

Creating technologies

Hackathon TAL - TALN/CORIA Rennes 05/2018

Christophe Servan – Research Scientist





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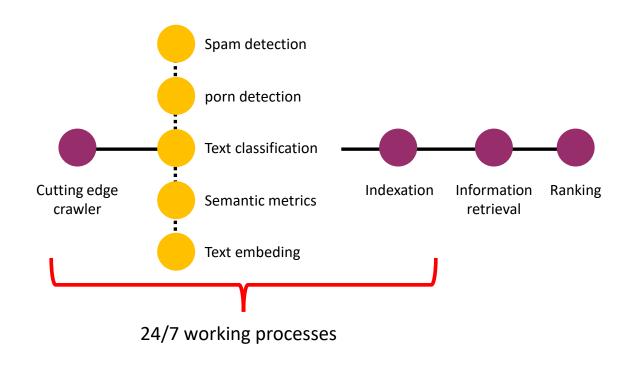
QWQ∩t Search Engine innovation

Mixing research, data science, machine learning and engineering to build a modern search engine.

This initiative takes advantage of our strong partnership with INRIA, our technology watch regarding crawling, indexing, processing and information extraction and retrieval.

Qwo∩t Search Engine innovation

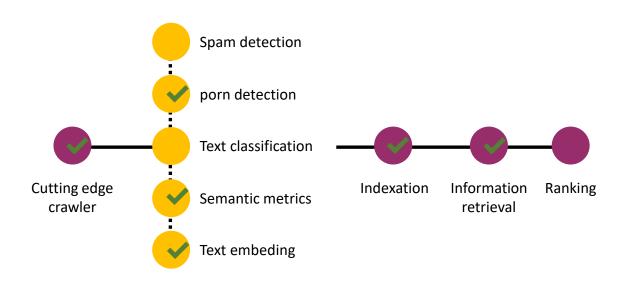
An end-to-end processing chain to innovate on every pieces



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QWQ∩t Search Engine innovation

Current status



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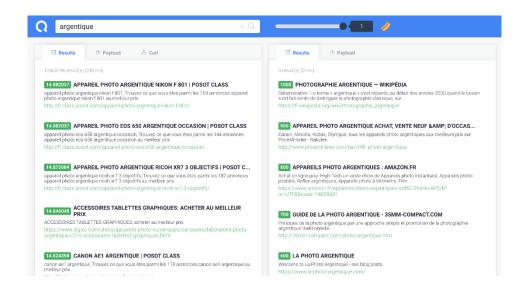
QWQ∩t Search Engine innovation

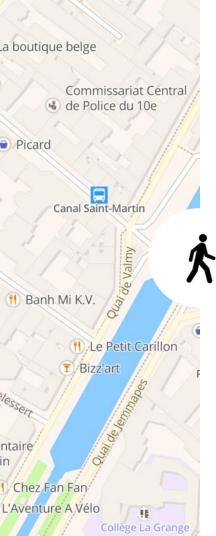
Current status

 Demonstrator is available

Next steps

- Ranking
- Infrastructure deployment for beta and testing

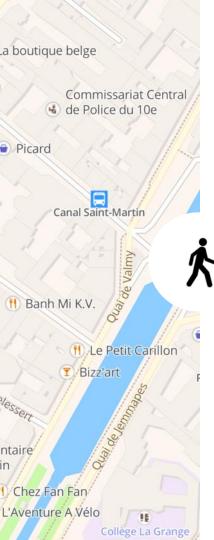






Maps to be the foundation of our next steps to serve people

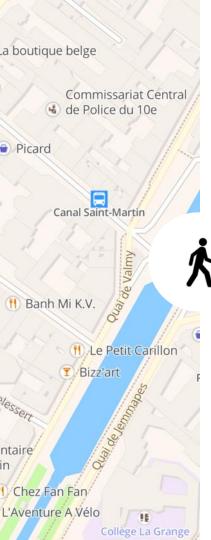
...by making them aware of where they are, where they live, what is happening in their area, Qwant is creating a new layer of understanding.





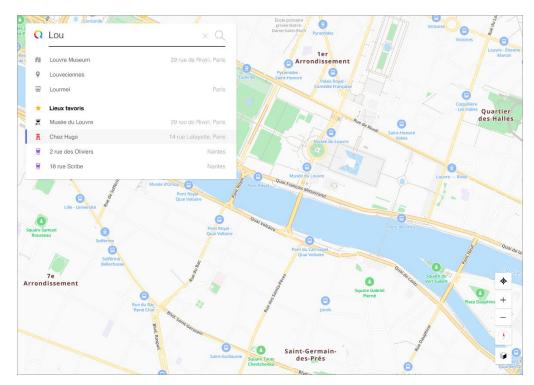
Maps back-end is made of:

- Tile server
- Geocoder
- POIs
 - Information
 - Advertisements
- Itinerary
- Navigation (Mobile)





Desktop Front-End (WIP)







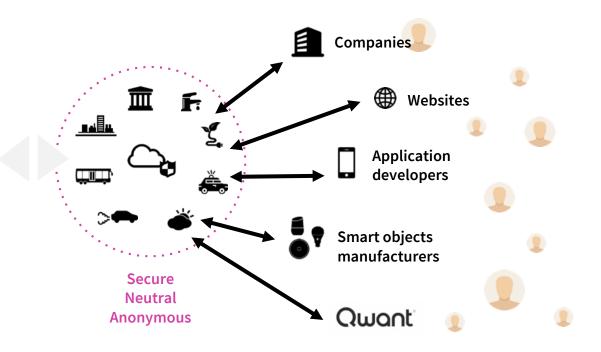
Qwant IoT aims at extending Qwant search answers with data of any kind

...temperature, air quality, parking availability, trafic, noises polution, and much more...



Qwant IoT

Data provider ecosystem





Ωωα∩t IoT current status

Qwant with open source Kuzzle

- The platform is currently in deployement status, it is fed with Netatmo data, Air pollution provided by European Environnement Agency and soon with A2A smart cities lab data.
- Our current plan is to dedicate the platformto non critical businesses where primary goal is to expose their data to Qwant search engine.
- Moving to pre-production and production is currently being worked on





To get rid of the user account and reverse the paradigm ...

... we create the self owned agent and we call it:





QWONT Digital advertising agency

In the land of privacy we believe there is a new story to tell to our users, a story where advertisements are respectful of their life ...



QWONE Natural Language Processing

The Natural Language Processing (NLP) seen as a key for the Qwant Search Engine, which guaranty user's privacy.

NLP approaches are mainly based on **Deep Learning** algorithms.





QWONT Natural Language Processing

Integration into the search engine in **document** and **query processing** such as:

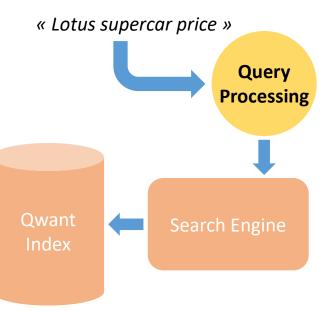
- Embeddings;
- Classification;
- Information Extraction;
- Part-of-Speech tagging;
- Machine Translation;
- Natural Language Understanding;

Document

Processing

etc.

Document /





QWONE Natural Language Processing

Many challenges:

- Improve accuracy of Instant Answers
- Process queries in Natural Language
- Fake News detection
- Multilingual processing
- Keep safe user's privacy (restricted data, anonymization)
- Improve parental control (violence, porn, etc.)
- ...
- and many other exiting research!



QWONT Natural Language Processing

Qwant Research at TALN / CORIA:

- Christophe SERVAN Lead NLP & Research Scientist
- Estelle Maudet Research Engineer
- Oralie Cattan PhD Student



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