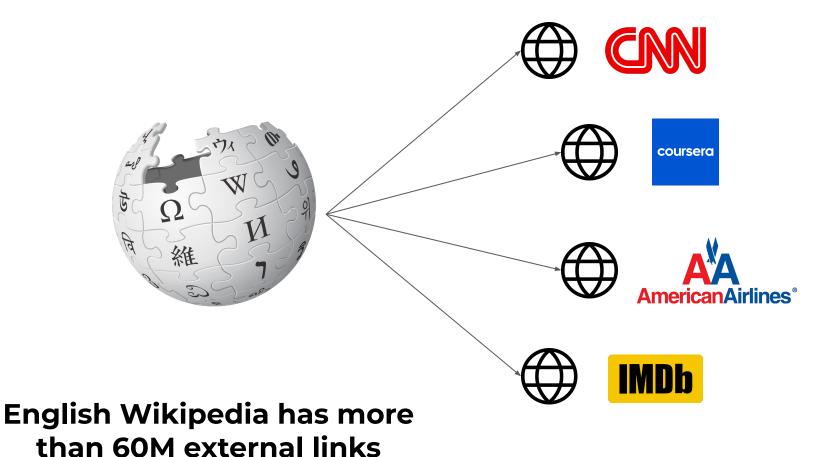
On the Value of Wikipedia as a Gateway to the Web

<u>Tiziano Piccardi</u>, Miriam Redi, Giovanni Colavizza, Robert West









Coursera

From Wikipedia, the free encyclopedia



2.8M links

Coursera, Inc.

Privately held company Type of **business** Type of site Online education Available in Multilingual (40) Headquarters Mountain View, California, U.S. Founder(s) Andrew Ng Daphne Koller Jeff Maggioncalda[1][2][3] Key people (CEO) Industry E-learning ▲ \$140 Million (2018)^[4] Revenue **Employees** 1,792 (June 2020) URL www.coursera.org ☑ • Registration Required 73 million^[5] Users Launched April 2012; 8 years ago **Current status**

Active

24.9M links External links and further reading



- Coursera blog 丞
- The University of Michigan's Contract With Coursera
- "Daphne Koller: What we're learning from online education", TED Talks, June, 2012 &
- "MOOC pedagogy: the challenges of developing for Coursera"
 □



35.3M links

References [edit]

- 1. ^ Das, Sejuti (2020-08-12). "IIT Roorkee Partners With Coursera To Offer AL, ML & Data Science Online Programs" & Analytics India Magazine. Retrieved 2020-08-25.
- 2, A "Sherry Coutu and Coursera step in to upskill UK's digital laggards" @ . Sifted. Retrieved 2020-08-25.
- 3. ^ Geron, Tomio (2020-07-28). "Jobless Workers Fuel Surge in Demand for Startups Offering Retraining" & . Wall Street Journal, ISSN 0099-9660 ₽. Retrieved 2020-08-25.
- 4. ^ Adams, Susan. "Online Education Provider Coursera Is Now Worth More Than \$1 Billion" & Forbes,
- 5. A "About Coursera" Retrieved 7 November 2020.
- 6. ^ de León, Riley. "Coursera files for IPO amid online learning boom" . www.cnbc.com. CNBC. Retrieved 11 March 2021.
- 7. ^ Tamar Lewin (17 July 2012). "Universities Reshaping Education on the Web" & The New York Times. Retrieved 24 March 2017.

Coursera, Inc.

Type of Privately held company business Type of site Online education Available in Multilingual (40) Headquarters Mountain View, California, U.S. Founder(s) Andrew Na Daphne Koller Jeff Maggioncalda^{[1][2][3]} Key people (CEO) Industry E-learning ▲ \$140 Million (2018)^[4] Revenue **Employees** 1,792 (June 2020) URL www.coursera.org 🗗 💣 Registration Required 73 million^[5] Users Launched April 2012; 8 years ago Current status Active

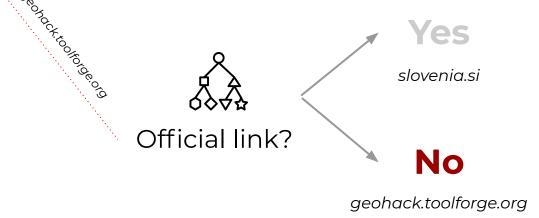
Official links

- In the infobox
- Official website of a company, a person, a party, etc...
- Typically unique for the entity



Random Forest classifier

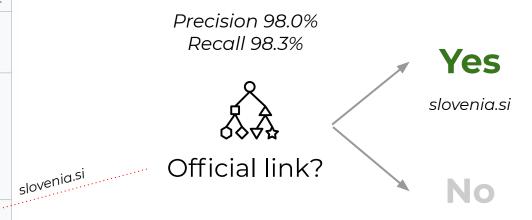
Features based on the <u>label in the infobox</u> and the <u>similarity</u> between the <u>domain name</u> and the article <u>title</u>



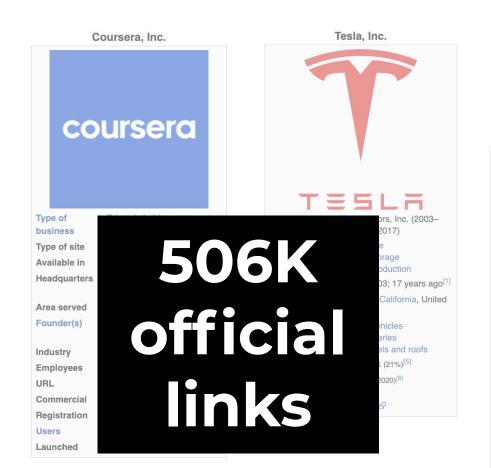


Random Forest classifier

Features based on the <u>label in the infobox</u> and the <u>similarity</u> between the <u>domain name</u> and the article <u>title</u>







École polytechnique fédérale de Lausanne

Swiss Federal Institute of Other name Technology in Lausanne, French: le Poly (colloquially)

Type Public

Established 1853; 168 years ago (École

spéciale de Lausanne)

1969 (Federal status)[1]

1056 MCHF^[2] Budget

President Martin Vetterli

3,971 (2016) [3] Academic staff

Administrative 1,195 (2016) [3] staff

Location Écublens (near Lausanne), Canton of Vaud, Switzerland

46°31′13″N 6°33′56″E

Urban Campus

Colours

Language French, English (only

Masters and upwards)

Swiss red^[4]

Website www.epfl.ch &

What is the role of Wikipedia in driving traffic to these websites?



What is the **level of engagement** with external links?



What are the **patterns of engagement** with official links?



What is the **economic value** of the traffic generated by official links?

Data Collection

- Client-side instrumentation
- 4 weeks (April '19)
- English Wikipedia
- Privacy constraints:
 - All data comes from non logged-in users only.
 - We stored only anonymised summaries.
- 96M events collected
 - O external clicks
 - O hover popups
 - O jump to footnote

43M external clicks



What is the level of engagement with external links?

Click-through rate

number of times the link was clicked

number of times the link was displayed

Click speed

number of seconds from the page-load event to the click (each link described with its median)

Coursera, Inc.

Type of

Privately held company

business

Type of site Online education

Available in Multilingual (40)

Headquarters Mountain View, California,

U.S.

Founder(s) Andrew Ng

Daphne Koller

Jeff Maggioncalda[1][2][3] Key people

(CEO)

Industry E-learning

▲ \$140 Million (2018)^[4] Revenue

Employees 1,792 (June 2020)

URL www.coursera.org ₺

Registration Required 73 million^[5] Users

Launched April 2012; 8 years ago

Current status Active

0.90%

18.6s

External links and further reading

- Coursera blog ☑
- The University of Michigan's Contract With Coursera ☑
- "Daphne Koller: What we're learning from online education", TED Talks, June, 2012 ☑

0.14%

35.4s

References [edit]

- 1. ^ Das, Sejuti (2020-08-12). "IIT Roorkee Partners With Coursera To Offer AL, ML & Data Science Online Programs" 당. Analytics India Magazine. Retrieved 2020-08-25.
- 2. A "Sherry Coutu and Coursera step in to upskill UK's digital laggards" . Sifted. Retrieved 2020-08-25.
- 3. A Geron, Tomio (2020-07-28), "Jobless Workers Fuel Surge in Demand for Startups Offering Retraining" & Wall Street Journal. ISSN 0099-9660 ₽. Retrieved 2020-08-25.

0.03%

51.8s

Coursera, Inc.

Type of Privately held company business Type of site Online education Available in Multilingual (40) Headquarters Mountain View, California, U.S. Founder(s) Andrew Ng Daphne Koller Jeff Maggioncalda^{[1][2][3]} Key people (CEO) Industry E-learning ▲ \$140 Million (2018)^[4] Revenue **Employees** 1,792 (June 2020) URL www.coursera.org Registration Required Users 73 million^[5] April 2012; 8 years ago Launched Current status Active

9.8M clicks

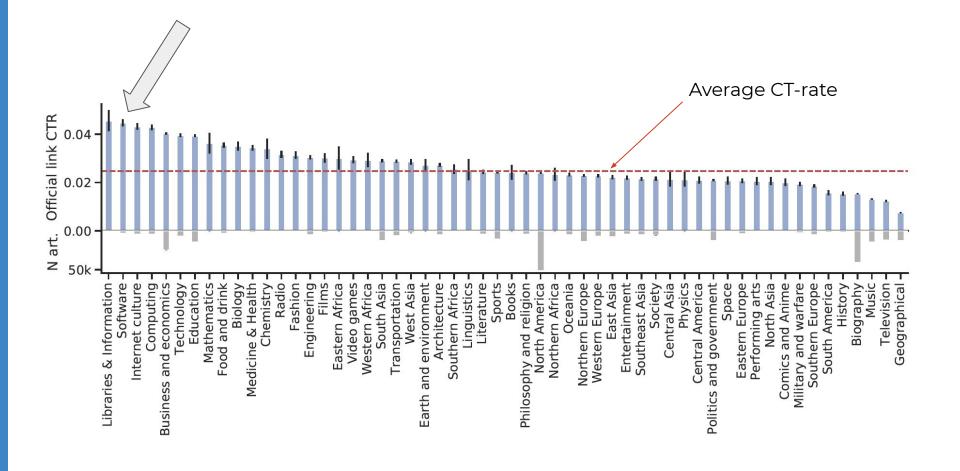
Official links CT Rate



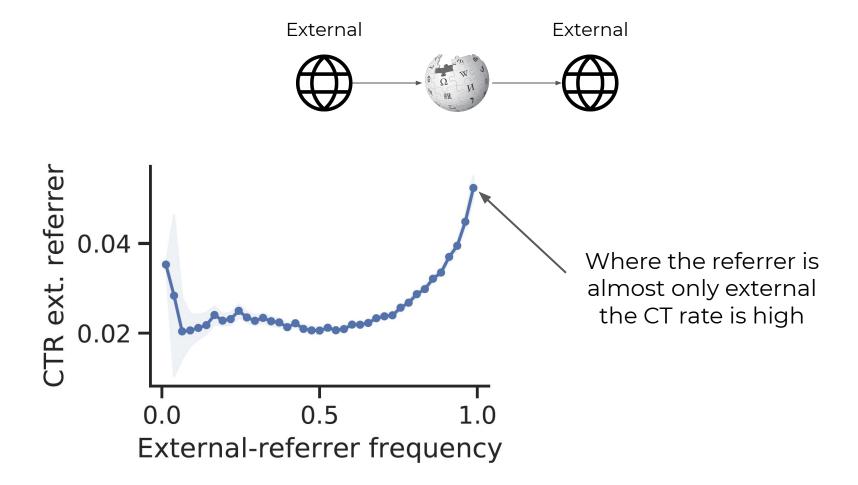
or 1 in 40



What are the patterns of engagement with official links?



Some pages act as stepping stone to the actual destination Earth and environment Linguistics Literature Sports Books Northern Europe Western Europe Performing arts Comics and Anime Military and warfare Southern Europe Food and drink Architecture Southern Africa Philosophy and religion North America Northern Africa Oceania East Asia Entertainment Southeast Asia Central America and government Space Eastern Europe North Asia South America Music Television Geographical Biology Society Central Asia History Biography Mathematics Educatio Libraries & Informatio rechnolog Business and economi Internet cultu Computi Medicine &

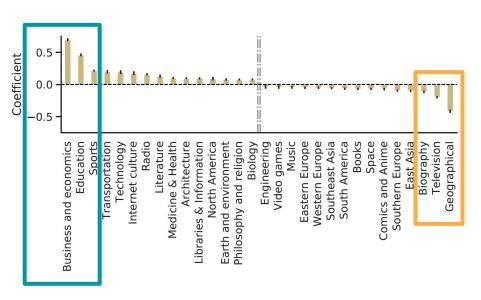


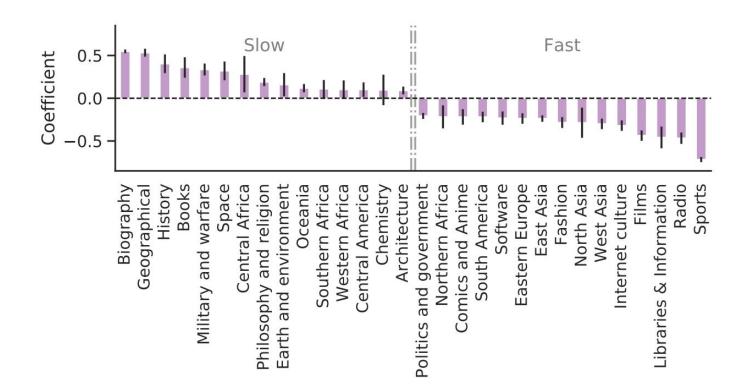
Matched dataset

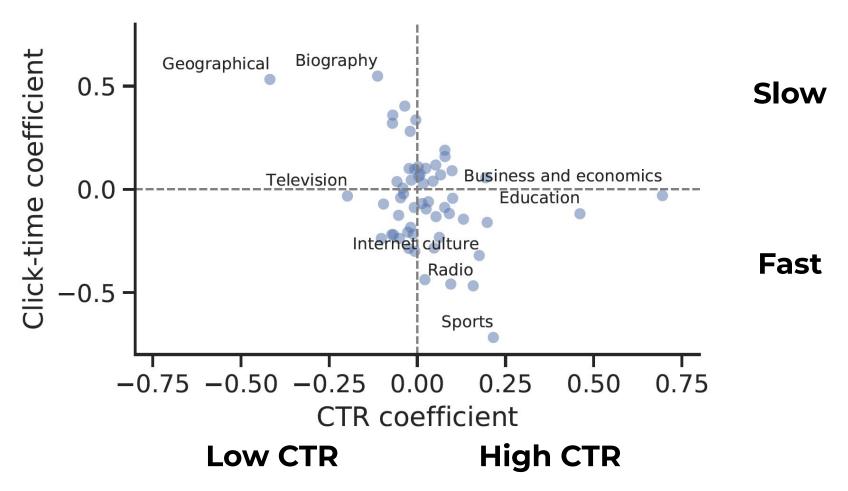
Length and popularity

Balanced on: High or low CT Rate - threshold on median

Topics



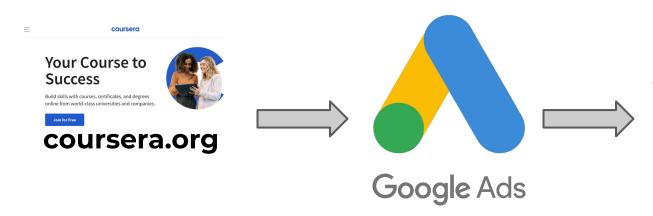






What is the
economic value
of the traffic generated by
official links?

Keyword Planner



online courses
online colleges
online classes
mooc online
learning free
online courses
online degrees
open university courses
online education
online universities

. . .

Forecasting tool

Top 10 + article title

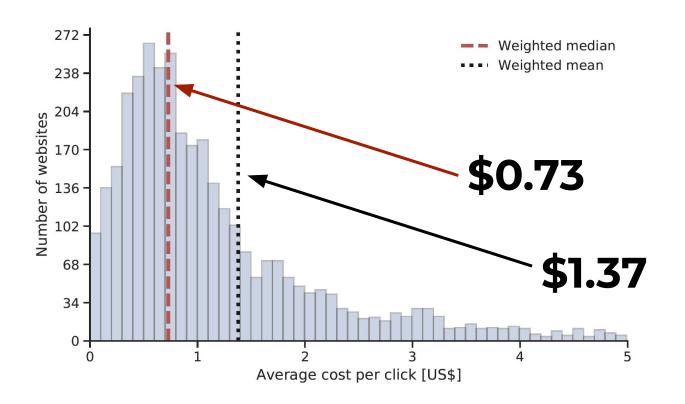
online courses
online colleges
online classes
mooc online
learning free
online courses
online degrees
open university courses
online education
online universities
coursera





\$0.79

3600 websites



\$7M-\$13M month

Only on English Wikipedia

What we learned

- RQ1: When the official link is present, 1 in 40 page-views has clicks on it.
- RQ2: The official links associated with Business, Education and Sport have the highest CT rate. Some articles acts as <u>stepping stone</u> to the actual destination.
- RQ3: The website owners would need to pay a total between <u>\$7 and 13 million</u> per month to obtain the same volume of traffic via sponsored search.

Thank You

From Wikipedia, the free encyclopedia

"Thank you" is a common expression of gratitude.

@tizianopiccardi