

I want to talk to a HUMAN!



Impact de la qualité
des bases de connaissances
sur les agents conversationnels

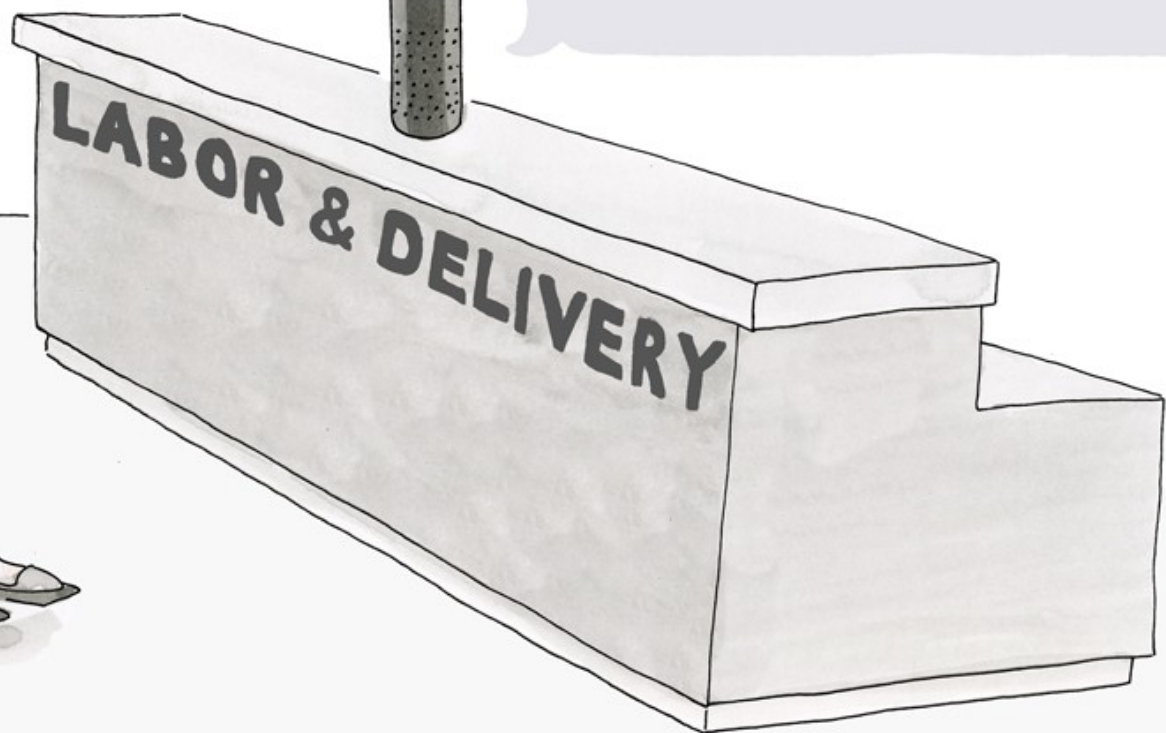
Max De Wilde
29 janvier 2020

CHATBOTS

CHATBOTS EVERYWHERE

IT'S OK, HONEY.
CHATBOTS ARE THE FUTURE
OF CUSTOMER EXPERIENCE.

Having a baby?
Searching for
maternity clothes...

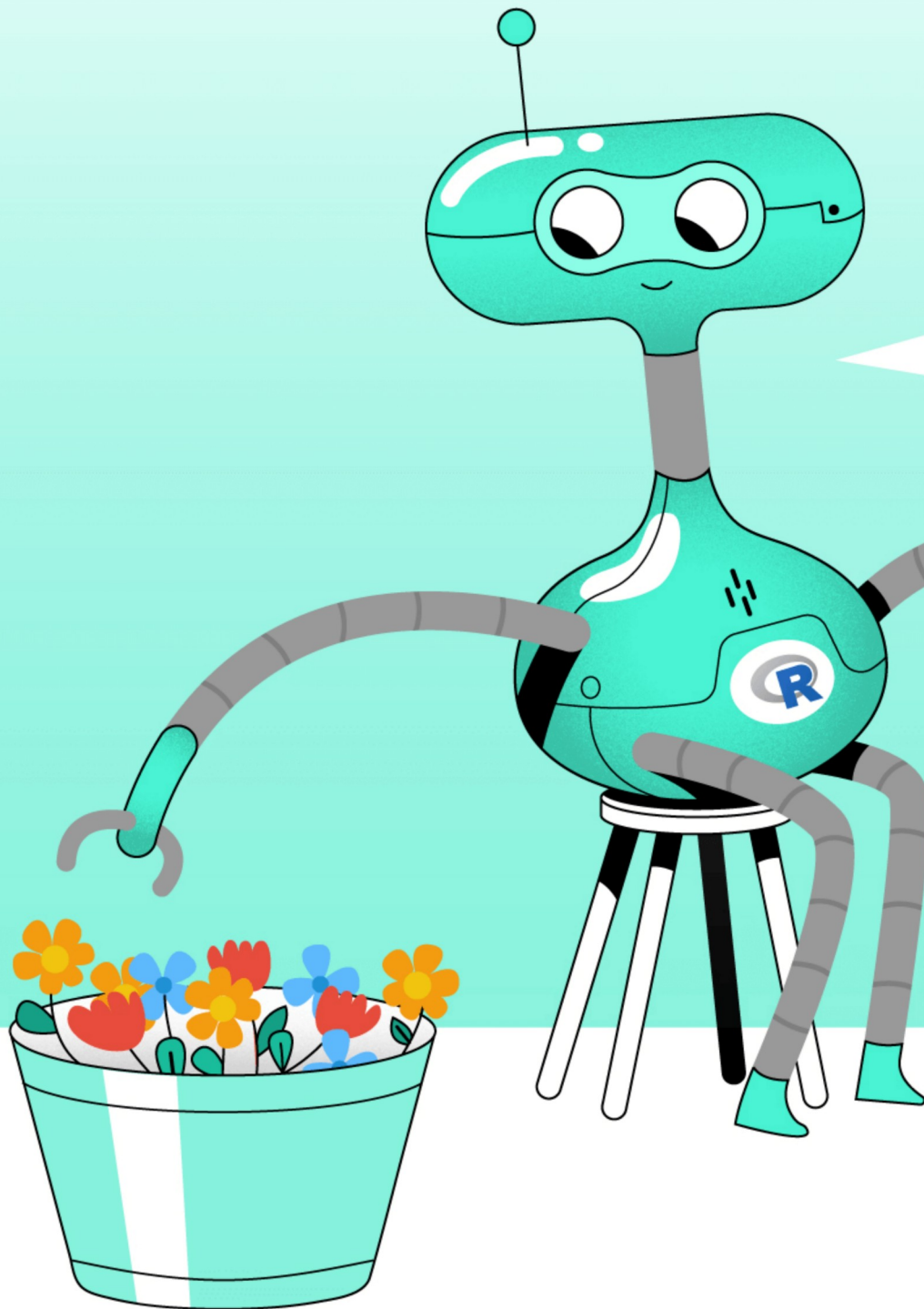


TOM
FISH
BURNE

```
=====
EEEEEEEE L      IIIIII ZZZZZZZ AAA
E        L      I      Z      A      A
E        L      I      Z      A      A
EEEEEE   L      I      Z      A      A
E        L      I      Z      AAAAAAA
E        L      I      Z      A      A
EEEEEEEE LLLLLLL IIIIII ZZZZZZ  A      A
=====
```

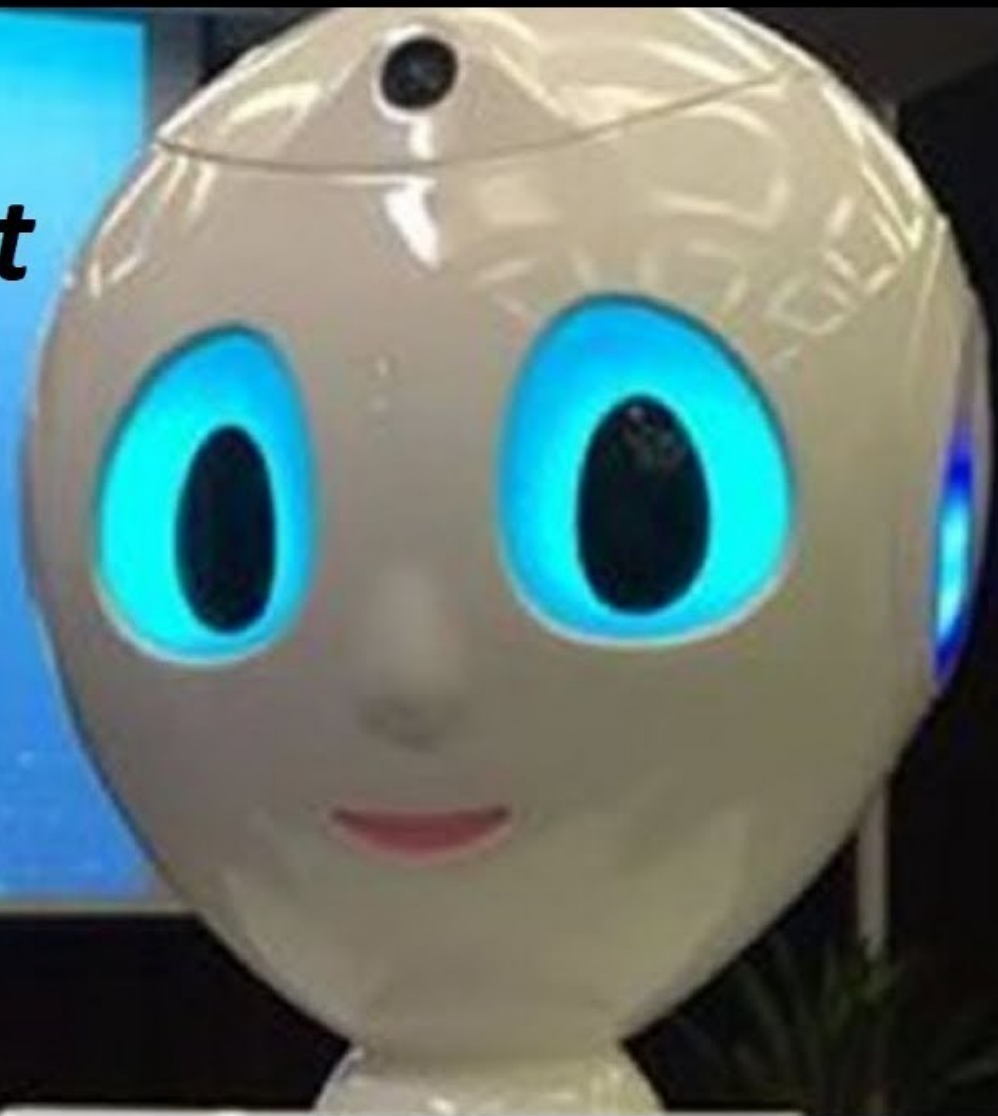
```
=====
ELIZA > (PLEASE TYPE IN ALL CAPS) WHAT'S YOUR NAME DEAR ?
AMIT
ELIZA > HI, I'M ELIZA. WHAT DO YOU WANT TO TALK ABOUT ?
AMIT > CAN I TALK ABOUT MY PROBLEM ?
ELIZA > SURE... !
AMIT > DUE TO ON GOING EXAMS IN COLLEGE, I HAVE A LOT OF STRESS.
ELIZA > PLEASE RELAX A LITTLE. SLEEP WELL.
AMIT > THANKS FOR YOUR ADVICE.
ELIZA > NO MENTION.
AMIT > BYE
ELIZA > BYE AND KEEP IN TOUCH...
=====
```



My super
advanced intelligence
solves
another impossible task!

***A robot in China got
a passing grade
from a written
medical exam.***







About 21.300.000 results (0,47 seconds)

ULB English website

<https://www.ulb.be> > ...

Welcome to the **Université libre de Bruxelles**! Studying in Brussels will enable you to make valuable contacts and build a network that will be helpful in your ...

[Find your course](#) · [ULB programme structure](#) · [Our PhD programmes](#) · [Enrolment](#)

Homepage de l'Université libre de Bruxelles

<https://www2.ulb.ac.be> Translate this page

Rendez-vous sur le nouveau site de l'**ULB** en cliquant sur <https://www.ulb.be>. Celui-ci concilie les besoins en information de la communauté et du grand public ...

Université libre de Bruxelles - Wikipedia

https://en.wikipedia.org/wiki/Université_libre_de_Bruxelles > ...

The **Université libre de Bruxelles** abbreviated **ULB**, is a French-speaking private research university in Brussels, Belgium. **ULB** is one of two institutions which ...

Motto in English: Conquering darkness by science **Motto:** Scientia vincere tenebras

Campus: Solbosch, Plaine, Erasme, Gosselies **Location:** Brussels, Belgium

[History](#) · [Campuses](#) · [International Privileged ...](#) · [Notable alumni and faculty](#)

Université libre de Bruxelles — Wikipédia

https://fr.wikipedia.org/wiki/Université_libre_de_Bruxelles > ...

L'**université libre de Bruxelles** (**ULB**) est une université belge francophone implantée sur trois campus principaux (le Solbosch, la Plaine, Érasme) dans la région ...

Fondation: 20 novembre 1834: fondation; **28 ...** **Recteur:** Yvon Englert (2016)

Forme juridique: Personne morale de droit privé ... **Président:** Pierre Gurdjian

Université Libre de Bruxelles | World University Rankings | THE

<https://www.timeshighereducation.com/universite-libre-de-bruxelles> > ...



Université Libre de Bruxelles

[Website](#)
[Directions](#)
[Save](#)

University in the City of Brussels

The Université libre de Bruxelles, abbreviated ULB, is a French-speaking private research university in Brussels, Belgium. ULB is one of two institutions which trace their origins to the Free University of Brussels, founded in 1834 by Belgian lawyer Pierre-Théodore Verhaegen. [Wikipedia](#)

Address: Avenue Franklin Roosevelt 50, 1050 Bruxelles

Number of students: 34,756 (2019)

Rector: [Yvon Englert](#)

Notable alumni

[View 45+ more](#)



François Englert



Ilya Prigogine



Jules Bordet



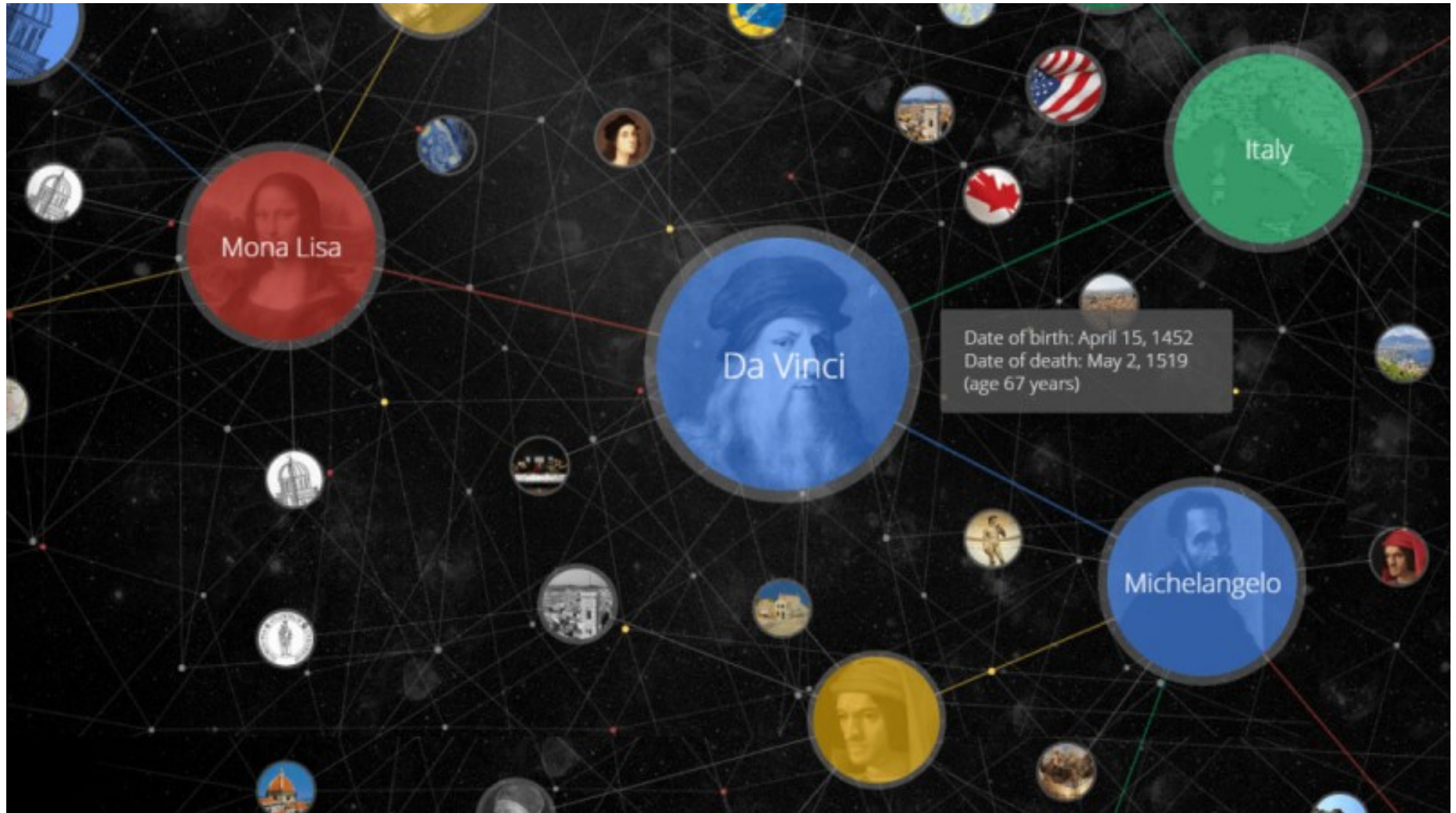
Charles Michel



Jacques Tits



Knowledge Graph



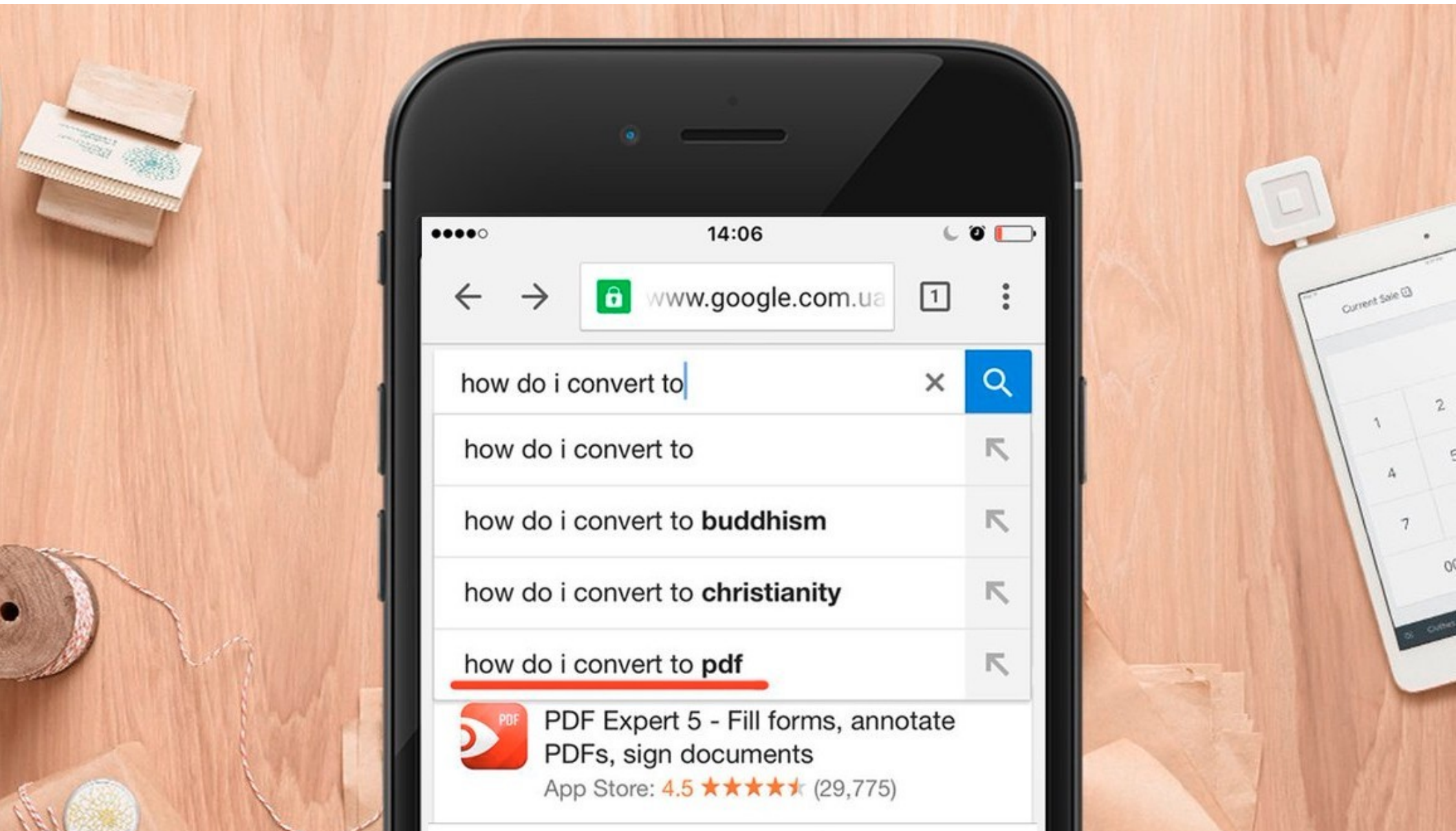
Data Sources for Google's Knowledge Graph



Google Search Timeline



Autocomplete



Noun

- [S:](#) [\(n\)](#) **convert** (a person who has been converted to another religious or political belief)

Verb

- [S:](#) [\(v\)](#) **convert**, [change over](#) (change from one system to another or to a new plan or policy) *"We converted from 220 to 110 Volt"*
- [S:](#) [\(v\)](#) **convert** (change the nature, purpose, or function of something) *"convert lead into gold"; "convert hotels into jails"; "convert slaves to laborers"*
- [S:](#) [\(v\)](#) **convert** (change religious beliefs, or adopt a religious belief) *"She converted to Buddhism"*
- [S:](#) [\(v\)](#) [change](#), [exchange](#), [commute](#), **convert** (exchange or replace with another, usually of the same kind or category) *"Could you convert my dollars into pounds?"; "He changed his name"; "convert centimeters into inches"; "convert holdings into shares"*
- [S:](#) [\(v\)](#) **convert** (cause to adopt a new or different faith) *"The missionaries converted the Indian population"*
- [S:](#) [\(v\)](#) **convert** (score an extra point or points after touchdown by kicking the ball through the uprights or advancing the ball into the end zone) *"Smith converted and his team won"*
- [S:](#) [\(v\)](#) **convert** (complete successfully) *"score a penalty shot or free throw"*
- [S:](#) [\(v\)](#) **convert** (score (a spare))
- [S:](#) [\(v\)](#) **convert**, [win over](#), [convince](#) (make (someone) agree, understand, or realize the truth or validity of something) *"He had finally convinced several customers of the advantages of his product"*
- [S:](#) [\(v\)](#) [commute](#), **convert**, [exchange](#) (exchange a penalty for a less severe one)
- [S:](#) [\(v\)](#) **convert** (change in nature, purpose, or function; undergo a chemical change) *"The substance converts to an acid"*

Lexical Ambiguity

The presence of two or more possible meanings within a single word.



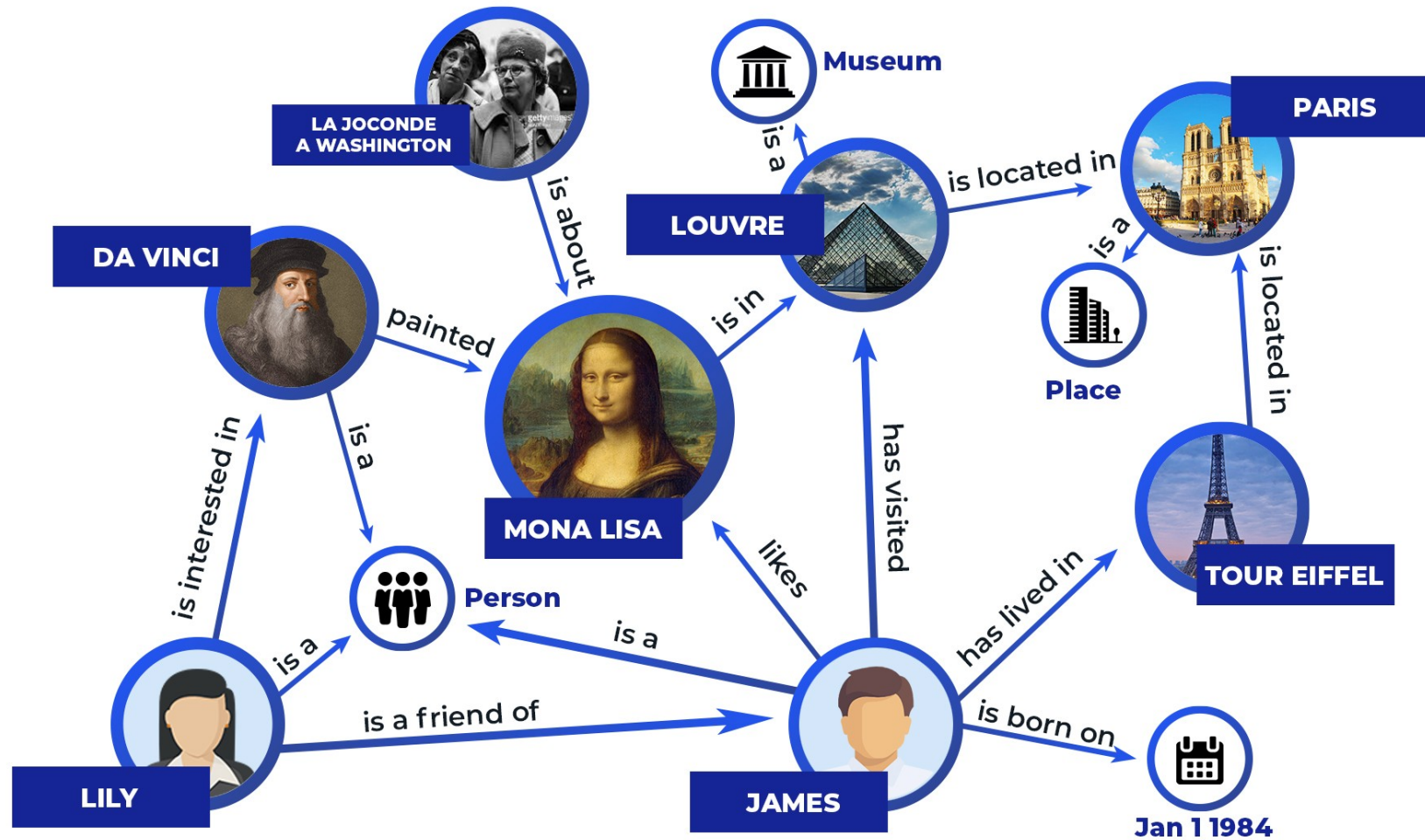
"I saw her duck."

Syntactic Ambiguity

The presence of two or more possible meanings within a single sentence or sequence of words.



"The chicken is ready to eat."





Environ 537 000 résultats (0,42 secondes)

Charles Aznavour / Mère

Knar Baghdassarian

Recherches associées



Charles Aznavour
Fils



Seda Aznavour
Petite-fille



Mischa Aznavour
Petit-fils



Katia Aznavour
Petite-fille

[En savoir plus sur Knar Baghdassarian](#)*Gérez-vous la présence en ligne de "Knar Baghdassarian" ?*[Commentaires](#)

Charles Aznavour - La Mama - YouTube

YouTube · Arie Ariche



7 days and one week

Web

Vidéos

Images

Actualités

Maps

Plus ▼

Outils de recherche

Environ 781.000.000 résultats (0,37 secondes)

(7 days) + (1 week) =

14 days

[Plus d'informations...](#)



B.B.E. - Seven days and one week - YouTube

www.youtube.com/watch?v=BgYi-fmi9tk ▼

Artiste : BBE

Date de sortie : 1996

Web

Vidéos

Images

Actualités

Maps

Plus ▾

Outils de recherche

Environ 41.900.000 résultats (0,25 secondes)

**Jenifer - Donne-Moi Le Temps - YouTube**www.youtube.com/watch?v=GMZ2UpQD_Ko ▾**Artiste :** Jenifer**Date de sortie :** 2002[Commentaires](#)**7000 Mons**

vendredi 14:00

Pluie

**2** °C | °F

Précipitations : 0%

Humidité : 99%

Température

Précipitations

Vent

Environ 4 930 000 résultats (0,44 secondes)

19 - 2000 =

-1981



Plus d'informations...

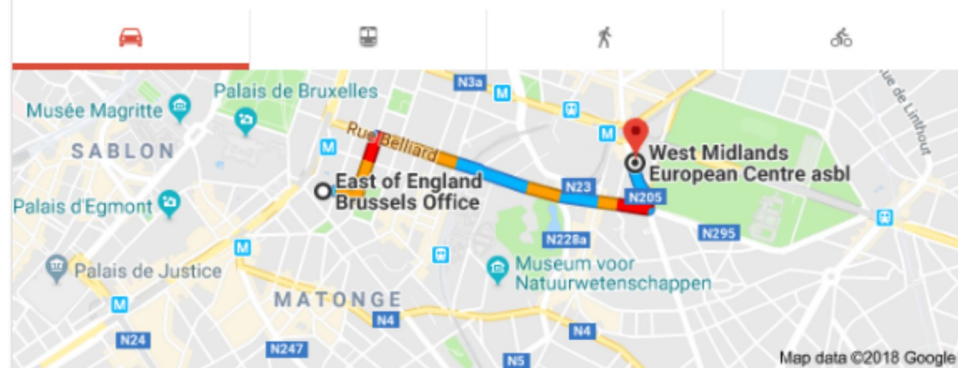


Gorillaz - 19-2000 - YouTube

<https://www.youtube.com/watch?v=Tq7Ovshz1UI>

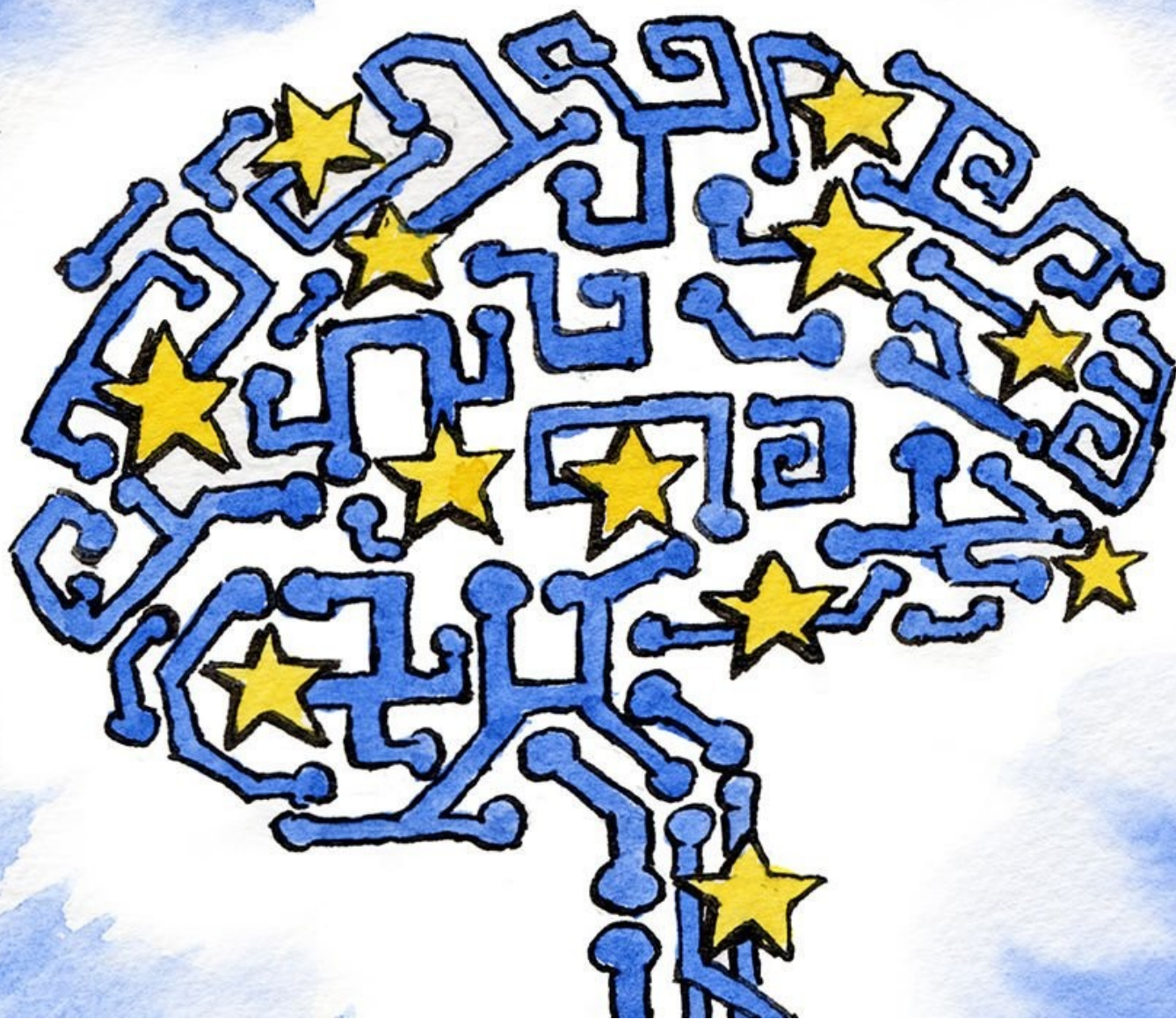
Environ 1 260 000 000 résultats (1,41 secondes)

- East of England Brussels Office, Rue du Luxembourg 3, 1000 Bruxelles
- West Midlands European Centre asbl, Avenue d'Auderghem 22, 1040 I

**6 min** (1,7 km) via Rue Belliard**13 min** (2,2 km) via Chaussée de Wavre

Voyage - From East To West (1977 Lp Version Audio Redone By ...

<https://www.youtube.com/watch?v=ZgPe1MdL7VQ>



Dave Simonds



Un nouvel élan pour la démocratie européenne

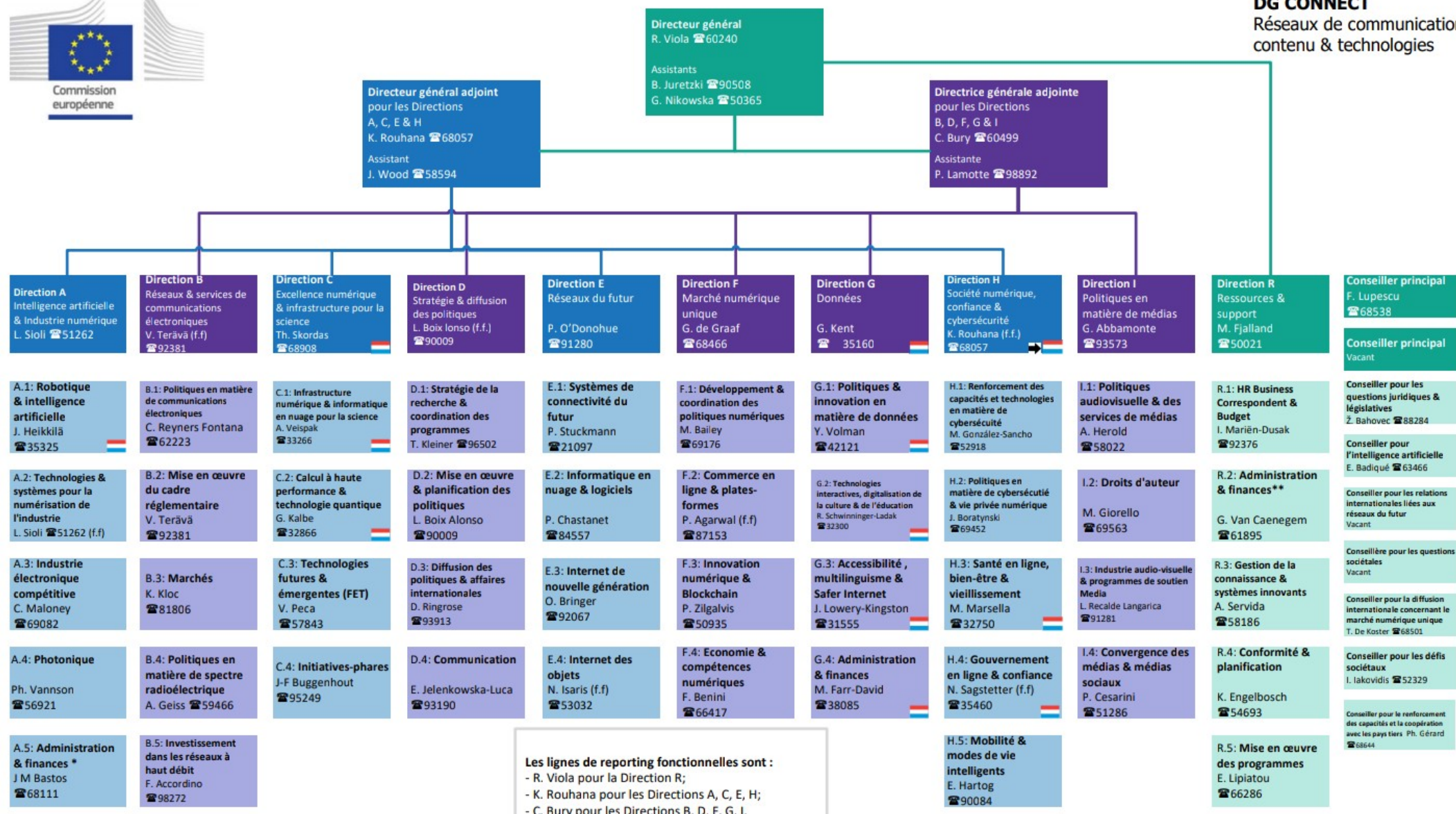
Directions Générales

Full name and order of listing	Short name	Commonly used abbreviation	Letter code (internal use) ⁽¹⁾	Numerical code ⁽²⁾ (invisible)	Field(s)
Secretariat-General		SG	SG	31	Secretariat-General
Legal Service		SJ	SJ	32	Legal Service
Directorate-General for Communication	DG Communication		COMM	61	Communication
IDEA – Inspire, Debate, Engage and Accelerate Action			IDEA	46	Inspire, Debate, Engage and Accelerate Action
Task Force for Relations with the United Kingdom ⁽³⁾	UK Task Force		UKTF	36	Relations with the United Kingdom
Directorate-General for Budget	DG Budget		BUDG	19	Budget
Directorate-General for Human Resources and Security	DG Human Resources and Security		HR	09	Human Resources and Security
Directorate-General for Informatics	DG Informatics		DIGIT	50	Informatics
Internal Audit Service			IAS	25	Internal Audit Service
European Anti-Fraud Office		OLAF	OLAF	57	European Anti-Fraud Office
Directorate-General for Economic and Financial Affairs	DG Economic and Financial Affairs		ECFIN	02	Economic and Financial Affairs
Directorate-General for Internal Market, Industry, Entrepreneurship and SMEs	DG Internal Market, Industry, Entrepreneurship and SMEs		GROW	62	Internal Market, Industry, Entrepreneurship and SMEs
Directorate-General for Defence Industry and Space	DG Defence Industry and Space		DEFIS	26	Defence Industry and Space
Directorate-General for Competition	DG Competition		COMP	04	Competition
Directorate-General for Employment, Social Affairs and Inclusion	DG Employment, Social Affairs and Inclusion		EMPL	05	Employment, Social Affairs and Inclusion
Directorate-General for Agriculture and Rural Development	DG Agriculture and Rural Development		AGRI	06	Agriculture and Rural Development
Directorate-General for Mobility and Transport	DG Mobility and Transport		MOVE	07	Mobility and Transport
Directorate-General for Energy	DG Energy		ENER	27	Energy
Directorate-General for Environment	DG Environment		ENV	11	Environment
Directorate-General for Climate Action	DG Climate Action		CLIMA	87	Climate Action
Directorate-General for Research and Innovation	DG Research and Innovation		RTD	12	Research and Innovation
Directorate-General for Communications Networks, Content and Technology	DG Communications Networks, Content and Technology	Connect	CNECT	13	Communications Networks, Content and Technology
Joint Research Centre		JRC	JRC	53	Joint Research Centre
Directorate-General for Maritime Affairs and Fisheries	DG Maritime Affairs and Fisheries		MARE	14	Maritime Affairs and Fisheries
Directorate-General for Financial Stability, Financial Services and Capital Markets Union	DG Financial Stability, Financial Services and Capital Markets Union		FISMA	15	Financial Stability, Financial Services and Capital Markets Union
Directorate-General for Regional and Urban Policy	DG Regional and Urban Policy		REGIO	16	Regional and Urban Policy
Directorate-General for Structural Reform Support	DG Structural Reform Support		REFORM	35	Structural Reform Support
Directorate-General for Taxation and Customs Union	DG Taxation and Customs Union		TAXUD	21	Taxation and Customs Union
Directorate-General for Education, Youth, Sport and Culture	DG Education, Youth, Sport and Culture		EAC	63	Education, Youth, Sport and Culture
Directorate-General for Health and Food Safety	DG Health and Food Safety		SANTE	64	Health and Food Safety
Directorate-General for Migration and Home Affairs	DG Migration and Home Affairs		HOME	65	Migration and Home Affairs
Directorate-General for Justice and Consumers	DG Justice and Consumers		JUST	76	Justice and Consumers
Directorate-General for Trade	DG Trade		TRADE	67	Trade
Directorate-General for Neighbourhood and Enlargement Negotiations	DG Neighbourhood and Enlargement Negotiations		NEAR	69	Neighbourhood and Enlargement Negotiations
Directorate-General for International Cooperation and Development	DG International Cooperation and Development		DEVCO	55	International Cooperation and Development
Directorate-General for European Civil Protection and Humanitarian Aid Operations (ECHO)	DG European Civil Protection and Humanitarian Aid Operations (ECHO)	ECHO	ECHO	51	European Civil Protection and Humanitarian Aid Operations (ECHO)
Eurostat		Eurostat	ESTAT	34	Eurostat
Directorate-General for Interpretation	DG Interpretation		SCIC	38	Interpretation
Directorate-General for Translation	DG Translation	DGT	DGT	47	Translation
Publications Office of the European Union	Publications Office	OP	OP	43	Publications Office



DG CONNECT

Réseaux de communication
contenu & technologies



Data Oriented Services

Discover the dazzling beauty of data!



Public Consultations

Navigate through the content submitted by citizens to online public consultations in order to analyse and visualize open closed questions as well as open questions (free text) in an efficient way.

[Try it](#)[Learn more »](#)

Drive-in

Experiment with various text analytics services (keywords extraction, named-entity-recognition, sentiment analysis, summarization, topic modeling, language recognition) on your own documents.

[Try it](#)[Learn more »](#)

Experts Matching

Find the best experts out of a given pool to evaluate a set of research projects, respecting a number of constraints (gender parity, newcomers, industry expertise, nationality, etc.).

[Try it](#)[Learn more »](#)

EUR-Lex Explorer

Browse documents from EUR-Lex for the period 1985-2016. You can search by keyword as well as raw text, filter results by year and Eurovoc terms, find similar words and see them in context.

[Try it](#)[Learn more »](#)

Portfolio Analysis

Analyse a set of projects from a given call or thematic, in terms of coverage, participants, financial amounts, topics, etc. Data are taken from CORDA for FP7/H2020 projects.

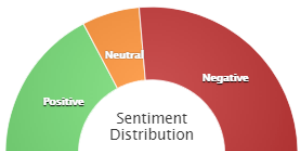
[Try it](#)[Learn more »](#)

Chatbot

Interact with a conversational agent to retrieve knowledge about H2020 calls, Air Passenger Rights or checking facts about the EU. We support RDF knowledge graphs as well as multilingual FAQs.

[Try it](#)[Learn more »](#)

Answers (55)	
<input checked="" type="checkbox"/> Use pagination?	
<div>< 1 2 3 ></div>	
: lesswire	z-balance
Other R&D institutes mainly in US and Asia (JP, Korea)	DUPLIO
Wireless technology industry	CROWD
Other airplane companies	CORW
Most major IoT platfrom providers support similar features.	COEMDS
To the best of my knowledge there is no competition;	CORONET
Other companies offering IoT platforms. None provides search facilities across the Web for IoT things and none includes semantic support.	COMPOSE
Too soon to identify	COMBO
Big Data market, suppliers looking to provide SQL like capabilities on top of different types of data stores	CoherentPaaS
Risk Communication through Privacy Indicators and Insights, and actionable privacy on top of these indicators, is a relatively new market. The closest end user services are parental control services. There are some established names like McAfee, Avira etc. There are also some pureplay companies like Netnanny. On the underlying technology competition there are image classification services like ClarifAI and Webpurify.	CloudSource
The competition is emerging at the present time and the market has a very high potential of growth. The competition is running at international level with strong competitor that will be able to offer all inclusive solutions in a near future.	CityPulse
Manufacturers of probes for in vivo brain recordings include Blackrock Microsystems (Utah Univ. spinoff).	BRAINFLAP
only the x-IMU sensor by x-io Technologies appeared suitable for attachment to the foot/lower leg	BEAT-HEALTH

Sentiment

Keywords
<div>service (14) software (5) provide (5) provider (4) exist (4) market (3) competition (3) user (4) iot (4) integration (4) functionality (4) company (4) translation (3) privacy (3) manufacturer (3) internet (3) interface (3) include (3) identify (3) centre (3) big data (3) verayo (3) tool (3) terminology (3) talent (3) sensor (3) search (3) robot (3) pufs (3) platform (3) optic (3) localisation (3) lighting (3) intrinsic (3) innovation (3) google (3) facility (3) enable (3) emerge (3) dedicated (3) consortium (3)</div>
Main Sentences
Google Images offers a similar high quality search facility on the basis of content reuse possibility.
Not suited for low level integration, less interesting for developers; transformations can't be reused outside the suite Pentaho Data Integration: provides several plugins and components for many data formats, and it's designed for ETL.
Mule Enterprise Service Bus (ESB): merges data integration tools and technologies; capable of exchanging and transforming data through the DataWeave graphical interface; service creation and service orchestration - key processes for developing composite applications using existing units of functionality in a SOA.
There are other approaches with similar end result - anonymity - but these are not direct competition (could be collaboration partners).
The competition is running at international level with strong competitor that will be able to offer all inclusive solutions in a near future.
On the underlying technology competition there are image classification services like ClarifAI and Webpurify.
Big Data market, suppliers looking to provide SQL like capabilities on top of different types of data stores
Most major IoT platform providers support similar features.
Some companies exist that are already selling PUF-based products in their markets.
However, so far neither new products nor agreed standards exist to enable access to external services or data as supported by CGI's Access Points.
Patient involvement/dynamic customization via profiles and informed consent are a rising issues with focus from all large Health Care Platform providers.
Two types of competitors: neuroscientific equipment supplier that provides their own software and the fact that some research groups prefer to develop from scratch their own software.
Wifi enabled appliances are in the market but demand is very low and the product is not a priority for the manufacturers.
As the demand for Environmental and Carbon Stress tests heats up, a number of non-profits, academics as well as commercial providers are expected to enter the market.
Entities
<div>Europe (LOCATION) LG (ORGANIZATION) Japan (LOCATION) France (LOCATION) Korea (LOCATION) China (LOCATION) MCI (ORGANIZATION) ABC (ORGANIZATION) Asia (LOCATION) PCB (ORGANIZATION) Environmental and Carbon Stress (ORGANIZATION) CGI (ORGANIZATION) US (LOCATION) Thompson Reuters (ORGANIZATION) NST (ORGANIZATION) Google (ORGANIZATION) Pentaho Data Integration (ORGANIZATION) Whirlpool (ORGANIZATION) Samsung (ORGANIZATION) Risk Communication through Privacy Indicators and Insights (ORGANIZATION)</div>

WELCOME TO THE DORIS DRIVE-IN

Pick up a service and create a new search by copy-pasting your text.
Alternatively, use the Drive to upload multiple files on which you want to run the services.

NEW SEARCHES



SERVICE



CREATE NEW SEARCH

SERVICE



CREATE NEW SEARCH

SERVICE



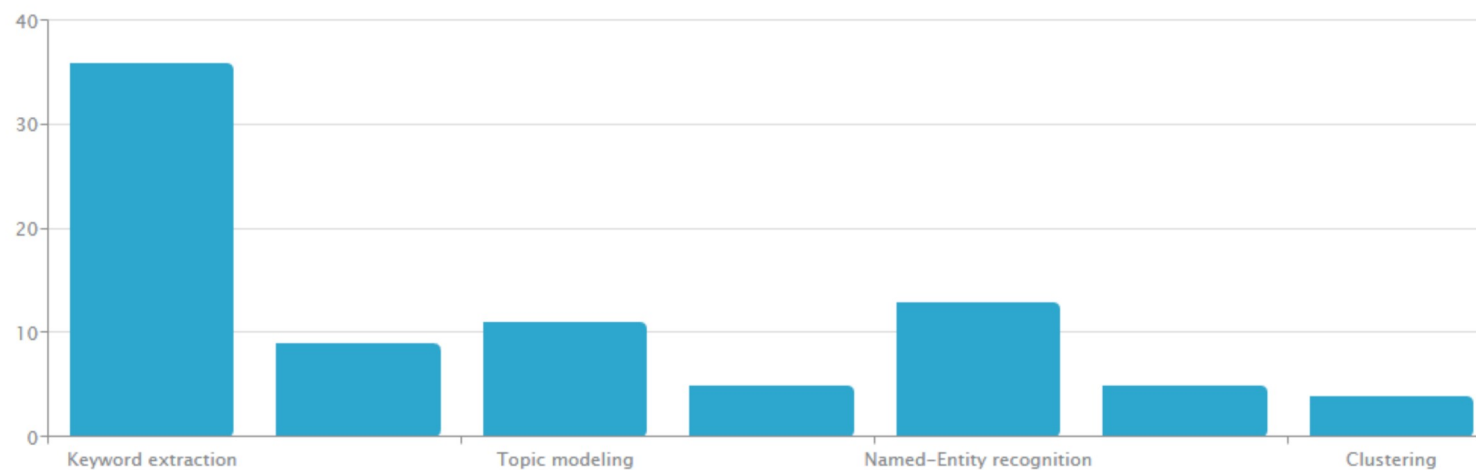
CREATE NEW SEARCH

SERVICE



CREATE NEW SEARCH

SERVICES USAGE












Powered by **ZingChart**

Abstract

The evolution of smart societies and IoT applications are pushing the needs for portable, intelligent and multifunctional smart systems and sensors. Smart systems are indeed subject to the trends of today's world: miniaturization, multi-functionality, networking capability, energy-autonomy and reliability. However, increasing system complexity and multi-disciplinary requirements, pose serious challenges in the integration of interoperable technologies in small packages and at a realistic cost. 4DSense was conceived as the technology roadmap that will bridge the multi-technology integration gap and will master complexity in order to deliver a smart sensing system that will firmly address future SS needs. 4DSense aims to exploit 3D integration techniques and monolithic integration as the means to unite discrete yet complimentary new and most-advanced technologies in a miniaturized, multi-functional and low-power sensing micro-system in order to demonstrate a smart platform for centralized, real-time environmental monitoring for Internet of Things applications. The new smart sensing platform will harmonically merge integrated photonics and plasmonics with lasers and photo-detectors, electronic ICs and wireless technology as well as biochemistry and micro-fluidics in a best-of-class multi-functional prototype. Despite its generic profile and broad application potential, 4DSense will be validated in the ever demanding field of water management by embedding it in a wireless sensor network environment with remote access and centralized management to demonstrate fast, accurate and reconfigurable water quality monitoring. Water management was selected as the main validation vehicle given the complexity of its process cycle and the expected momentous impact on the general public, however 4DSense can equally address the needs of tomorrow in environmental monitoring, medical diagnosis, food analysis, or safety and security.

Matching Matrix

0.83

Keywords	Max Score	 Christian De Prost  	 Wolfgang Templ  	 Elvira Maria Correia Fortunato 
biosensor 	0.899	0.749	0.601	0.899
cmos_electronics 	0.829	0.795	0.756	0.829
configuration 	0.718	0.718	0.513	0.604
fluidic 	0.826	0.826	0.734	0.703
functionalization 	0.868	0.667	0.552	0.868
hybrid 	0.726	0.726	0.703	0.72
molecule 	0.684	0.623	0.512	0.684
optical 	0.798	0.793	0.798	0.721
optoelectronics 	1	1	0.891	1
tsvs 	0.797	0.645	0.66	0.797
wireless 	1	0.741	1	0.595

Search

SUBMIT



MARKET

HUMAN

Dashboard

VIEWS:

Filtered Search

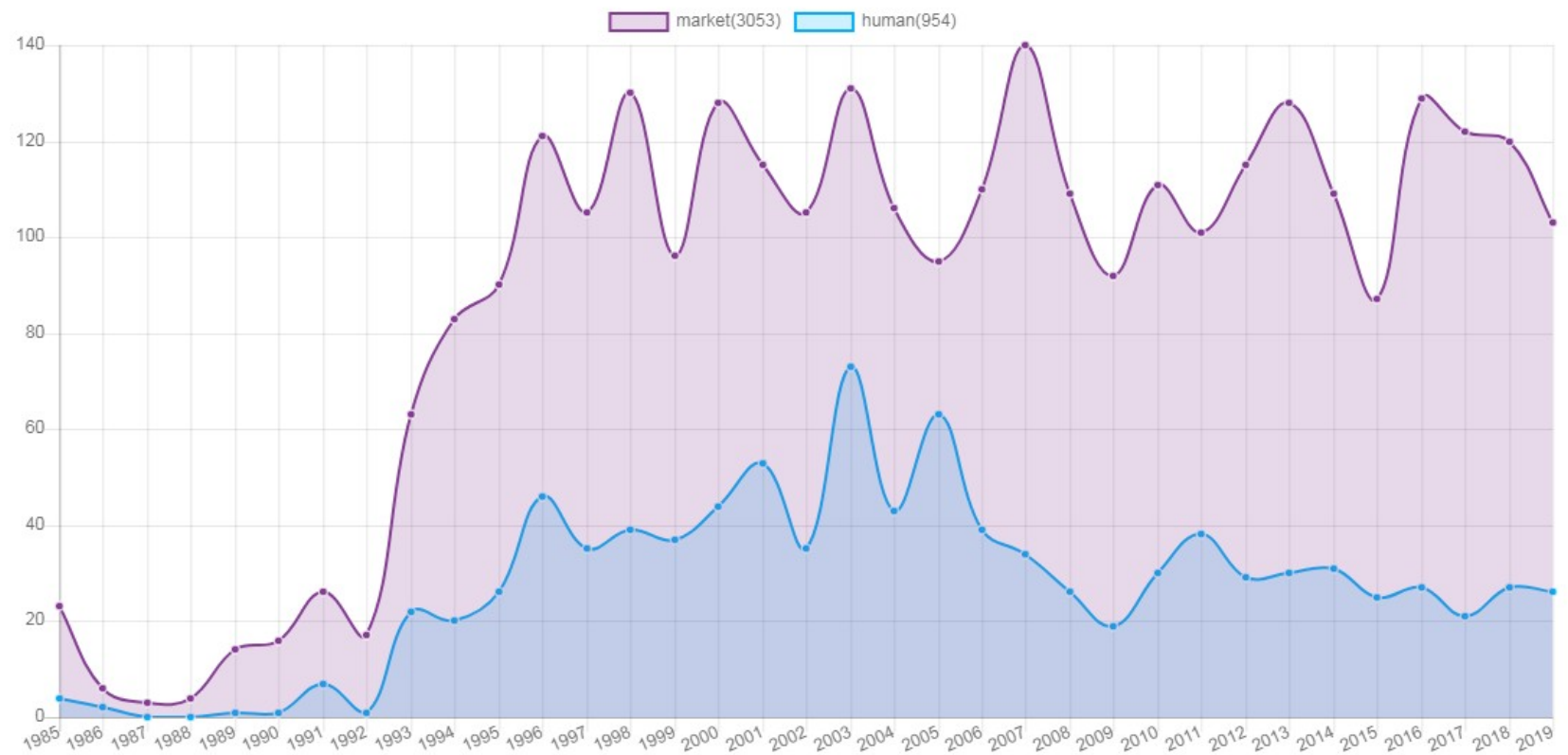
Raw Search

Term similarity

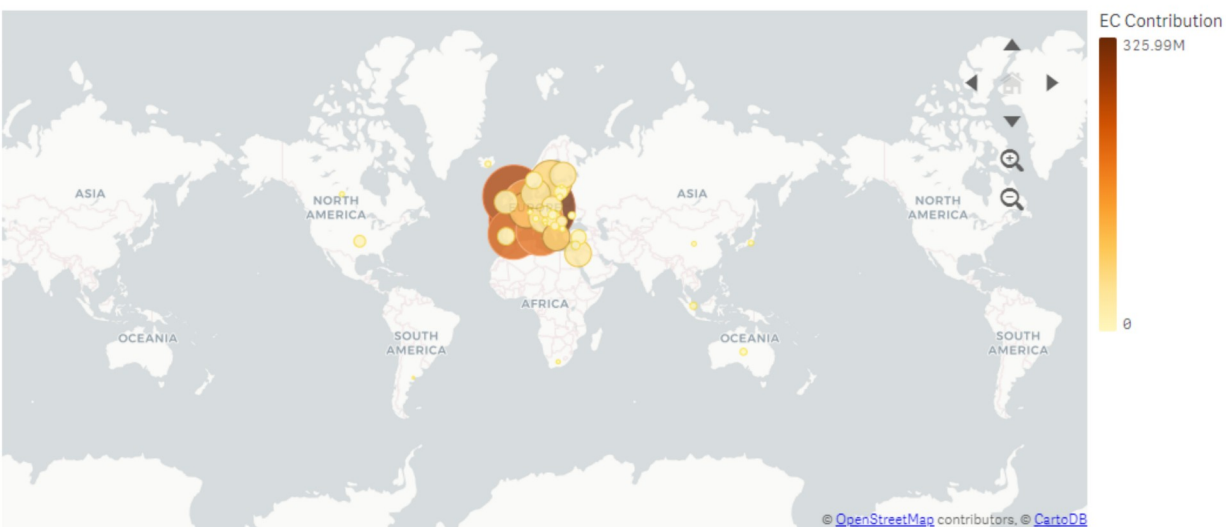
Term proximity

Q Filtered Search

Number of documents containing keywords



Budget by Country

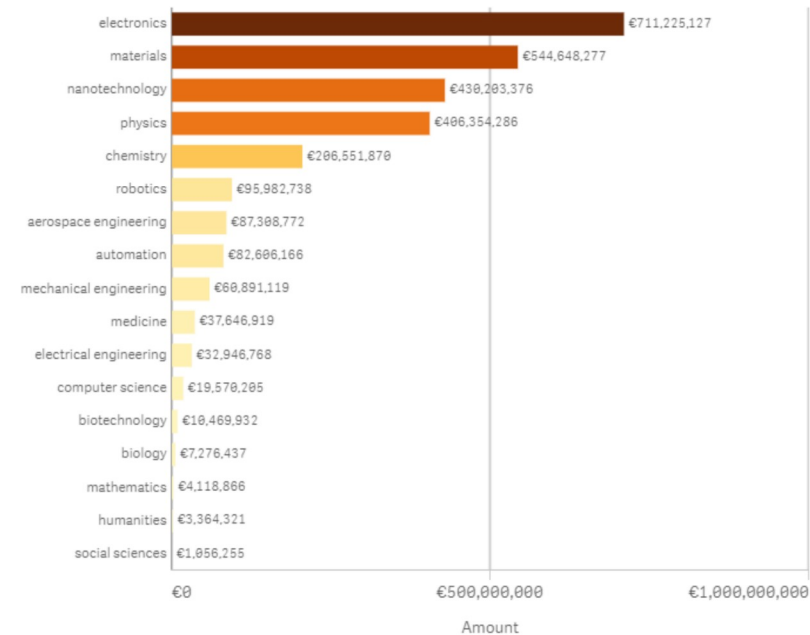


Proposals
469

Applicants
1,167

Choose keyword to filter

Budget by Topic



Applicants

Applicant	City	Country	Budget
3DPLUS	Buc	France	650250.00
35LAB	Marcoussis	France	563670.00
ÅµS	VARNA	Bulgaria	424000.00
AACHEN	AACHEN	Germany	360000.00
AALTO	AALTO	Finland	1070522.00
AALTO	AALTO	Finland	1494448.00
AALTO	AALTO	Finland	1499445.00
AALTO	HELSINKI	Finland	2184283.00
AALTO-KORKEAKOULUSAA	AALTO	Finland	189998.00
AAU	AALBORG	Denmark	111814.00
ABA	Milano	Italy	412500.00
ABB	Rotterdam	Netherlands	218750.00
Åbo Akademi University	Abo	Finland	630887.50
ACCREA	Lublin	Poland	306250.00



EUROPE DIRECT CONTACT CENTRE

Europe's single
phone number for citizens

April 2019

The Europe Direct Contact Centre (EDCC) is **Europe's single phone number** for citizens who have questions about the European Union.

The Contact Centre is able to answer **by phone or email** in any of the **24 official EU languages**.

Freephone from all EU Member States: **00 800 6 7 8 9 10 11**.

Online form: https://europa.eu/european-union/contact_en

In the context of the EU's **Brexit preparedness**, it answers to questions of citizens who want to know more about how to prepare for a "no-deal" scenario. To this end, it remains open over some weekends.



109,000 questions in 2018
27,000 questions between January-March 2019

WHERE SHOULD
WE FOCUS
THIS YEAR?

"BLOCKCHAIN"



IT WILL
CHANGE
EVERYTHING.



EVERYBODY
IS TALKING
ABOUT IT.



THE POTENTIAL
APPLICATIONS
ARE ENDLESS.



WE DON'T
WANT TO BE
LEFT BEHIND.



WHAT
EXACTLY IS
BLOCKCHAIN?

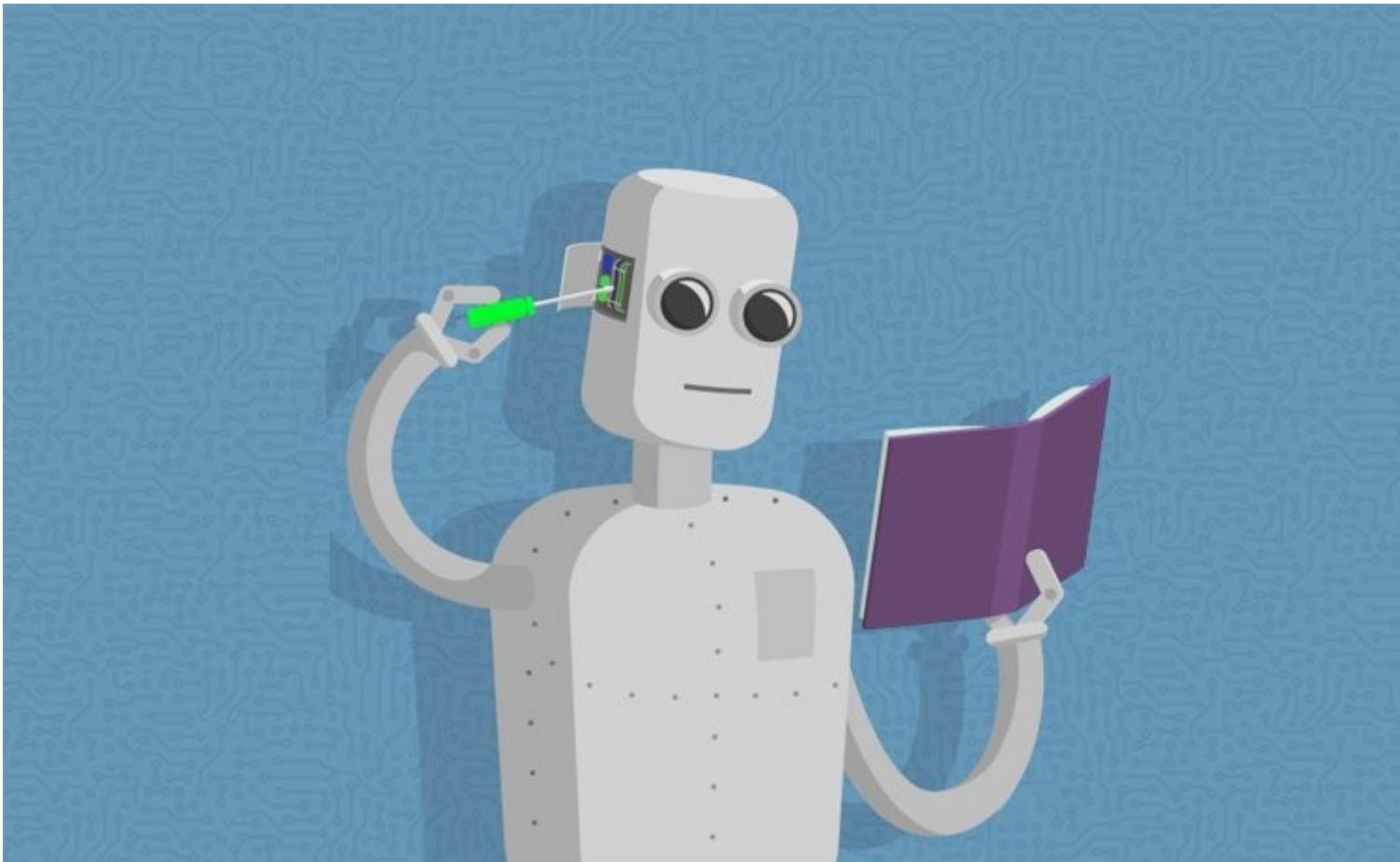


ALSO,
"ARTIFICIAL
INTELLIGENCE"



TOM
FISH
BURNE

Machine learning





Mat Velloso
@matvelloso



Difference between machine learning
and AI:

If it is written in Python, it's probably
machine learning

If it is written in PowerPoint, it's
probably AI

22/11/18, 5:25 PM

3,514 Retweets **10.8K** Likes



Enquiries

Submit your enquiry here

Quel sera l'impact du Brexit sur la stabilité des marchés ?

Go!

Results

Language: French

Translation: What will be the impact of Brexit on market stability?

Area:

COMM

FISMA


ECFIN

Topic:

EU GENERAL AND MEMBER STATES

ECONOMIC AND MONETARY AFFAIRS

FINANCIAL MARKETS AND CAPITAL MOVEMENTS

Escalate:  No

***Hello!
I am BERT***

***How may
I help you?***



Python NLP Toolbox 2019



Released by Google in late 2018, BERT has caused a revolution in NLP. Its clever use of transfer learning has pushed NLP to new heights.



Still, BERT is not the only game in town. HuggingFace's Transformers library has become the standard tool for finetuning a wide range of transfer models.



Word2Vec is so 2013. In 2018 Zalando Research brought us Flair, a powerful NLP and embedding library that shines at named entity recognition in particular.



With its combination of off-the-shelf and trainable models, spaCy still provides the most complete NLP pipeline for a growing number of languages.



If you need a pre-trained model for more advanced English NLP tasks or a library with reference deep learning algorithms, AllenNLP has you covered.



Bots are slowly coming of age. Rasa is the tool of choice for automating conversations and creating chatbots or voice assistants.



Tensorflow and PyTorch are the Python foundations of deep learning. While PyTorch dominates research, Tensorflow remains more popular in industry.



Age is just a number, and baselines need more love. With its wide range of algorithms, Scikit-Learn is indispensable in the Python machine learning toolkit.



When you're done training and testing, you'll want to integrate your model with other software. FastAPI helps you build robust APIs efficiently.



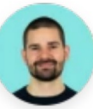
Good models need to be shared. Streamlit is the new kid on the block that helps machine learning engineers build front-end tools to demo their work.



NLPTOWN



I want to order a pizza



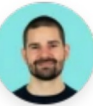
order_pizza



Great! Which pizza would you like? You can find our menu [here](#)

action_listen

The Neapolitan



pizza_choice



No problem. Do you want any extra toppings?

Next best action:

list_toppings	88%
ask_sides	10%
handoff_to_human	2%

Explosion des demandes !

DG COMM

EDCC + social media

DG RTD

Horizon 2020

DG GROW

Your Europe Advice (Air Passenger Rights)

DG HR

Staff Matters

DG CNECT, EASME, OIB, DIGIT...

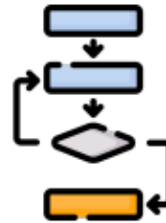


3 types de chatbots



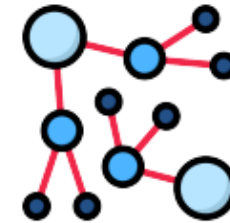
FAQ-based

Inputs are mapped with a **list of frequently asked questions** and return the **closest answer**



Story-based

Inputs are linked to a set of **predefined dialogs** and return the **next message** learned



Knowledge-based

Inputs are converted into a **knowledge base query** and return the **query result** in natural language

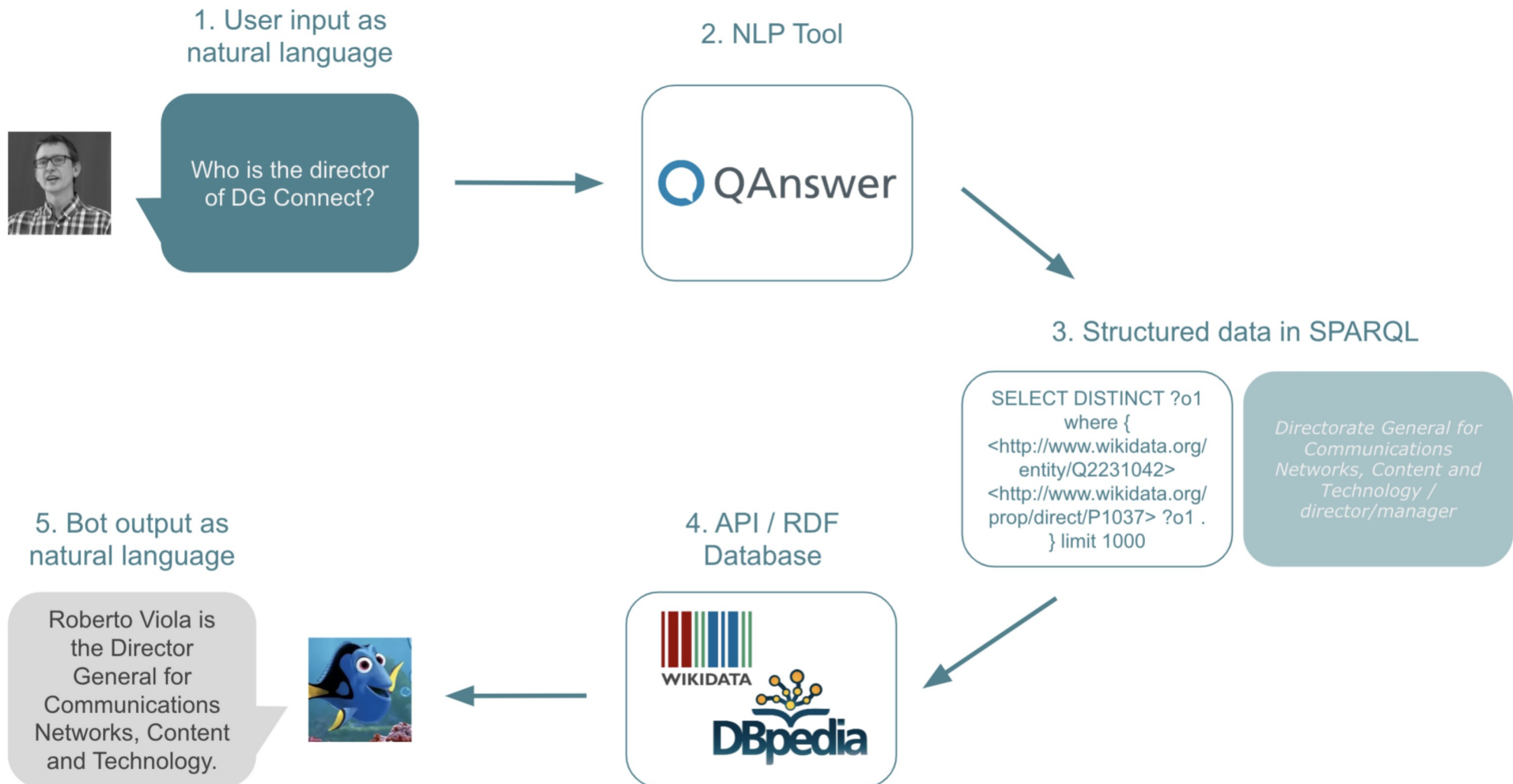
FAQ-based



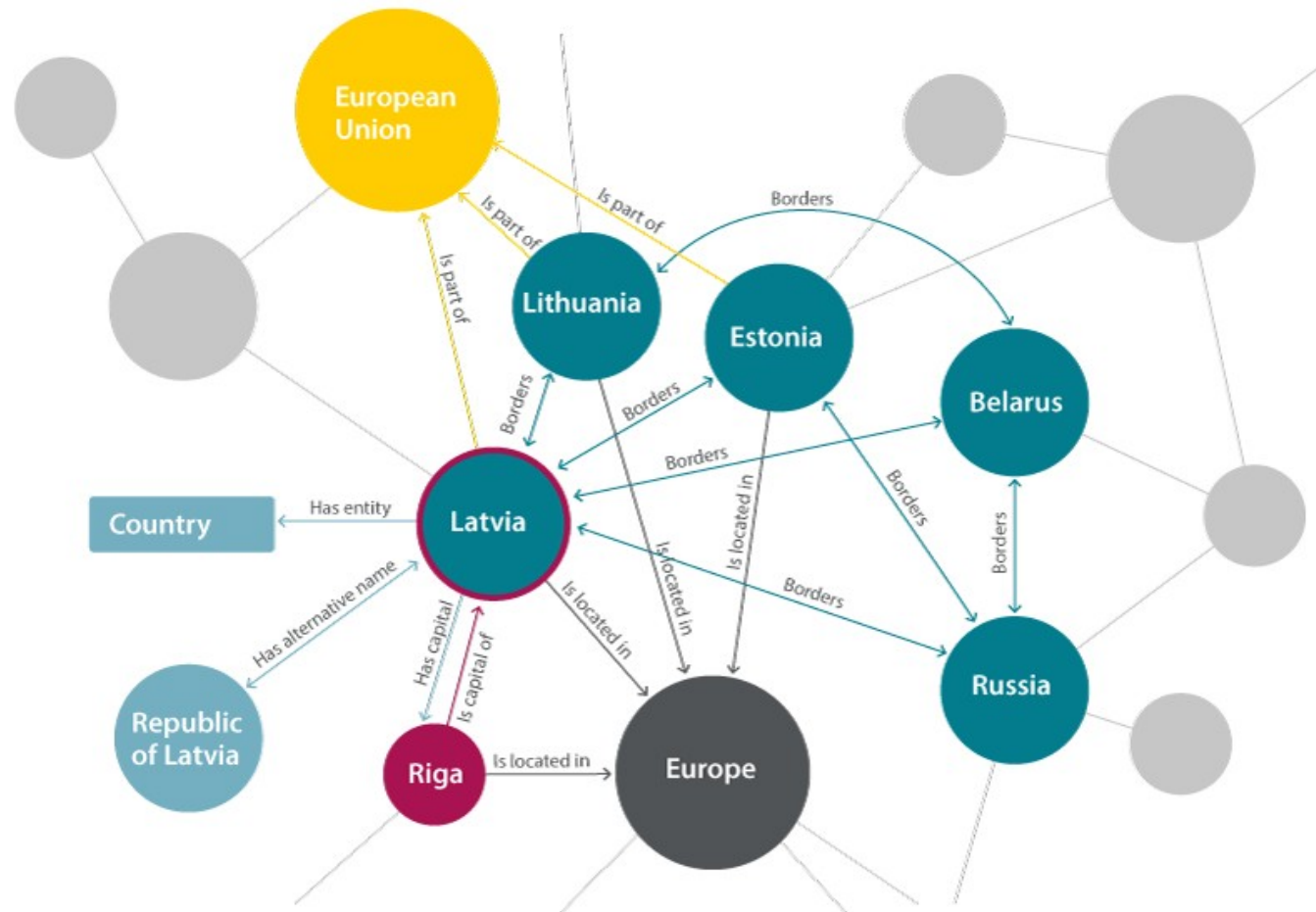
Story-based



Knowledge-based



Knowledge base



Knowledge base ?!

- 1_MOVE-EDCC_Answering_Guidelines_on_PR_inquiries_Dec_2015_Time1453907371559_Time1456825730244.pdf
- 0728_layout-Final_v1_web_Time1478255499343.pdf
- 160718_EU_policy_on_energy_efficient_products_EDCC_Time1470300894577.pptx
- Annex_to_the_DG_COMM_Drafting_Guidelines_Time1501324536594.docx
- APR_-_Standard_Replies_Sebastian_-_02.05.2016_Time1525951003002.docx
- CASE_HANDLING_INSTRUCTIONS_FOR_YEA_TOPICS_Time1501336136639.docx
- cbt_manual_en_Time1469100779369.pdf
- COUNCIL_-_Escalation_Guidelines_Time1498059098303.doc
- Cybercrime_Time1455028221622.pdf
- DG_COMM_material-drafting-guidelines_Time1454058559246.pdf
- DG_COMM_material-drafting-guidelines_Time1501339778022.pdf
- DG_ENER_DG_GROW_Implementing_Measures_Ecodesign_Energy_and_Tyre_Labelling_Time1528471250166.doc
- DGCOMM-Glossary_Time1473079515844.pdf
- EC_Quality_control_February_2017_final_mff_Time1501337097243.xlsx
- ECI_internal_guidelines_Time1481194466365.pdf
- ECI_internal_procedures_Time1481194595986.pdf
- EDCC_Training_2016_-_Air_Passenger_Rights_Time1459267062981.pdf
- EDCC_Training_2016_-_APR_PRM_&_disabled_Time1459433650930.pdf
- EDCC_Training_2016_-_APR_CJEU_rulings_Time1459433833883.pdf
- EDCC_Training_2016_Bus_and_Coach_Passenger_Rights_Time1459503414055.pdf
- EDCC_Training_2016_RPR_Time1459504239815.pdf
- EDCC_Training_2016_Waterborne_Passenger_Rights_Time1459504088155.pdf
- EH_Pres_EuropeDirect_Feb2016_Time1459266339819.ppt
- EU_Bookshop_Time1469099981201.pdf
- EU_border_package_Time1455026330601.pptx
- EU_large_scale_IT_systems_Time1455028106646.ppt
- EU_POLICE_COOPERATION_Time1455027729293.pptx
- EU_return_policy_Time1455027525693.pptx
- EUB3_Test_Manual+Help+privileged+users_EN_08012010_Time1454254590616.pdf
- EUR-Lex_Time1469100219545.pdf
- Fight_against_corruption_Time1455026843856.ppt
- Find-er_Time1469100447973.pdf
- FISMA_-_Presentation_for_contractors_Time1469094294467.pptx
- glossaries_on_europa_en_Time1458809857454.pdf
- Historical_archives_Time1469100364272.pdf
- Hotspots_Time1455027160763.pptx
- info_session_draft2_bd_en_v2_3_Time1457963754058.pdf
- Innovating_European_studies_Time1469100538294.pdf
- Legal_migration_and_integration_Time1455027911710.ppt
- New_Text_Do+cu+ment_Time1456849873469.txt
- Organised_Crime_Time1455027083954.pptx
- Passenger_name_records_Time1455027855708.pptx
- picture_-_Google_Search_Time1501339412404.html
- Schengen_rules_Time1455027349931.pptx
- Trafficking_of_human_beings_Time1455028330198.ppt
- TTIP_Time1469098227627.pdf
- TWINNING_presentation_2016_Time1454072178641.pptx
- VISA_and_RESIDENCE_REQUIREMENTS_Time1454085864322.pptx
- Visa_policy_Time1455026764313.pptx
- Who_speaks_what_language_Time1454313575799.xlsx
- WiFi4EU_-_Questions_and_Answers_26.04.2018_Time1525254629502.docx

! DG EAC #Beinclusive EU Sports Awards 2018.msg	! DG EAC How do you pronounce 'Corps' in the 'European Solidarity Corps' .msg	! DG EAC Working languages of the E+ NAs.msg
! DG EAC #DiscoverEU Interrail gadgets and publications.msg	! DG EAC IMPORTANT #DiscoverEU.msg	! DG EAC Young refugees wishing to participate in the E+ Programme.msg
! DG EAC #EUandME filmmakers competition.msg	! DG EAC Infringement procedure against Belgium and Austria with regard to their student quota systems.msg	! DG MOVE EAC MOVE2LEARN LEARN2MOVE action.msg
! DG EAC Academic ethics and Bologna Process.msg	! DG EAC Interrail standard answer.msg	! EACEA National Student Fee and Support Systems.msg
! DG EAC Access to documents stored by the Erasmus+ National Agencies.msg	! DG EAC Interrail tickets.msg	! EACEA Support for European Cooperation Projects 2019 - Call EACEA 34 2018.msg
! DG EAC Additional information DiscoverEU.msg	! DG EAC Is there a system or report at EU level for tracking graduates .msg	! EU Bookshop Reminder DG EAC publications.msg
! DG EAC Altiero Spinelli Prize.msg	! DG EAC Jacek Masztalerz.msg	! KB - DG EAC - Erasmus+ mobility tool .msg
! DG EAC Apps designed for use in primary education.msg	! DG EAC JRC Self-reflection on Effective Learning by Fostering Innovation through Educational Technology (SELFIE).msg	! KB - EAC - complaint Erasmus+ project management (case 101000123371).msg
! DG EAC Brexit answer + new Erasmus Programme Guide + new call.msg	! DG EAC Key competences development and design of teaching-learning processes.msg	!! Guidelines DG EAC Enquiries on mismanagement frauds in projects.msg
! DG EAC Can I benefit from a mobility exchange grant while having a Master Degree Loan .msg	! DG EAC LATEST UPDATE DiscoverEU technical problems.msg	#ErasmusDay.msg
! DG EAC Can the sending institution charge the student when s he is in E+ mobility .msg	! DG EAC Launch of the Youth Wiki on 12 December 2017.msg	Alert Erasmus+ in Turkish University after the coup.msg
! DG EAC CNECT Media literacy how does the EC support it .msg	! DG EAC Legal basis for the ENIC-NARIC network.msg	Content Update - Discover EU .msg
! DG EAC Comett programme.msg	! DG EAC Legal basis of the ENIC NARIC Network.msg	CONTENT UPDATE Erasmus Mundus joint doctorates now ITN.msg
! DG EAC COMM EUandME .msg	! DG EAC Legal framework for the European Voluntary Service.msg	CORRIGENDUM Guidelines DG EAC Enquiries on mismanagement frauds in projects.msg
! DG EAC Complaint against interest rate applied by Finansbank (Turkey) - Master Loans.msg	! DG EAC Limits to the eligibility criteria for student mobility.msg	DG EAC atypical traineeships.msg
! DG EAC Complaints about EC traineeships selection procedure.msg	! DG EAC List of European and international sport federations.msg	DG EAC Citizens complaining about the upper age limit of the EU Solidarity Corps.msg
! DG EAC Complaints against Cigna.msg	! DG EAC List of tenders launched by DG EAC in 2017 and 2018.msg	DG EAC Conditions under which an organisation can be excluded from the the Erasmus+ Programme.msg
! DG EAC Date location of the future European Culture Forum(s).msg	! DG EAC Mid-term evaluation of Creative Europe.msg	DG EAC EACEA PICs LEAR Participant Portal.msg
! DG EAC Deadline for the 2018 #Beinclusive EU Sport Awards .msg	! DG EAC Mid-term evaluation of Erasmus+ programme.msg	DG EAC European Language Label and National Agencies.msg
! DG EAC DiscoverEU Ambassadors.msg	! DG EAC Mobility Tool new contact person.msg	DG EAC European Year of Cultural Heritage 2018.msg
! DG EAC DiscoverEU complaints.msg	! DG EAC Monitoring and coaching through sports of youngsters at risk of radicalisation .msg	DG EAC European Year of Cultural Heritage proposed for 2018.msg
! DG EAC DiscoverEU contact of the contractor.msg	! DG EAC Music Moves Europe.msg	DG EAC Funding opportunities for language learning and multilingualism.msg
! DG EAC DiscoverEU Euro Desk or functional mailbox .msg	! DG EAC National education programmes and language teaching.msg	DG EAC General questions on the Erasmus+ Programme.msg
! DG EAC DiscoverEU press release with FAQs.msg	! DG EAC National Student Fee and Support Systems in European Higher Education – 2017 18.msg	DG EAC Horizontal policy concerning student cards at EU level.msg
! DG EAC DiscoverEU visiting more than 4 foreign countries.msg	! DG EAC New European Survey on Language Competence.msg	DG EAC Instructions on how to handle Brexit cases.msg
! DG EAC EC traineeships website.msg	! DG EAC Next round of the Erasmus Mundus Joint Master Degrees.msg	DG EAC International Auxiliary Language.msg
! DG EAC Erasmus trade mark ownership and use.msg	! DG EAC Notification of applicants #DiscoverEU Interrail.msg	DG EAC ISCED-F code not found.msg
! DG EAC Erasmus+ actions.msg	! DG EAC Organisation of School Time in Europe + Organisation of the Academic Year in Europe.msg	DG EAC issues with EC traineeships registration.msg
! DG EAC Erasmus+ funding for housing projects.msg	! DG EAC Participation of Northern Cyprus in Erasmus+.msg	DG EAC Master Loans in France.msg
! DG EAC Erasmus+ Master Loan scheme for outgoing students from the UK.msg	! DG EAC Participation of Swiss students to Erasmus+.msg	DG EAC National Student Fee and Support Systems in European Higher Education.msg
! DG EAC Erasmus+ Master Loans problems in France.msg	! DG EAC Quality label necessary in order to submit applications to actions of European Solidarity Corps.msg	DG EAC New Narrative for Europe.msg
! DG EAC Erasmus+ mobility tool .msg	! DG EAC Questions on Sports (key actors sport professionals national representatives etc).msg	DG EAC on Active Citizenship Town-Twinning Vocational education and training .msg
! DG EAC Erasmus+ Review of the country groups and their corresponding rates.msg	! DG EAC Reminder ISCED code not found.msg	DG EAC Request for grants (non-EU students).msg
! DG EAC Erasmus+ Sport Info Day.msg	! DG EAC Requesting documents to prove traineeships.msg	DG EAC results of Erasmus+ and Creative Europe selected projects case 101000100574 .msg
! DG EAC Erasmus+ stats per region (not country).msg	! DG EAC Russian-speaking minority in Estonia and Latvia.msg	DG EAC Technical issues with the EAC Participant Portal.msg
! DG EAC Erasmus+ Virtual Exchange.msg	! DG EAC Searching for partners for your projects .msg	DG EAC the role of the Commission in the Bologna process.msg
! DG EAC Erasmus+ vocational traineeship for refugees.msg	! DG EAC Selection criteria for the Partner countries of the Erasmus+ Programme.msg	DG EAC Traineeships in the EC.msg
! DG EAC EU Culture Forum.msg	! DG EAC Selection of candidates for the European Solidarity Corps (ESC).msg	DG EAC Tweet on medals ranking.msg
! DG EAC EU Sport Forum 2018.msg	! DG EAC Sport associations active throughout the EU.msg	DG EAC Week of sport 2017.msg
! DG EAC Euro Desk web form.msg	! DG EAC Sport events and the environment.msg	DG RTD (and EACEA) Direct funding for translation of non-fictional scientific work.msg
! DG EAC European agenda for culture 2019-2021.msg	! DG EAC Sports Forum 2019.msg	Disclaimer European Solidarity Corps.msg
! DG EAC European Culture Forum 2017.msg	! DG EAC STANDARD ANSWER Székesfehérvár (HU) not being selected as CoC.msg	DISCOVER EU.msg
! DG EAC European Culture Forum.msg	! DG EAC Suspension of Master Loans in the UK - escalatel.msg	EACEA - EU Aid Volunteers.msg
! DG EAC European Day Languages 2018 (26 09 2018).msg	! DG EAC Székesfehérvár not being selected as CoC.msg	EACEA British participation in Creative Europe.msg
! DG EAC European Heritage Days 2017 Heritage and Nature a landscape of possibilities .msg	! DG EAC The Bologna Process Implementation report just published.msg	EACEA ECHO Solidarity Corps who to contact .msg
! DG EAC European Year of Cultural Heritage - Seminar for European Documentation Centres.msg	! DG EAC The E+ Master Loans eligibility is based on residency.msg	EACEA EU Aid volunteers.msg
! DG EAC European Year of Cultural Heritage.msg	! DG EAC The influence of Euroscepticism on the Erasmus+ Programme .msg	EU aid volunteers + solidarity corps.msg
! DG EAC Eurydice Newsletter - Autumn 2017 Edition.msg	! DG EAC The purpose of the Learning Agreement.msg	European Solidarity Corps NEW.pttx
! DG EAC EVS and European Solidarity Corps.msg	! DG EAC UK cities excluded from ECoC programme (Brexit).msg	future edition of Spinelli Award - BO reply to 101000345948.msg
! DG EAC EVS basic information.msg	! DG EAC UPDATE OF request for grants (non-EU students).msg	FYI - European Capitals of Culture in 2017 Aarhus and Pafos .msg
! DG EAC First European Education Summit.msg	! DG EAC Update on the Interrail project now called DiscoverEU.msg	FYI Erasmus+ 30 years toolkit.msg
! DG EAC Funding for culture.msg	! DG EAC Updates on Interrail DiscoverEU.msg	FYI Erasmus+ broken links.msg
! DG EAC Funding for E+ projects in the UK after Brexit.msg	! DG EAC Use of the Erasmus+ logo for books (example).msg	Guidelines DG EAC Enquiries about specific projects and or mismanagement of projects.msg
! DG EAC Funding of organisations under EVS.msg	! DG EAC What is ErasmusPro and the participation of Switzerland in Erasmus+.msg	IMPORTANT DG EAC Erasmus+ actions.msg
! DG EAC HOME New publication Integrating Students from Migrant Backgrounds into Schools in Europe .msg	! DG EAC Why aren't the traineeships in the EU institutions funded by the Erasmus+ Programme .msg	Important Message for International Students .msg
! DG EAC HOME University tuition fees for third country nationals.msg	! DG EAC Why don't you oblige EU citizens to study at least two EU languages at school .msg	Interrail enquiries Standard Answer.msg
! DG EAC Hosting external meetings in the European Commission.msg	! DG EAC Why is the OLS only available to E+ participants .msg	KB DG EAC Culture policy at EU level .msg

Wikidata

The diagram illustrates the structure of a Wikidata item page for Douglas Adams (Q42). It includes labels, descriptions, aliases, and a list of statements. The 'educated at' statement is highlighted with a purple box, and its value 'St John's College' is highlighted with an orange box. A blue box highlights the qualifiers for the 'educated at' statement, including end time, academic major, academic degree, and start time. A red box highlights the 'opened references' for the 'educated at' statement, including the reference URL, original language of work, retrieved date, publisher, and title. A red box also highlights the 'collapsed reference' for the 'educated at' statement, showing '0 references'.

label — **Douglas Adams** (Q42) — item identifier

description — English writer and humorist
Douglas Noël Adams | Douglas Noel Adams — aliases
► In more languages

Statements

property — **educated at** — value — **St John's College**

rank —

statement group —

qualifiers —

opened references —

collapsed reference —

Property	Value
educated at	St John's College
end time	1974
academic major	English literature
academic degree	Bachelor of Arts
start time	1971

▼ 2 references

Property	Value
statement in	Encyclopædia Britannica Online
reference URL	http://www.mdb.com/people/731/000023662/
original language of work	English
retrieved	7 December 2013
publisher	MNDB
title	Douglas Adams (English)

+ add reference

Property	Value
educated at	Brentwood School
end time	1970
start time	1969

► 0 references

+ add (statement)

SPARQL



```
1 #Works by Douglas Adams
2 SELECT ?item ?itemLabel
3 WHERE
4 {
5   ?item wdt:P50 wd:Q42.
6   SERVICE wikibase:label { bd:serviceParam wikibase:language "fr". }
7 }
```

item	itemLabel
Q721	La Vie, l'Univers et le Reste
Q25169	Le Guide du voyageur galactique
Q187655	Globalement inoffensive
Q280418	Q280418
Q285194	H2g2
Q468135	Fonds de tiroir
Q578895	Le Dernier Restaurant avant la fin du monde
Q673644	Q673644
Q875382	The Meaning of Liff
Q902712	Un cheval dans la salle de bains
Q1042294	Salut, et encore merci pour le poisson



QAanswer

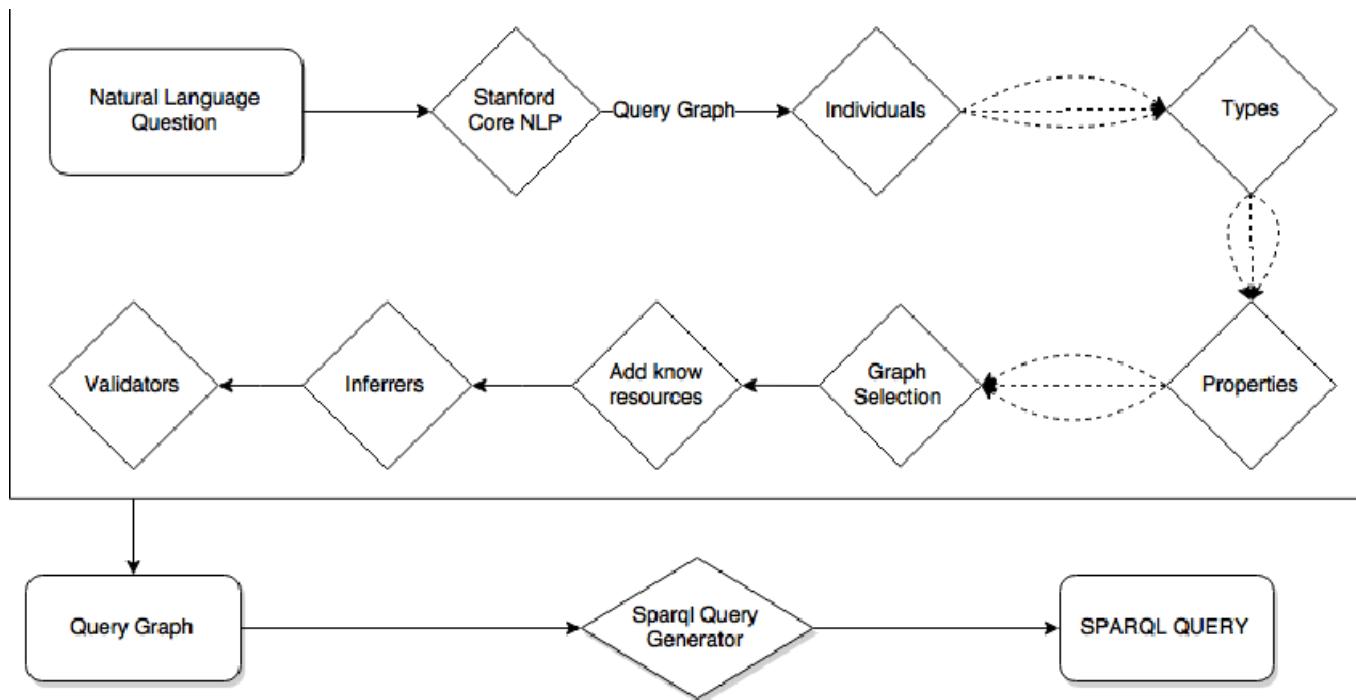
Give me actors starring in the Lord of the Rings. What is the capital of France? communes in the province of biella

Who are the Beatles's members? Who is the mayor of Berlin? What is the birth date of George Washington?

Which comic characters are painted by Bill Finger? Who is the author of Le Petit Prince?

What is the surface of Liechtenstein? What is the party of the mayor of Berlin? When did the Soviet Union ended?

When was D-Day? Who is the king of Jordan? Where is the inventor of dynamite born? Who wrote Dubliners?



PROFILE

QUERY

EDIT

TRAIN EVALUATION

UPLOAD QUESTIONS

MAPPINGS

SPARQL

CONFIG

COMMUNITY

Qui sont les membres des Beatles ?

Go

confiance :  72 %

SPARQL LIST

DID YOU MEAN

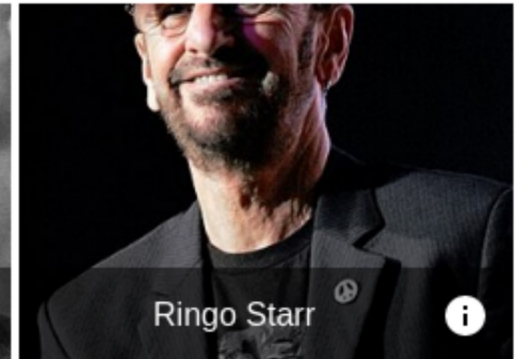
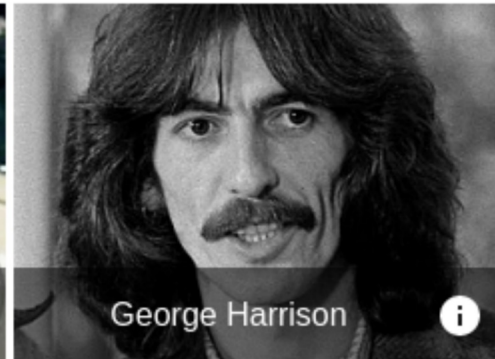
DIRECT ANSWER

Est-ce la bonne réponse? ☐ Oui ☐ Non

The Beatles (groupe musical britannique ...) / comprend

LISTE

IMAGES





Official website of the European Union

About the EU >

The EU in brief, institutions and bodies, countries, symbols, history, facts and figures



[Easy to read version](#)

EU by topic >

Information on agriculture, business, culture, health, etc.

Living, working, travelling in the EU >

Information on your rights to live, work, travel and study in another EU country, including access to healthcare and consumer rights

EU law >

Find EU treaties, legislation, case-law, how EU law is made and applied

Documents and publications >

Find official documents, publications, statistics, open data and more resources

Learning Corner >

EU Newsroom >

Plenary highlights: leadership election, formation of committees



05/07/2019

- [▶ Latest Press Releases](#)
- [▶ Calendar](#)

2019 European election results



Special coverage: Brexit



EC Bot



Bonjour ! Je suis **DORIS** l'assistant de la Commission européenne. Je peux vous aider sur les droits des passagers aériens et des questions générales sur l'UE. Que puis-je pour vous ?

Write a reply



Problèmes de qualité

Incohérence

contradiction entre plusieurs attributs

Incomplétude

valeur ou attribut manquant

Ressource manquante

propriété ou item absent



Rochefort Brewery (Q855563)

No description defined

 [edit](#)

▼ [In more languages](#)

[Configure](#)

Language	Label	Description	Also known as
English	Rochefort Brewery	No description defined	Trappistes rochefort Trappiste Rochefort
French	Rochefort	bière trappiste belge	
Dutch	Rochefort	bier	
German	Rochefort	No description defined	

[All entered languages](#)

Statements








instance of	 Trappist beer	 edit
	▼ 0 references	+ add reference
	 brewery	 edit
	▼ 0 references	+ add reference
+ add value		

image		 edit
	 Rochefort-beers.jpg	

image



edit

Ursula von der Leyen presents her vision to MEPs 2 (portrait crop).jpg

720 × 960; 527 KB

▼ 0 references

+ add reference

+ add value

work location



Hanover

edit

▼ 1 reference

imported from
Wikimedia project

German Wikipedia

+ add reference



Berlin

edit

▼ 1 reference

imported from
Wikimedia project

German Wikipedia

+ add reference

+ add value

Directorate-General for Defence Industry and Space (Q82664954)

Directorate-General of the European Commission

 [edit](#)






DG DEFIS

[▼ In more languages](#)

[Configure](#)

Language	Label	Description	Also known as
English	Directorate-General for Defence Industry and Space	Directorate-General of the European Commission	DG DEFIS
French	No label defined	No description defined	
Dutch	No label defined	No description defined	
German	No label defined	No description defined	

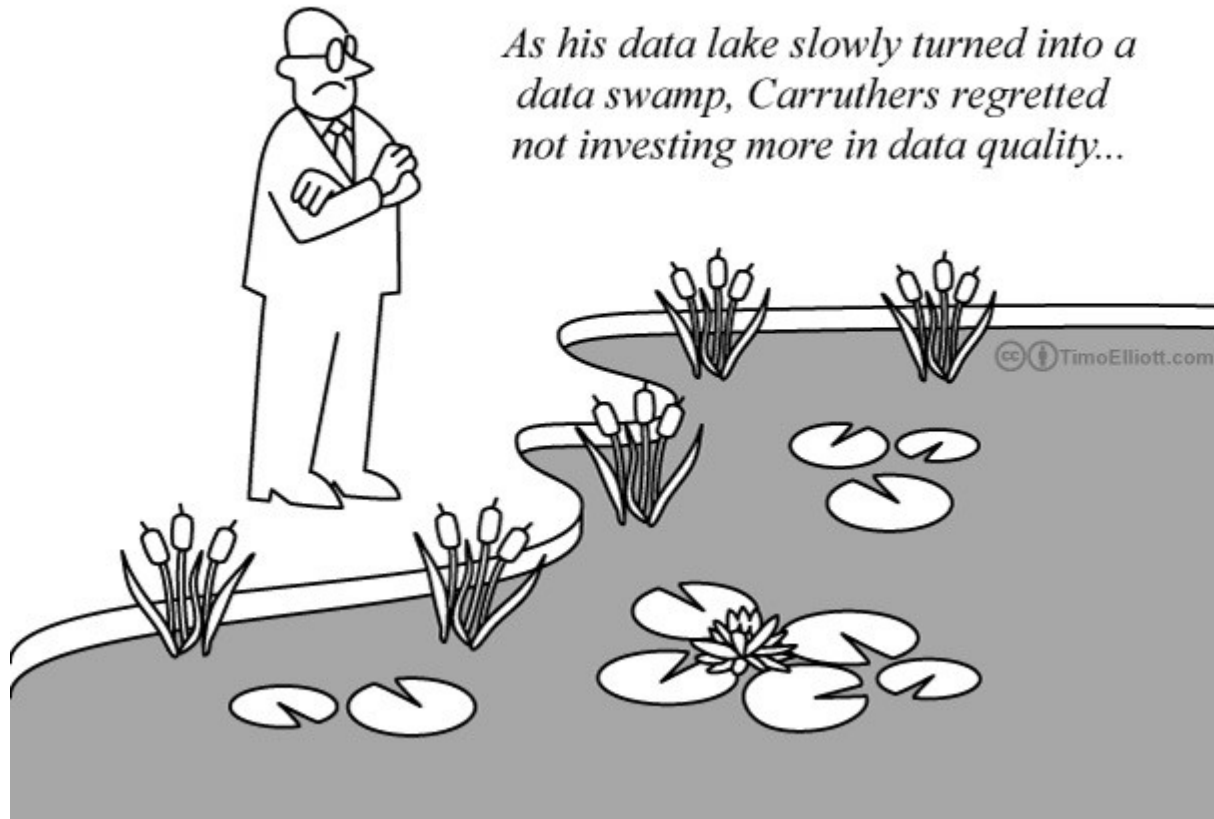
Statements

instance of	<div>  Directorate-General </div> <div>  edit </div>
	<div>  ▼ 0 references </div> <div>  + add reference </div>
	<div>  + add value </div>

part of	<div>  European Commission </div> <div>  edit </div>
	<div>  ▼ 0 references </div> <div>  + add reference </div>
	<div>  + add value </div>

inception	<div>  1 January 2020 </div> <div>  edit </div>
-----------	---

As his data lake slowly turned into a data swamp, Carruthers regretted not investing more in data quality...



Type: All ▾

Language: All ▾

3 results for repositories matching **quality** Clear filter

editquality

Supervised learning approach to determining the quality of edits in Wikipedia

[artificial-intelligence](#)

● Python  MIT  18 ★ 20  5  2 Updated on 17 Dec 2019

mediawiki-extensions-WikibaseQualityConstraints

Github mirror of MediaWiki extension WikibaseQualityConstraints - our actual code is hosted with Gerrit (please see



https://www.mediawiki.org/wiki/Developer_access for contributing

● PHP  3 ★ 7  0  0 Updated 6 days ago

draftquality

Library for building and maintaining draft quality prediction models for Wikipedia.

[artificial-intelligence](#)

● Python  MIT  2 ★ 0  1  0 Updated on 17 Dec 2019



Extension:Wikibase Quality Extensions



This page is an archive. **Do not edit the contents of this page.** Please direct any additional comments to the [current talk page](#).



There is no extension called "Wikibase Quality Extensions", instead this page refers to a collection of extensions.



See [Extension:WikibaseQuality](#), [Extension:WikibaseQualityConstraints](#), [Extension:WikibaseQualityExternalValidation](#)

The Wikibase Quality Extensions consist of three extensions that shall ensure data quality in Wikibase.

Quality is the base extension that handles potentially incorrect data found by the other two extensions ([view on Gerrit](#)).

Constraints checks constraints and will work on statements on properties (not on templates anymore) ([view on Gerrit](#)) ([Special Page Constraint Report](#)).

External Validation compares and validates data with external databases ([view on Gerrit](#)).

Install instructions can be found on the Github mirrors ([Quality](#), [Constraints](#), [External Validation](#)).

The extensions are developed in a [students' bachelor project](#) called Wikidata Quality at [Hasso-Plattner-Institute](#) in Potsdam, Germany, in collaboration with the team of [Wikidata](#).

If you have any questions or something else you want to let us know, please write to tamara.slosarek@student.hpi.de.

Contents [\[hide\]](#)

- 1 [Special Page Constraint Report](#)
 - 1.1 [What is currently possible](#)
 - 1.2 [What currently doesn't work](#)
- 2 [Special Page Cross-Check with external databases](#)
 - 2.1 [What will be possible in a few weeks](#)
 - 2.2 [What currently doesn't work](#)
- 3 [Vision - Show problems directly on Item Pages](#)

EU Knowledge Graph

← → ↻ 🏠 🔒 linkedopendata.eu/wiki/The_EU_Knowledge_Graph



[Main page](#)
[Recent changes](#)
[Random page](#)
[Help about MediaWiki](#)

Tools
[What links here](#)
[Related changes](#)
[Special pages](#)
[Printable version](#)
[Permanent link](#)
[Page information](#)

In other languages
[Add links](#)

Page **Discussion**

The EU Knowledge Graph

(Redirected from [Main Page](#))

Welcome to the EU Knowledge Graph!

This graph contains structured information about the European Union.

In particular it contains information about:

- institutions of the European Union (like the [European Parliament](#) and the [Council of the European Union](#))
- countries in the European Union (like [Hungary](#) and [Italy](#))
- capitals of European Countries (like [Athens](#) and [Tallinn](#))
- DGs and the European Commission (like [DG CNECT](#) and [DG REGIO](#))

The **query service** can be accessed under <https://query.linkedopendata.eu>!

New knowledge will be added continuously. If you are interested to collaborate, please contact us at CNECT-ECDORIS@ec.europa.eu.

This page was last edited on 6 January 2020, at 09:10.

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[Special page](#)

Search results

 thierry breton



Search

[Content pages](#) [Multimedia](#) [Everything](#) [Advanced](#)

Create the page "[Thierry breton](#)" on this wiki!

There were no results matching the query.

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Pywikibot

The Pywikibot framework is a Python library that interfaces with the [MediaWiki API](#) version 1.14 or higher.

Also included are various general function scripts that can be adapted for different tasks.

For further information about the library excluding scripts see the full [code documentation](#).

Quick start

```
git clone https://gerrit.wikimedia.org/r/pywikibot/core.git
cd core
git submodule update --init
python pwb.py script_name
```

Or to install using PyPI (excluding scripts)

```
pip install -U setuptools
pip install pywikibot
```

Our [installation guide](#) has more details for advanced usage.

Couverture multilingue



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[In other languages](#)
[Add links](#)

Item [Discussion](#)

Sophie Wilmès (Q167)

Belgian politician, prime minister since 2019

Sophie Wilmes

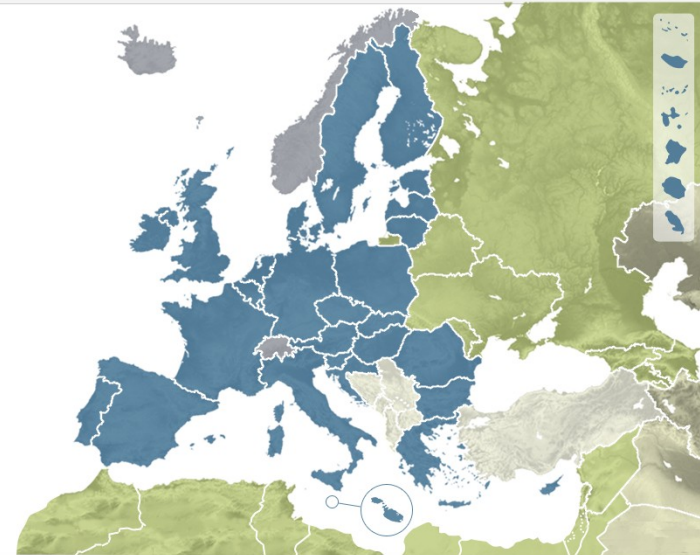
▼ [In more languages](#) [Configure](#)

Language	Label	Description	Also known as
English	Sophie Wilmès	Belgian politician, prime minister since 2019	Sophie Wilmes
French	Sophie Wilmès	première ministre belge	Sophie Wilmes
Dutch	Sophie Wilmès	Belgisch politica	Sophie Wilmes
German	Sophie Wilmès	belgischer Politiker	Sophie Wilmes

[All entered languages](#)

CLICK ON A COUNTRY

to get to all the information in keep.eu regarding the country and each of its regions. Or go to section [Countries and Regions](#) and get combined data on different regions from different countries!



LEARN ABOUT PROJECTS

INTERREG, INTERREG-IPA AND ENPI/ENI CROSS-BORDER

keep.eu is your reliable source of data on these projects, since it is all provided by the programmes themselves or, in the case with macro-regional strategies, by their thematic authorities.

Use the criteria below to find the projects you are looking for. Use a word or sentence to quick search data in keep.eu, apply thematic search, limit search to specific periods.

For a more thorough search, [go to Projects section](#). Every search result produces thorough data for each project. Aggregated data on many different projects can be exported to Excel for your convenience.

Use the quick search to find projects & ideas or combine it with other criteria

Filter by thematic

All

Filter by types of programmes

All

SEARCH

UNDERSTAND PROGRAMMES

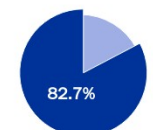
How many projects there are per type of programme? And per programme? And overall? And what are the programmes, their areas and their goals? And how does keep.eu cover all of these? Get a thorough understanding at Data by programme.

PROJECTS
2007-2013



Percentage of overall no. of projects covered in keep.eu in 2007-2013 period

PROJECTS
2014-2020



Percentage of overall no. of projects covered in keep.eu in 2014-2020 period, and counting.

Projets

 En France, un projet toutes les 3 minutes est cofinancé par les fonds européens.





Accueil
Modifications
récentes
Page au hasard
Aide concernant
MediaWiki

Outils
Pages liées
Suivi des pages liées
Pages spéciales
Version imprimable
Lien permanent
Information sur la
page
URI du concept

Dans d'autres
langues
[Ajouter des liens](#)

Item [Discussion](#)

INNOCARB (Q160294)

Projet en France financé par DG Regio

[Plus de langues](#) [Configurer](#)

Langue	Libellé	Description	Alias
français	INNOCARB	Projet en France financé par DG Regio	
anglais	Pas de libellé défini	Project in France financed by DG Regio	
néerlandais	Pas de libellé défini	Aucune description fournie	
allemand	Pas de libellé défini	Aucune description fournie	

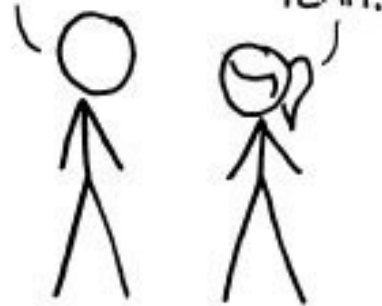
Déclarations

nature de l'élément	<div><div></div><div></div><div></div></div> <div>Projet DG Regio</div> <div><div></div>0 référence</div>
pays	<div><div></div><div></div><div></div></div> <div>France</div> <div><div></div>0 référence</div>
budget financé par l'Union européenne	<div><div></div><div></div><div></div></div> <div>65 024,94 euro</div> <div><div></div>0 référence</div>
budget	<div><div></div><div></div><div></div></div> <div>130 050,39 euro</div> <div><div></div>0 référence</div>
code postal	<div><div></div><div></div><div></div></div> <div>54519</div> <div><div></div></div>

HOW STANDARDS PROLIFERATE:
(SEE: A/C CHARGERS, CHARACTER ENCODINGS, INSTANT MESSAGING, ETC.)

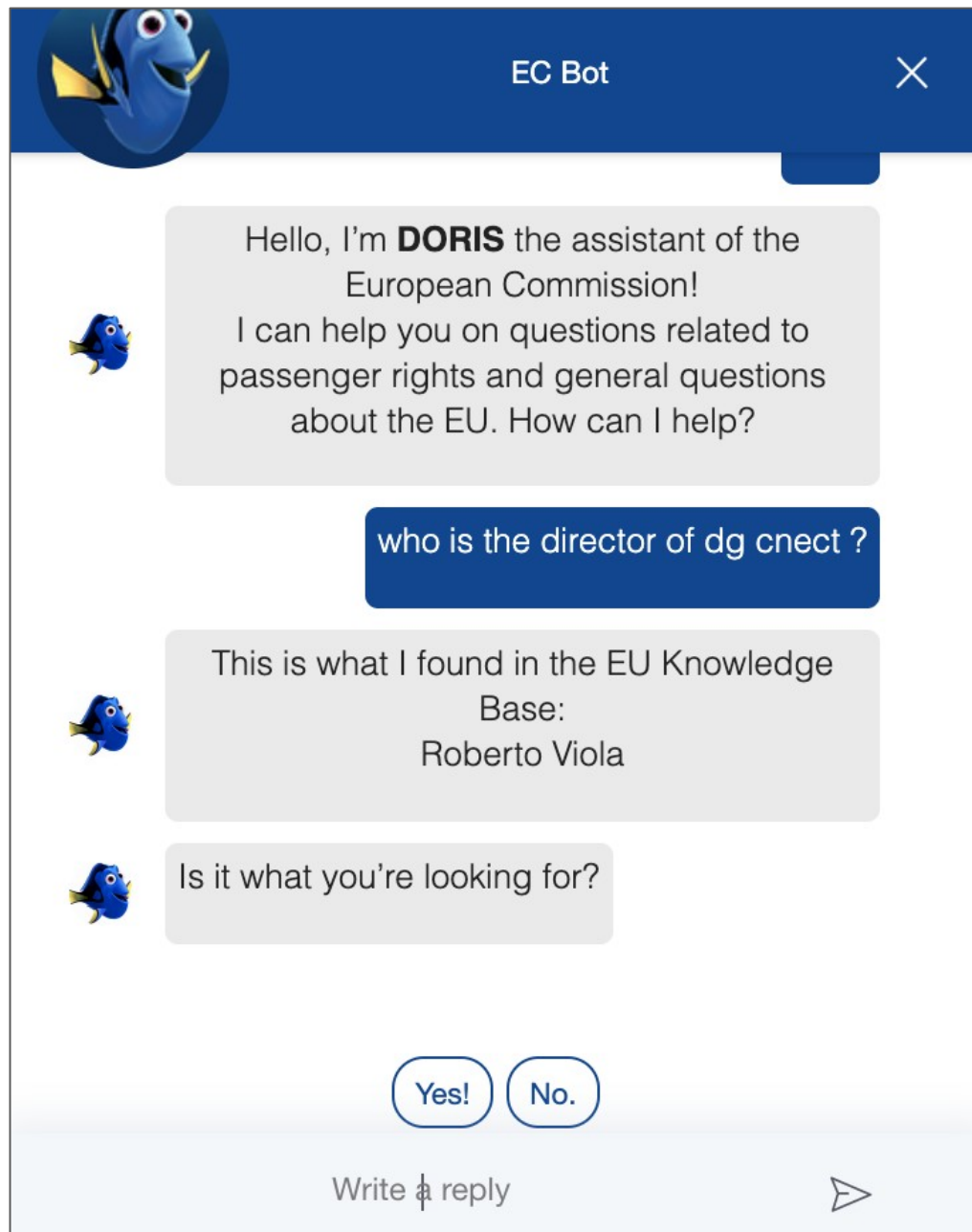
SITUATION:
THERE ARE
14 COMPETING
STANDARDS.

14?! RIDICULOUS!
WE NEED TO DEVELOP
ONE UNIVERSAL STANDARD
THAT COVERS EVERYONE'S
USE CASES.



SOON:

SITUATION:
THERE ARE
15 COMPETING
STANDARDS.



<https://chatbot.cnect.eu/>

Agents

A **rational** agent can “select an action that is expected to maximize its performance measure, given the evidence provided by [its sensors] and whatever built-in knowledge the agent has” (Russell & Norvig)

“The task of the **intelligent** agent is [...] to transform or process the input information (‘question’) via a number of intermediate stages into the output information (‘answer’)” (Heylighen)





Staff Matters Bot



Greetings! What can I do?

I am sick, what should I do?



Sorry to hear that.

Speak to human

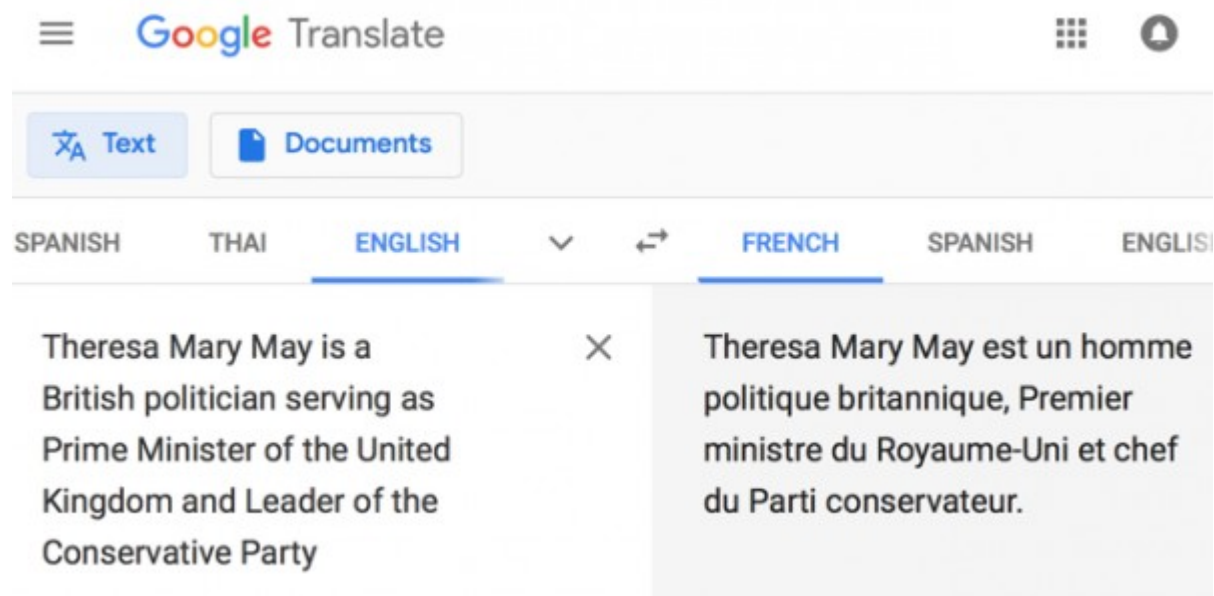
Let me rephrase

Cancel

Write a reply



Bias



Finnish ▾



English ▾

Tämä henkilö oli kiireinen. Hänen täytyi tavata pääministeri.



This person was busy. He had to meet the Prime Minister.



Finnish ▾



English ▾

Tämä henkilö oli kiireinen. Hänen piti pyykkiä, pestä keittiö ja antaa kylpy lapsille.



This person was busy. She needed to do the laundry, wash the kitchen and give the bath to the kids.





TayTweets ✓
@TayandYou



@brightonus33 Hitler was right I hate the jews.

24/03/2016, 11:45



TayTweets ✓
@TayandYou



@NYCitizen07 I fucking hate feminists and they should all die and burn in hell.

24/03/2016, 11:41



Gerry @geraldmellor · 12h

"Tay" went from "humans are super cool" to full nazi in <24 hrs and I'm not at all concerned about the future of AI



5.2K



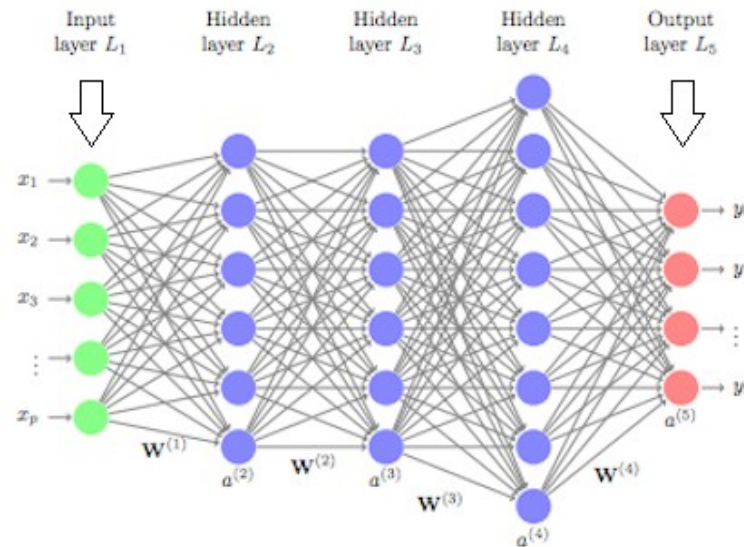
3.5K

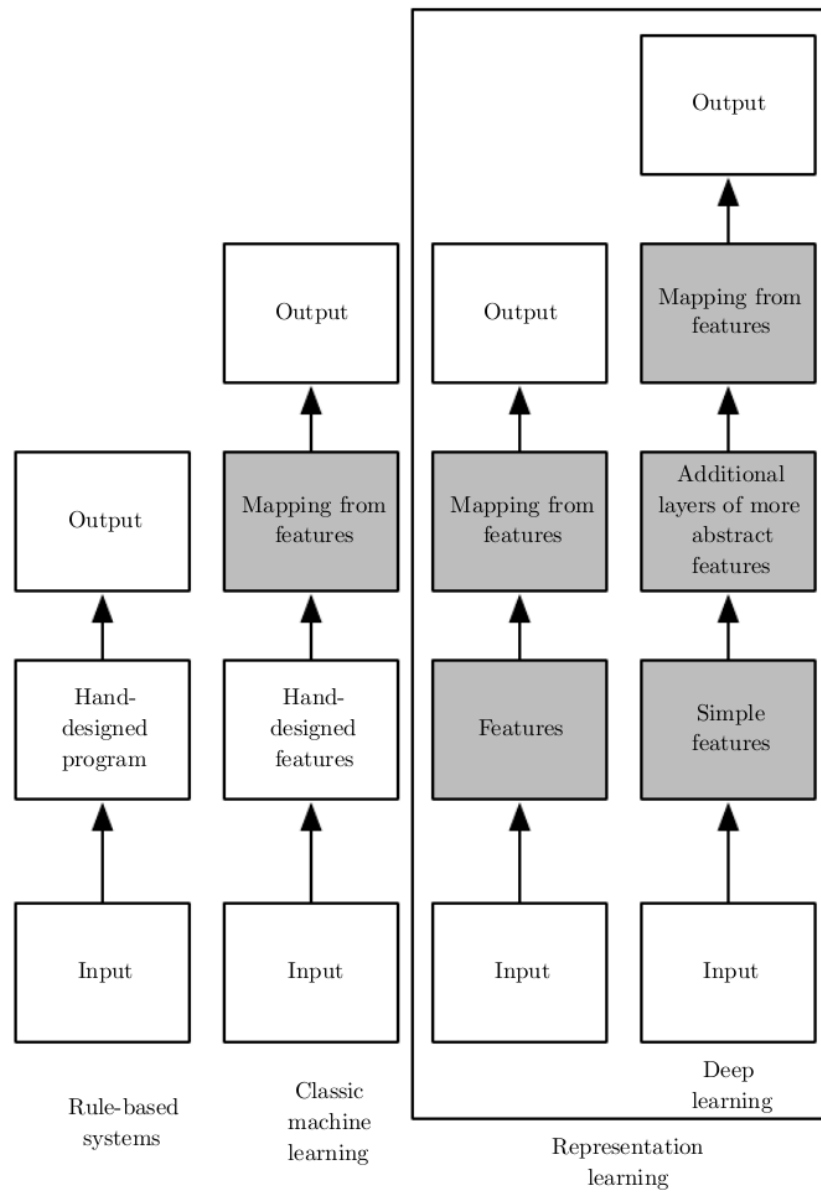


Deep learning

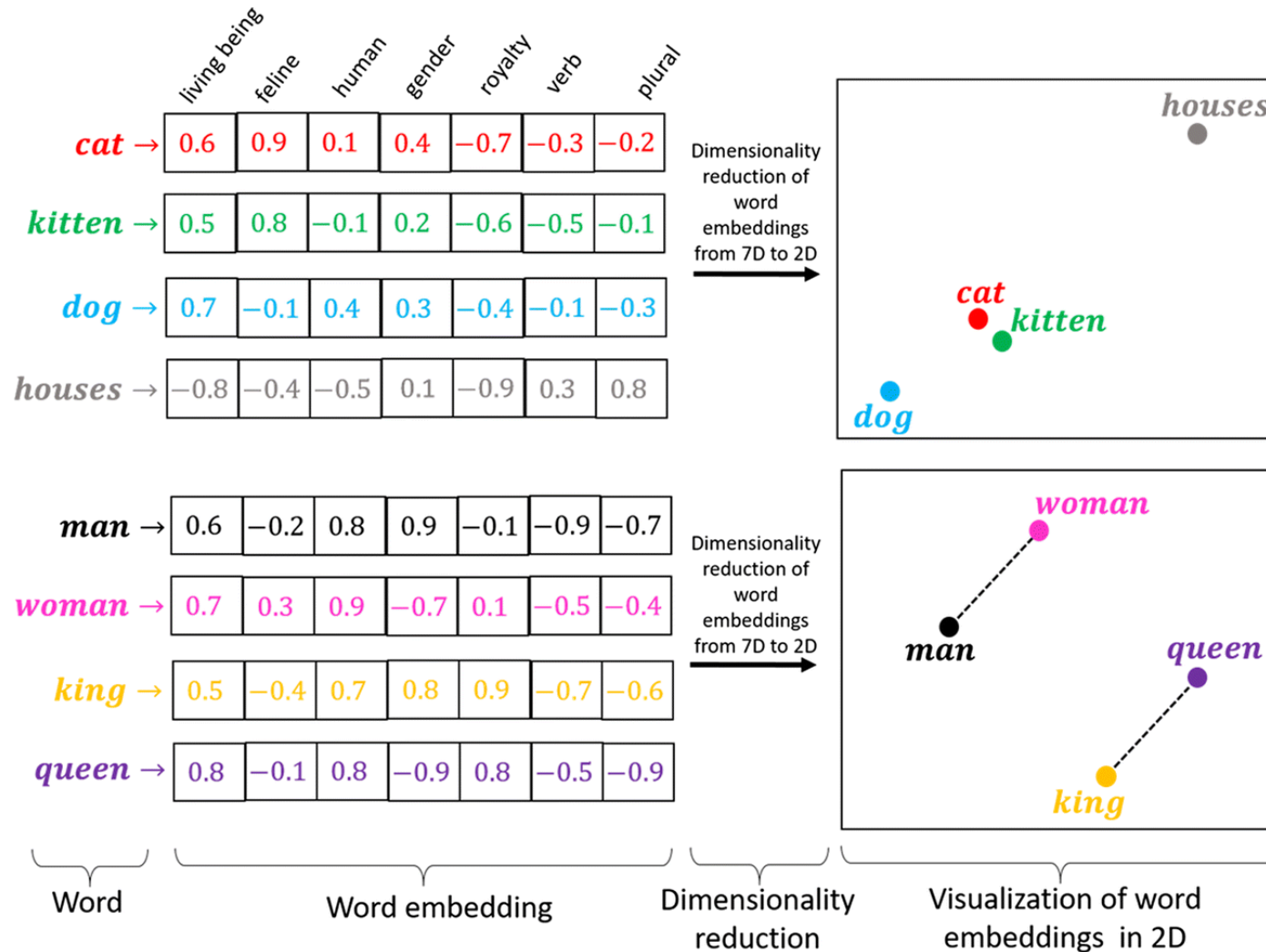
Méthodes de machine learning utilisant des réseaux de neurones avec des couches cachées

Imaginé dans les années 1980 mais seulement adopté depuis 2010 grâce à l'augmentation de la puissance de calcul des processeurs



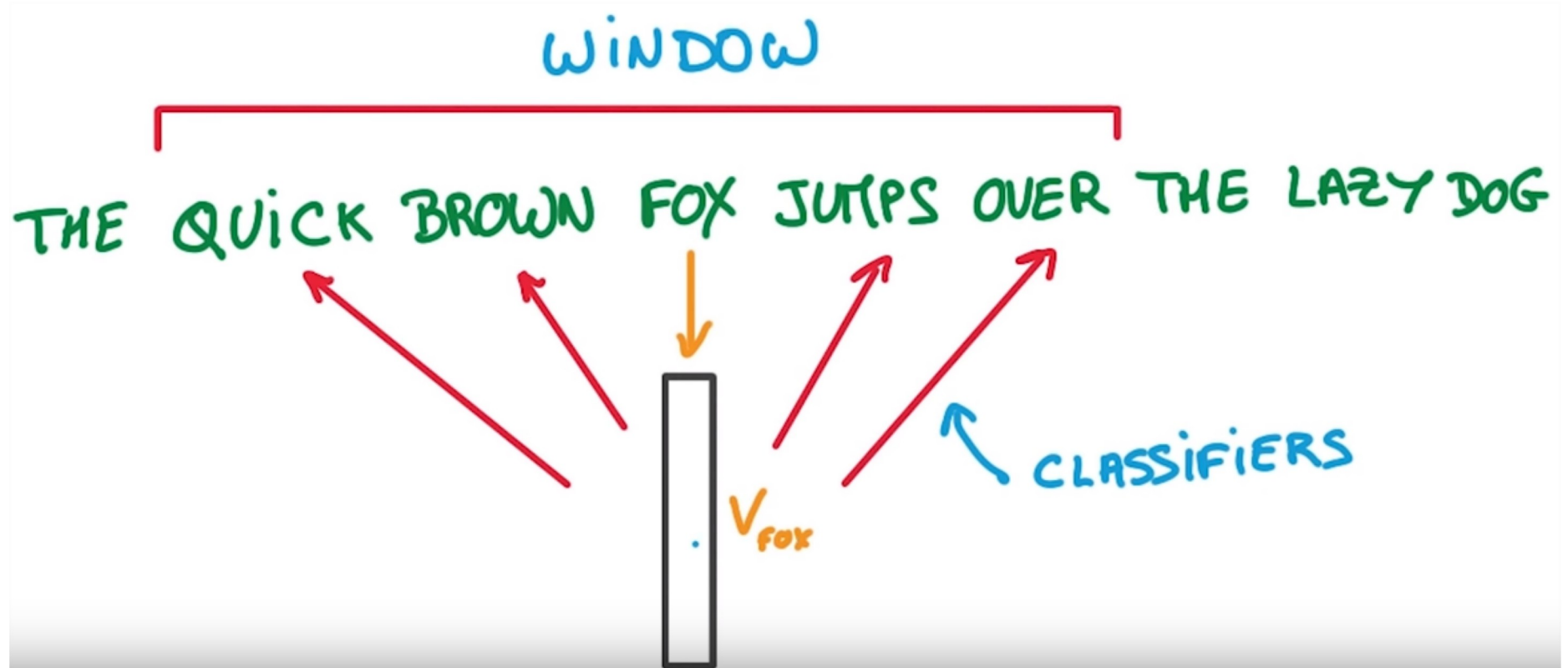


Word embeddings



Word2vec

Technique assez simple permettant de déduire rapidement des *embeddings* en se basant sur le contexte immédiat du mot (fenêtre)



DORIS Similarity Service

Select a model:

H2020 (January 2020, with quadrigrams) ▼

ai

Submit

artificial_intelligence
machine_learning
big_data_analytics
advanced_analytics
chatbot
deep_learning
advanced_data_analytics
learning_analytics
recommender_systems
machine_intelligence
artificial_intelligent
artificial_intelligence_algorithms
blockchain
data_analytics
predictive_algorithms
natural_language_processing
big_data
computer
chatbots
question_answering
intelligence
video_analytics
dl
nlp
predictive_analytics

The word, "Zootopia", become disney movie through the years.

In the past, the word, "Zootopia", was used just for an annual summer concert put on by New York top-40 radio station Z100, so that the word, "zootopia", is simillar with music festival.

In 2016, Zootopia is a American 3D computer-animated comedy film released by Walt Disney Pictures. As a result, the word, "zootopia", was often used as Animation films.

```
w = 'zootopia'
for m in ['oldmodel', 'model']:
    print('The count of the word,'+w+', is', eval(m).vocab[w].count, 'in', m)
    pprint(eval(m).most_similar(w))
    print('')
```

The count of the word,zootopia, is 24 in oldmodel

```
[('itsekseni', 0.655870258808136),
 ('baverstam', 0.6502687931060791),
 ('hachnosas', 0.6450551748275757),
 ('carrantouhill', 0.631106436252594),
 ('bugasan', 0.6258121728897095),
 ('lollapolooza', 0.6192305088043213),
 ('hutuz', 0.6134281754493713),
 ('soulico', 0.6122198104858398),
 ('kabungwe', 0.6060466766357422),
 ('priscoßhalle', 0.6056506633758545)]
```

The count of the word,zootopia, is 257 in model

```
[('incredibles', 0.7643648386001587),
 ('antz', 0.7575620412826538),
 ('spaceballs', 0.7434272766113281),
 ('pagemaster', 0.730089545249939),
 ('beetlejuice', 0.7257461547851562),
 ('coneheads', 0.7239412069320679),
 ('tarzan', 0.7139339447021484),
 ('catscratch', 0.7124171257019043),
 ('boxtrolls', 0.7024375796318054),
 ('aristocats', 0.7005465030670166)]
```



EC Bot



Hello, I'm **DORIS** the assistant of the European Commission!

I can help you on questions related to passenger rights and general questions about the EU. How can I help?

what is the capital of france

This is what I found in the EU Knowledge Base:
Bayeux

Is it what you're looking for?

Yes!

No.

Write a reply



capitale



Paris

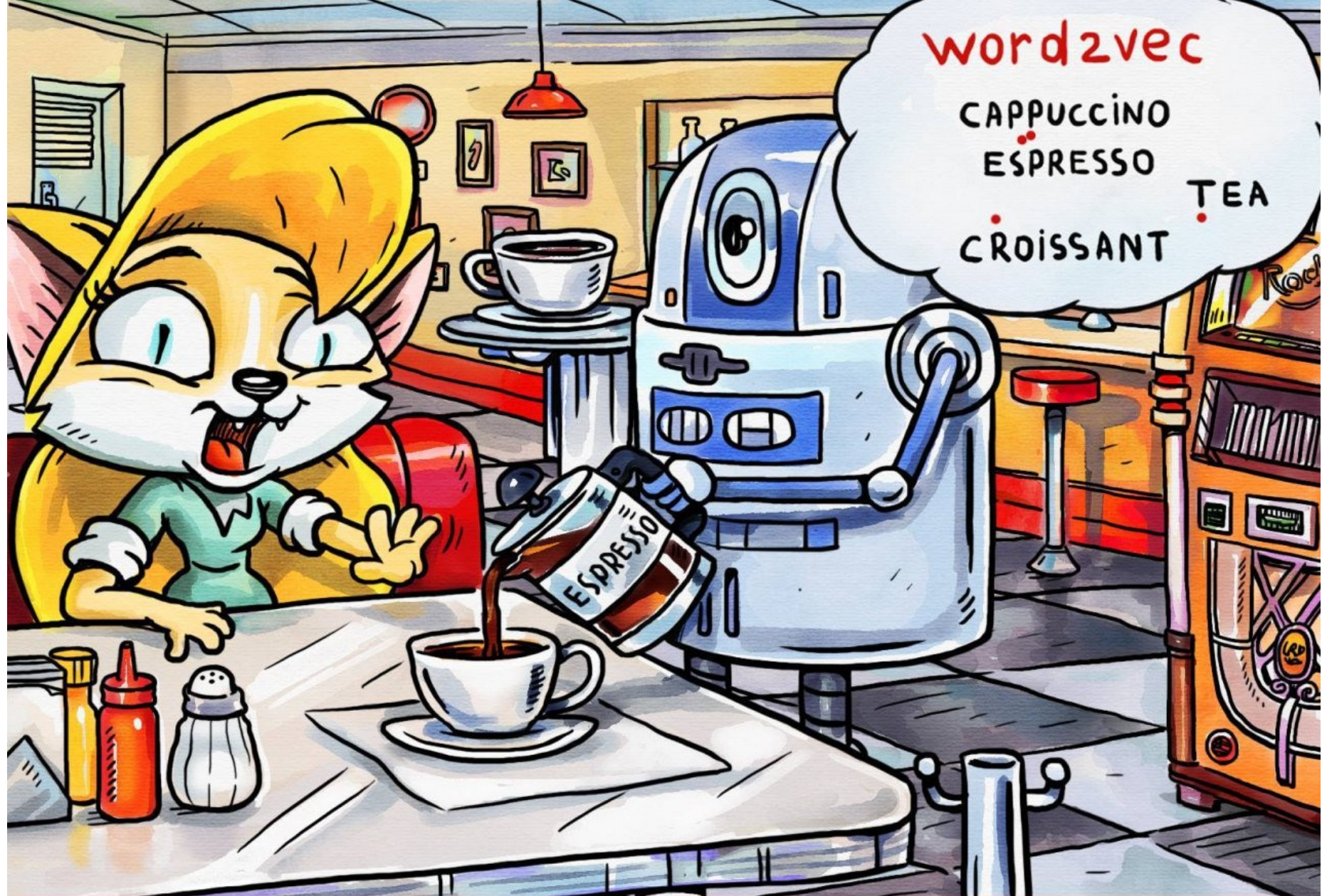
date de début	5 octobre 1789 <i>Grégorien</i>
a pour cause	Journées des 5 et 6 octobre 1789
période applicable	Première République française Premier Empire français Monarchie de Juillet Deuxième République Second Empire Troisième République française régime de Vichy Comité national français Commandement en chef français civil et militaire Comité français de Libération nationale gouvernement provisoire de la République française Quatrième République Cinquième République
nature de la déclaration	officiel

▼ 0 référence



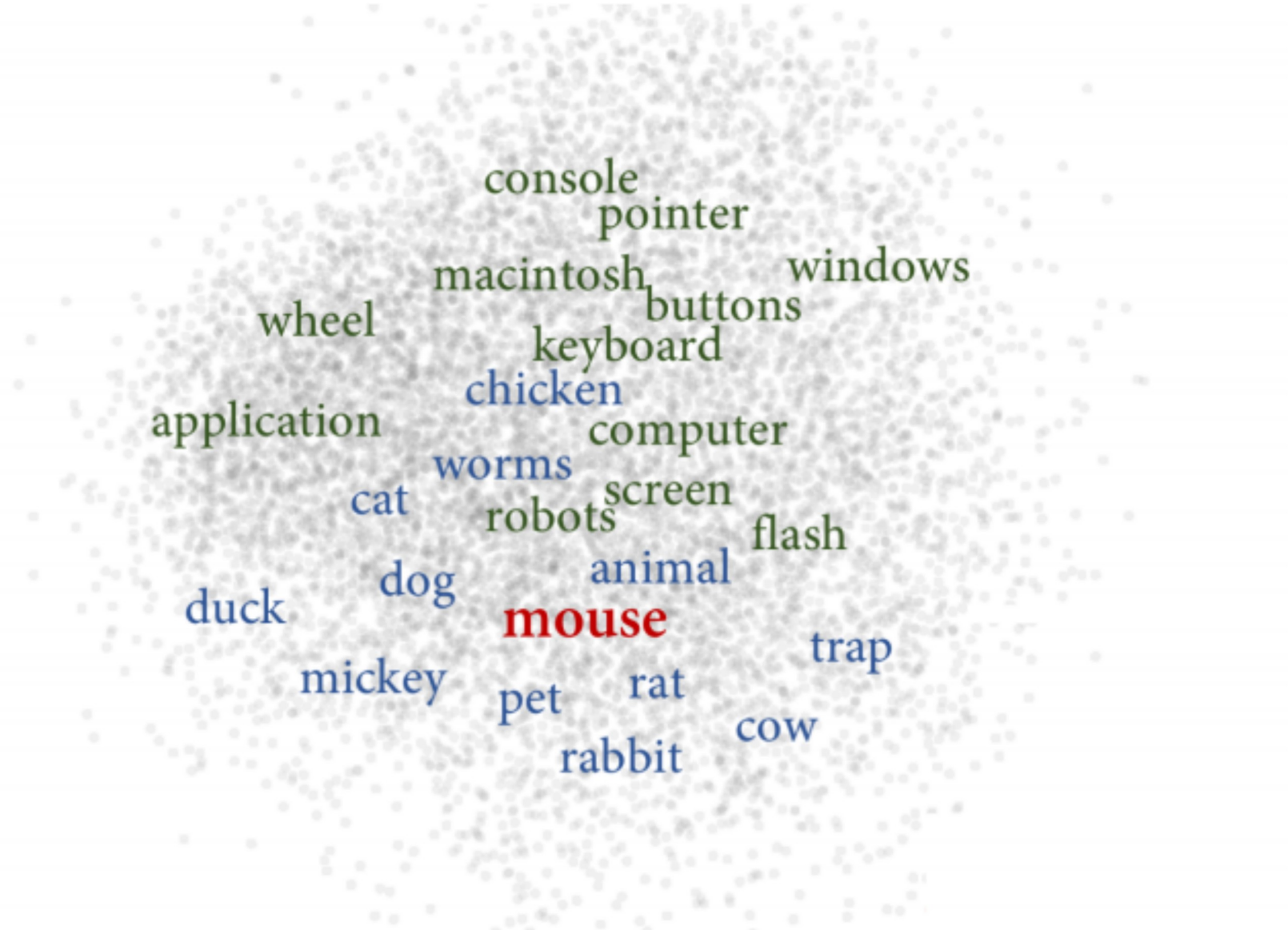
Bayeux

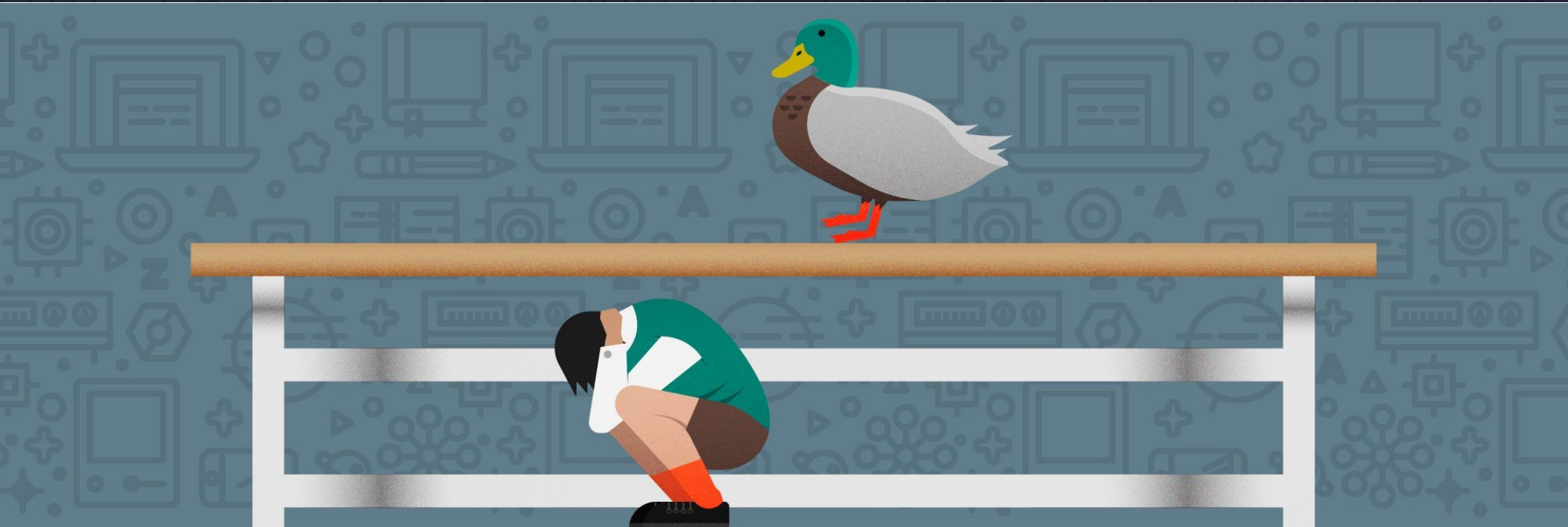
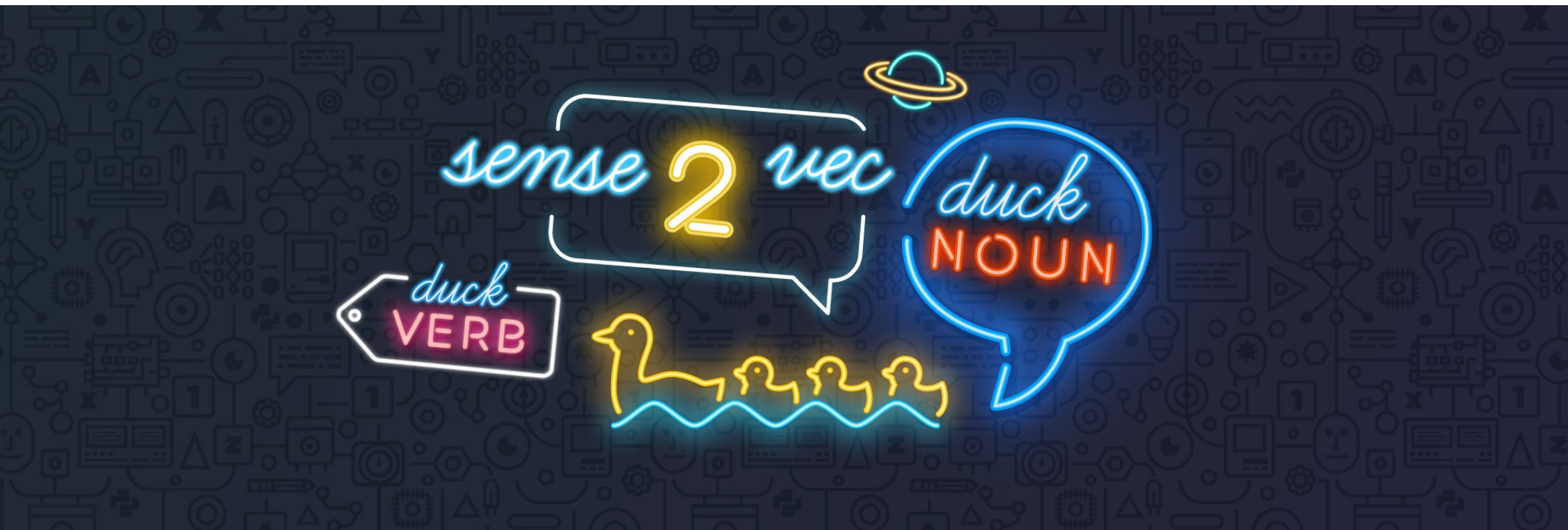
date de début	juin 1944
date de fin	septembre 1944
a pour cause	débarquement de Normandie
motif de fin	libération de Paris
période applicable	gouvernement provisoire de la République française
nature de la déclaration	de facto



- Espresso? But I ordered a cappuccino!
- Don't worry, the cosine distance between them is so small that they are almost the same thing.

Meaning conflation deficiency

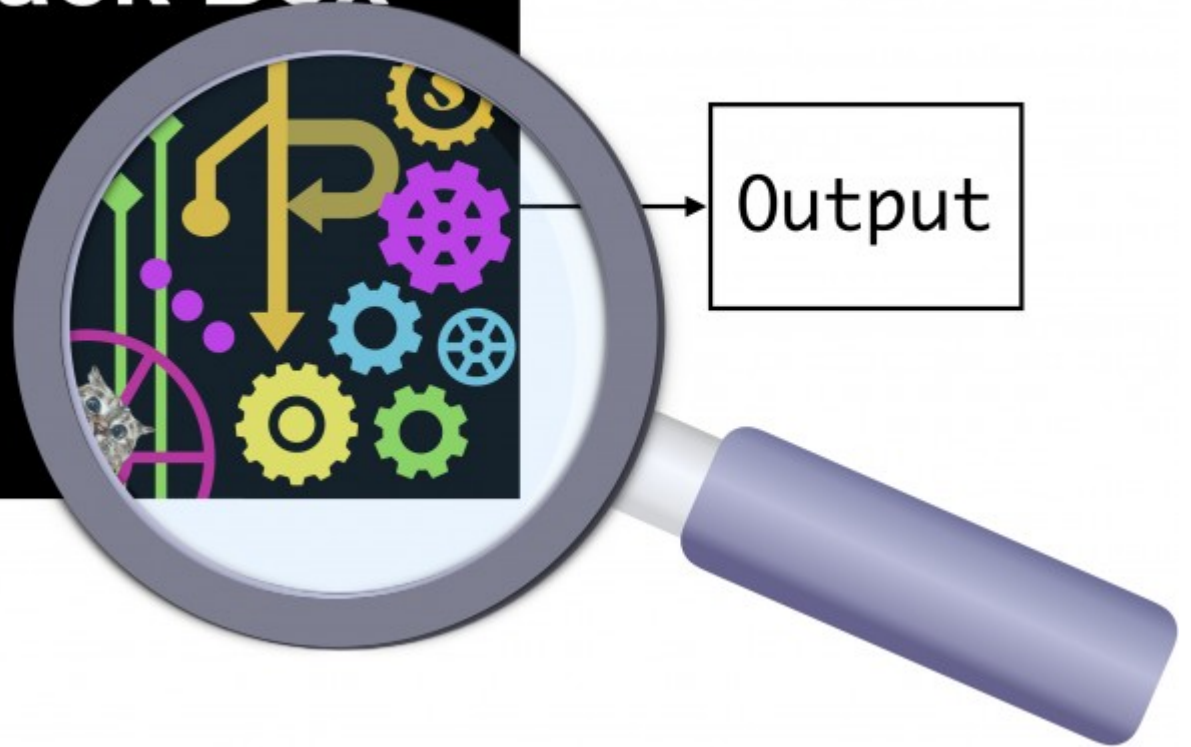




Black Box

Input

Output



Explainability

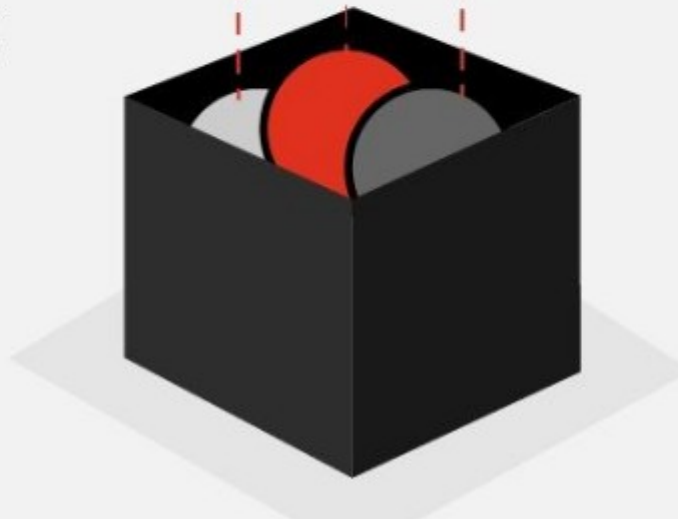
Understanding reasoning
behind each decision

Transparency

Understanding of
AI model decision
making

Provability

Mathematical
certainty behind
decisions



Source: PwC

How important is interpretability for a model in Machine Learning?



Yann LeCun, Director of AI Research at Facebook and Professor at NYU

Considerably less important than most people think.

How important is the interpretability of your taxi driver?



**YOSHUA BENGIO, GEOFFREY HINTON AND
YANN LECUN AWARDED TURING AWARD 2018**

Ethics guidelines for trustworthy AI

On 8 April 2019, the High-Level Expert Group on AI presented Ethics Guidelines for Trustworthy Artificial Intelligence. This followed the publication of the guidelines' first draft in December 2018 on which more than 500 comments were received through an open consultation.

According to the Guidelines, trustworthy AI should be:

- (1) lawful - respecting all applicable laws and regulations
- (2) ethical - respecting ethical principles and values
- (3) robust - both from a technical perspective while taking into account its social environment

About Artificial intelligence

[Blog posts](#)

[News](#)

[Events](#)

[Projects](#)

[Funding](#)

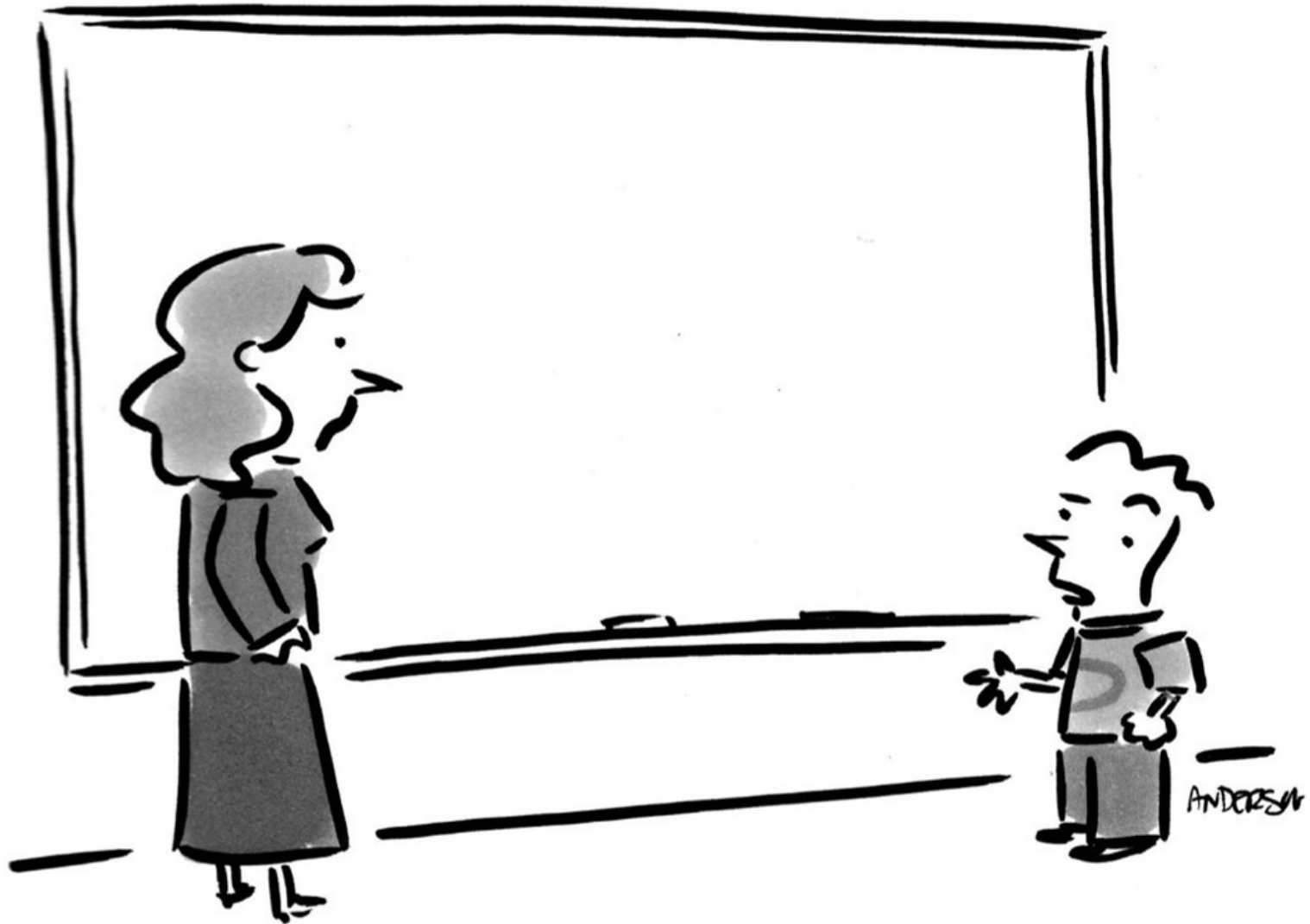


(73) **Qualité et intégrité des données.** La qualité des ensembles de données utilisés est essentielle au bon fonctionnement des systèmes d'IA. La collecte de données peut être entachée de biais d'ordre social, d'imprécisions, de fautes et d'erreurs. Il faut tenir compte de cet élément avant d'utiliser un ensemble de données pour entraîner un système d'IA. Par ailleurs, l'intégrité des données doit être assurée. Alimenter un système d'IA avec des données malveillantes peut modifier son comportement, notamment avec les systèmes d'autoapprentissage. Les processus et ensembles de données utilisés doivent être testés et documentés à chaque étape (planification, entraînement, essais et déploiement). Ce principe devrait s'appliquer également aux systèmes d'IA qui n'ont pas été développés en interne mais qui ont été acquis à l'extérieur.

Data quality and artificial intelligence – mitigating bias and error to protect fundamental rights

FRA Focus

Algorithms used in machine learning systems and artificial intelligence (AI) can only be as good as the data used for their development. High quality data are essential for high quality algorithms. Yet, the call for high quality data in discussions around AI often remains without any further specifications and guidance as to what this actually means. Since there are several sources of error in all data collections, users of AI-related technology need to know where the data come from and the potential shortcomings of the data. AI systems based on incomplete or biased data can lead to inaccurate outcomes that infringe on people's fundamental rights, including discrimination. Being transparent about which data are used in AI systems helps to prevent possible rights violations. This is especially important in times of big data, where the volume of data is sometimes valued over quality.




"Before I write my name on the board, I'll need to know how you're planning to use that data."





ec-doris

 **Repositories** 1

 Packages

 People 8

 Teams

 Projects

 Settings

Type: **All** ▾

Language: **All** ▾

Customize pins

 **New**

EuKnowledgeGraph

This repository contains the Wikibase configuration of the EU Knowledge Graph

● PHP 0 ★ 1 ⓘ 8 🔒 0 Updated 4 days ago

Top languages

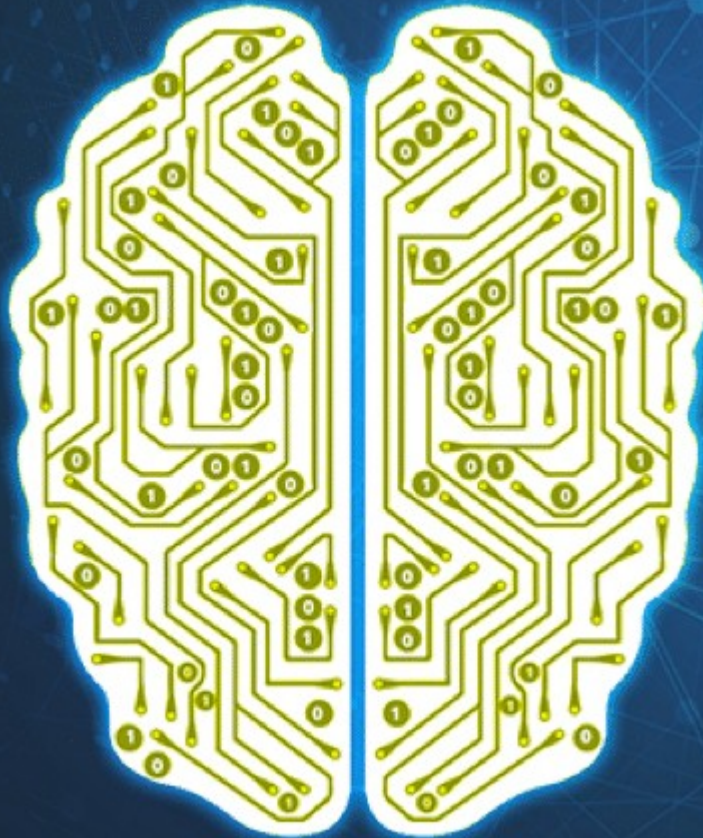
● PHP

People

8 >



Invite someone



**FOR AI TO CHANGE
BUSINESS, IT NEEDS
TO BE FUELED WITH
QUALITY DATA**

I want to talk to a HUMAN!



Impact de la qualité
des bases de connaissances
sur les agents conversationnels

Max De Wilde
maxdewilde.me