Can you think of a specific example ?
YOU:   Well, my boyfriend made me come here.
ELIZA: Is it important to you that your boyfriend made you come here ?
YOU:   He says I'm depressed much of the time.
ELIZA: I am sorry to hear that you are depressed.
YOU:   It's true. I am unhappy.
ELIZA: Can you explain what made you unhappy ?
YOU:   █
```

Chatbot



Moteur de recherche



Traitement du langage : Champs d'application

Extraction de données



Démo reconnaissance d'entités nomées

Analyse de sentiments



Démo analyse de sentiments

Résumé

Input: Article 1st sentence	Model-written headline
metro-goldwyn-mayer reported a third-quarter net loss of dlrs 16 million due mainly to the effect of accounting rules adopted this year	mgm reports 16 million net loss on higher revenue
starting from july 1, the island province of hainan in southern china will implement strict market access control on all incoming livestock and animal products to prevent the possible spread of epidemic diseases	hainan to curb spread of diseases
australian wine exports hit a record 52.1 million liters worth 260 million dollars (143 million us) in september, the government statistics office reported on monday	australian wine exports hit record high in september

Traduction

Traduire **français** (langue identifiée) ▾

Bonjour,

Nos filles souhaitent faire un échange ensemble dans le cadre du programme Brigitte Sauzay. Avant de passer au dossier administratif, nous souhaitons vous poser quelques questions pour s'assurer que nous envisagions cet échange entre nos filles de la même façon.

Le professeur d'allemand de Gaïa a gentiment accepté de traduire nos questions afin d'éviter des incompréhensions à cause de problèmes de traduction.

Concernant les dates, Emma nous a dit que vous souhaitiez que Gaïa soit repartie avant le 19 juin car vous partiez en vacances.

Traduire en **anglais** ▾

Hello,

Our daughters would like to do an exchange together as part of the Brigitte Sauzay program. Before moving on to the administrative file, we wanted to ask you a few questions to ensure that we consider this exchange between our daughters in the same way.

Gaïa's German teacher kindly agreed to translate our questions in order to avoid misunderstandings due to translation problems.

Regarding the dates, Emma told us that you wanted Gaïa to leave before June 19 because you were going on vacation.

Démo traduction de DeepL