

Analyse von „Wiki-Daten“: Wikipedia, DBpedia und Wikidata 1

OSD 1

Bettina Berendt

12.1.2024

Wo sind wir, und wo wollen wir hin?

- ✓ Viele Online Social Data haben Graph-Struktur.
- ✓ Diese können wir mit Tools wie Gephi oder NetworkX analysieren.
- ✓ Häufig sind die Daten selbst dann relativ einfach (Knoten und Kanten mit Labels).
- Woher bekommen wir reichhaltigere Informationen?
- Aus online und sozial erstellten Daten?
- Schauen wir uns Wikipedia an.
- Wofür?
 1. Ein Anwendungsbeispiel: Diversität in den Medien
 2. Mehr Details und (wenn Zeit) praktische Übungen.

Kevin Bacon

oracleofbacon.org/movielinks.php

The Oracle of Bacon website interface. At the top, there's a navigation bar with icons for Google, refresh, star, message, puzzle, square, user, and more. Below the header, the title "THE ORACLE OF BACON" is displayed in large, serif capital letters. To the right of the title is a portrait of Kevin Bacon. On the left, there's a small image of a person in a green shirt. A sidebar on the left contains the text "Data from Wikipedia, used under CC BY-SA 3.0." The main content area shows a search result for a connection between Kevin Bacon and Angelina Jolie. It displays a path of movies: "Angelina Jolie" (green box) was in "Kung Fu Panda 3" (purple box) with "Dustin Hoffman" (green box), who was in "Sleepers" (purple box) with "Kevin Bacon" (green box). Below this diagram, there are input fields for "Kevin Bacon" and "Angelina Jolie", a "Find link" button, and a "More options >>" button.

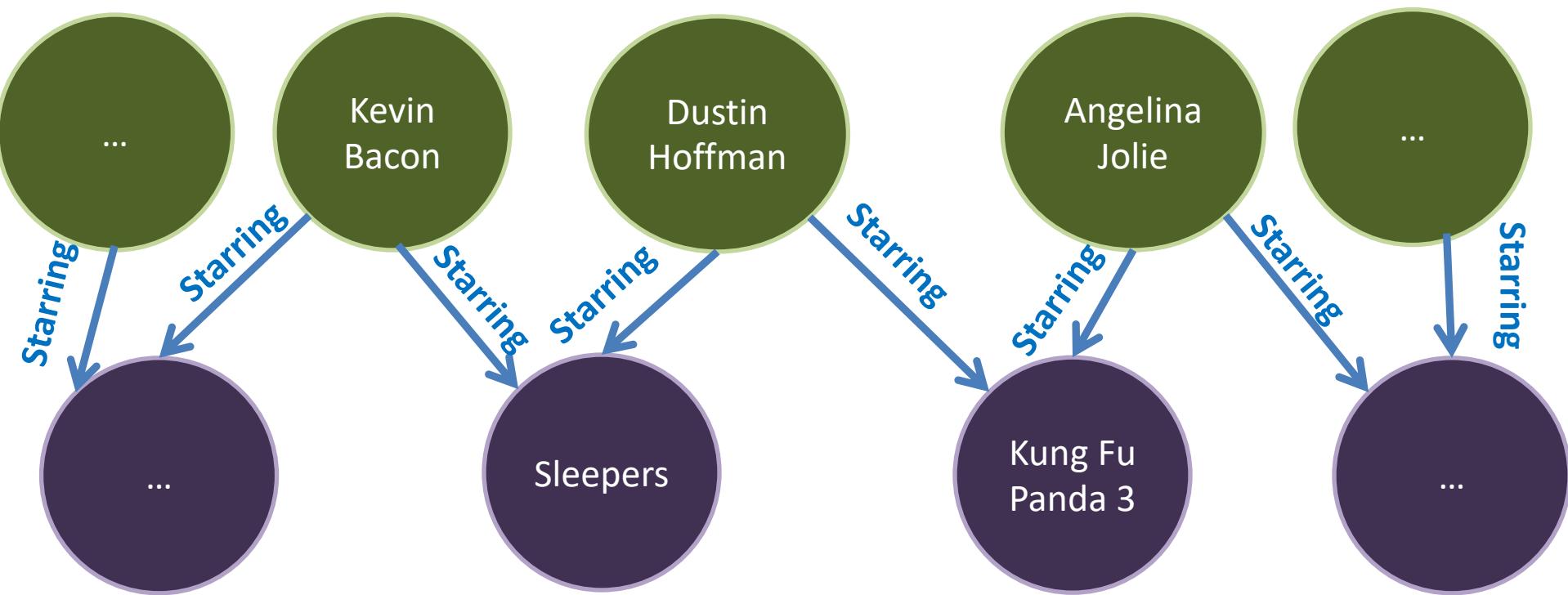
THE ORACLE
OF BACON

Angelina Jolie has a Bacon number of 2. [Find a different link](#)

Angelina Jolie
was in
Kung Fu Panda 3
with
Dustin Hoffman
was in
Sleepers
with
Kevin Bacon

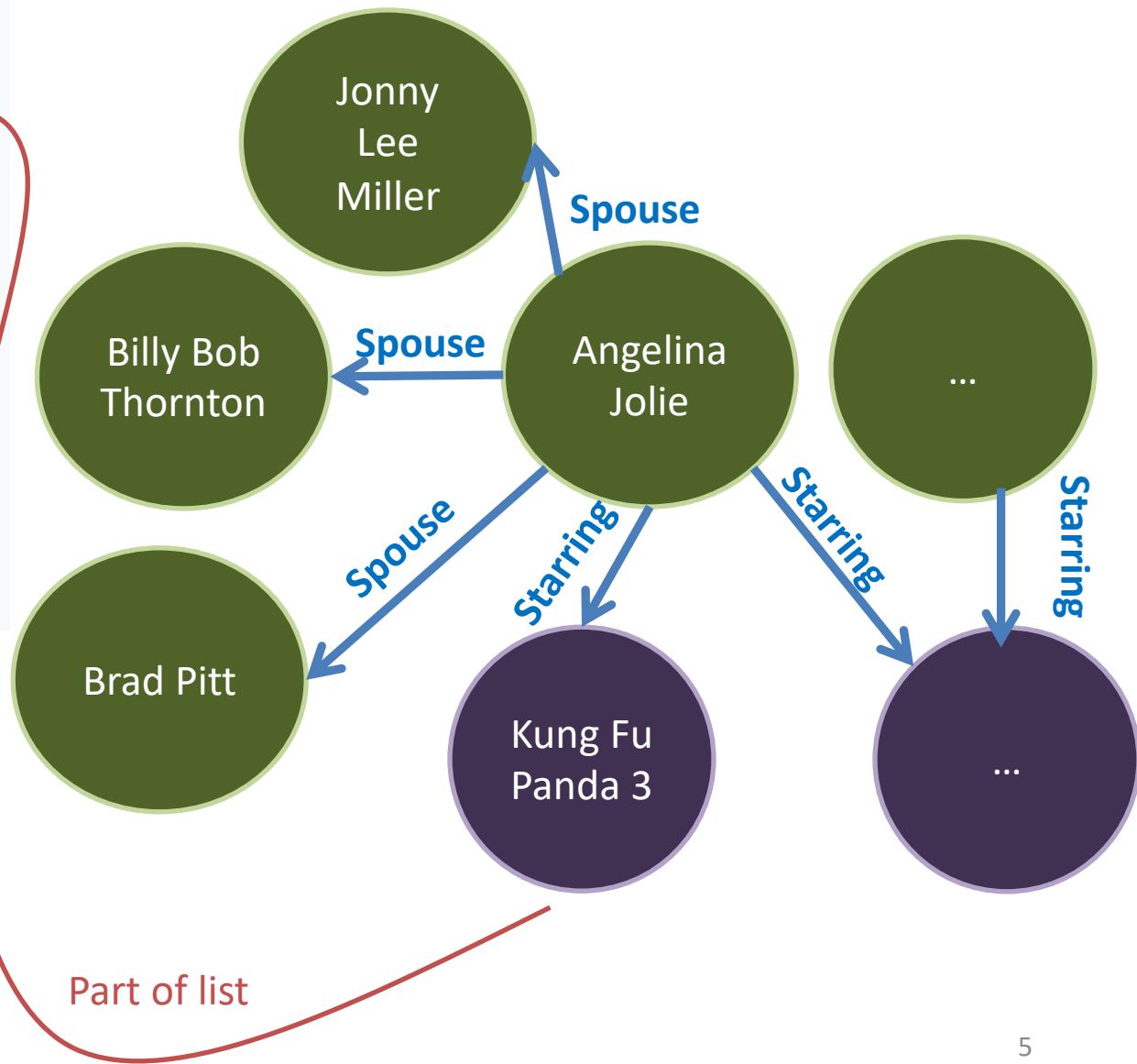
Kevin Bacon to Angelina Jolie [Find link](#) [More options >>](#)

Offensichtlich Teil eines Graphen



... der noch mehr enthält

Other names	Angelina Jolie Pitt ^[1]
Citizenship	United States · Cambodia ^[a]
Occupation	Actress · filmmaker · humanitarian
Years active	1982–present
Works	Full list
Spouses	Jonny Lee Miller (m. 1996; div. 2000) Billy Bob Thornton (m. 2000; div. 2003) Brad Pitt (m. 2014; div. 2019)
Children	6
Parents	Jon Voight (father) Marcheline Bertrand (mother)



Woher kam diese Info?



en.wikipedia.org/wiki/Angelina_Jolie

Do you want to support Wikipedia later? [Yes](#)

Tools	her performance in the 1999 drama <i>Girl, Interrupted</i> . Her starring role as the titular video game heroine in <i>Lara Croft: Tomb Raider</i> (2001) established her as a leading Hollywood actress. She continued her action-star career with <i>Mr. & Mrs. Smith</i> (2005), <i>Wanted</i> (2008), <i>Salt</i> (2010), and <i>The Tourist</i> (2010), and received critical acclaim for her performances in the dramas <i>A Mighty Heart</i> (2007) and <i>Changeling</i> (2008); the latter earned her a nomination for an Academy Award for Best Actress. Her biggest commercial success came with the fantasy picture <i>Maleficent</i> (2014). Her voice roles include in the animation film series <i>Kung Fu Panda</i> since 2008. Jolie has also directed and written several war dramas, namely <i>In the Land of Blood and Honey</i> (2011), <i>Unbroken</i> (2014), and <i>First They Killed My Father</i> (2017). In 2021, Jolie portrayed Thena in the Marvel Cinematic Universe superhero film <i>Eternals</i> . Jolie is known for her humanitarian efforts, for which she has received a Jean Hersholt Humanitarian Award and made an honorary Dame Commander of the Order of St Michael and St George, among other honors. She promotes various causes, including conservation, education, and women's rights, and is most noted for her advocacy on behalf of refugees as a Special Envoy for the United Nations High Commissioner for Refugees. Jolie has undertaken over a dozen field missions globally to refugee camps and war zones; her visited countries include Cambodia, Sierra Leone, Tanzania, Pakistan, Afghanistan, Syria, Sudan, Yemen, and	<p>Born Angelina Jolie Voight June 4, 1975 (age 47) Los Angeles, California, U.S.</p> <p>Other names Angelina Jolie Pitt^[1]</p> <p>Citizenship United States · Cambodia^[a]</p> <p>Occupation Actress · filmmaker · humanitarian</p> <p>Years active 1982–present</p> <p>Works Full list</p> <p>Spouses Jonny Lee Miller (m. 1996; div. 2000) Billy Bob Thornton (m. 2000; div. 2003) Brad Pitt (m. 2014; div. 2019)</p> <p>Children 6</p>
-------	---	---

Woher kam diese Info?

en.wikipedia.org/wiki/Angelina_Jolie

Do you want to support Wikipedia later? **Yes**

Tools

- What links here
- Related changes
- Special pages
- Permanent link
- Page information
- Cite this page
- Wikidata item

Print/export

Download as PDF

Printable version

In other projects

Wikimedia Commons

Wikiquote

Languages

- Alemannisch
- Dansk
- Deutsch
- Español
- Français
- Italiano
- Nederlands

her performance in the 1999 drama *Girl, Interrupted*. Her starring role as the titular video game heroine in *Lara Croft: Tomb Raider* (2001) established her as a leading Hollywood actress. She continued her action-star career with *Mr. & Mrs. Smith* (2005), *Wanted* (2008), *Salt* (2010), and *The Tourist* (2010), and received critical acclaim for her performances in the dramas *A Mighty Heart* (2007) and *Changeling* (2008); the latter earned her a nomination for an Academy Award for Best Actress. Her biggest commercial success came with the fantasy picture *Maleficent* (2014). Her voice roles include in the animation film series *Kung Fu Panda* since 2008. Jolie has also directed and written several war dramas, namely *In the Land of Blood and Honey* (2011), *Unbroken* (2014), and *First They Killed My Father* (2017). In 2021, Jolie portrayed Thena in the Marvel Cinematic Universe superhero film *Eternals*. Jolie is known for her humanitarian efforts, for which she has received a Jean Hersholt Humanitarian Award and made an honorary Dame Commander of the Order of St Michael and St George, among other honors. She promotes various causes, including conservation, education, and women's rights, and is most noted for her advocacy on behalf of refugees as a Special Envoy for the United Nations High Commissioner for Refugees. Jolie has undertaken over a dozen field missions globally to refugee camps and war zones; her visited countries include Cambodia, Sierra Leone, Tanzania, Pakistan, Afghanistan, Syria, Sudan, Yemen, and



Jolie in 2014

Born	Angelina Jolie Voight June 4, 1975 (age 47) Los Angeles, California, U.S.
Other names	Angelina Jolie Pitt ^[1]
Citizenship	United States · Cambodia ^[a]
Occupation	Actress · filmmaker · humanitarian
Years active	1982–present
Works	Full list
Spouses	Jonny Lee Miller (m. 1996; div. 2000) Billy Bob Thornton (m. 2000; div. 2003) Brad Pitt (m. 2014; div. 2019)
Children	6

Wikipedia, Infoboxen, DBpedia

About: [Angelina Jolie](#)

An Entity of Type: [species](#), from Named Graph: <http://dbpedia.org>, within Data Space: dbpedia.org

Angelina Jolie DCMG (/dʒoʊ'lɪ/; born Angelina Jolie Voight; June 4, 1975) is an American actress, filmmaker, and humanitarian. The recipient of numerous accolades, including an Academy Award and three Golden Globe Awards, she has been named Hollywood's highest-paid actress multiple times.



Property	Value
dbo:abstract	<ul style="list-style-type: none">Angelina Jolie DCMG (/dʒoʊlɪ:/; born Angelina Jolie Voight; June 4, 1975) is an American actress, filmmaker, and humanitarian. The recipient of numerous accolades, including an Academy Award and three Golden Globe Awards, she has been named Hollywood's highest-paid actress multiple times. Jolie made her screen debut as a child alongside her father, Jon Voight, in <i>Lookin' to Get Out</i> (1982), and her film career began in earnest a decade later with the low-budget production <i>Cyborg 2</i> (1993), followed by her first leading role in a major film, <i>Hackers</i> (1995). She starred in the critically acclaimed biographical cable films <i>George Wallace</i> (1997) and <i>Gia</i> (1998), and won an Academy Award for Best Supporting Actress for her performance in the 1999 drama <i>Girl, Interrupted</i>. Her starring role as the video game heroine Lara Croft in <i>Lara Croft: Tomb Raider</i> (2001) established her as a leading Hollywood actress. She continued her action-star career with <i>Mr. & Mrs. Smith</i> (2005), <i>Wanted</i> (2008), <i>Salt</i> (2010), and <i>The Tourist</i> (2010), and received critical acclaim for her performances in the dramas <i>A Mighty Heart</i> (2007) and <i>Changeling</i> (2008), the latter of which earned her a nomination for an Academy Award for Best Actress. Her biggest commercial success came with the fantasy picture <i>Maleficent</i> (2014). She is also known for her voice role in the animation film series <i>Kung Fu Panda</i> (2008–present). Jolie has also directed and written several war dramas, namely <i>In the Land of Blood and Honey</i> (2011), <i>Unbroken</i> (2014), and <i>First They Killed My Father</i> (2017). In 2021, Jolie portrayed Thena in the Marvel Cinematic Universe superhero film <i>Eternals</i>. In addition to her film career, Jolie is known for her humanitarian efforts, for which she has received a Jean Hersholt Humanitarian Award and made an honorary Dame Commander of the Order of St Michael and St George (DCMG), among other honors. She promotes various causes, including conservation, education, and women's rights, and is most noted for her advocacy on behalf of refugees, particularly through her work with the United Nations High Commissioner for Refugees (UNHCR). Jolie has

The DBpedia logo consists of a stylized yellow flower icon followed by the word "DBpedia" in a blue serif font.

Browse using ▾ Formats ▾

 Faceted Browser  Sparql Endpoint

 Faceted Browser Sparql Endpoint

 Faceted Browser  Sparql Endpoint

Pitt. She has six children with Pitt, three of whom were adopted internationally. (er)

dbo:activeYearsStartYear	• 1982-01-01 (xsd:gYear)
dbo:alias	• Angelina Jolie Pitt (en)
dbo:award	• dbr>List_of_awards_and_nominations_received_by_Angelina_Jolie
dbo:birthDate	• 1975-06-04 (xsd:date)
dbo:birthName	• Angelina Jolie Voight (en)
dbo:birthPlace	• dbr:California • dbr:Los_Angeles
dbo:birthYear	• 1975-01-01 (xsd:gYear)
dbo:citizenship	• dbr:Cambodia
dbo:occupation	• dbr:Angelina_Jolie_PersonFunction_1
dbo:parent	• dbr:Marcheline_Bertrand • dbr:Jon_Voight
dbo:relative	• dbr:James_Haven • dbr:Barry_Voight • dbr:Chip_Taylor
dbo:spouse	• dbr:Brad_Pitt • dbr:Jonny_Lee_Miller • dbr:Billy_Bob_Thornton

Diese Daten bieten enorme Flexibilität (1)

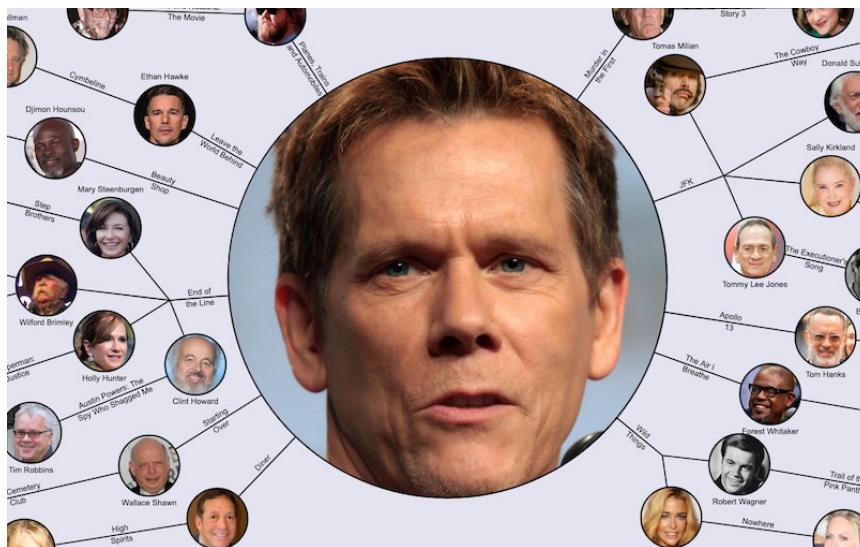
- Dbpedia ist ein riesiger Graph
 - Analysiert werden i.d.R. von ihm induzierte Subgraphen.
 - z.T. auch weiter vereinfacht (z.B. $actor1 \rightarrow film1 \leftarrow actor2$ vereinfacht zu $actor1 - actor2$)

Diese Daten bieten enorme Flexibilität (2)

A. Man kann soziale Graphen (in Form von Knoten- und Kantenlisten) extrahieren

- z.B. Kevin Bacon
- z.B. Figuren in Game of Thrones (mehr dazu am 4.1.)

& dann so analysieren, wie wir das in den vergangenen Stunden gemacht haben.



Diese Daten bieten enorme Flexibilität (3)

- B. Man kann aber auch komplexere Tabellen (mit mehr oder weniger relationalem Inhalt) extrahieren
 - z.B. "alle Schauspieler:innen, die zwischen 2010-2020 insgesamt über 20 Filme gemacht haben, sortiert nach dem Jahr ihres ersten Films und dann nach dem Vornamen der Mutter"
 - Klingt das nach SQL? In der Tat ist die verwendete Query-Sprache ähnlich – mehr am 4.1.
- Im Rest dieser Sitzung: Beispiele dieser Analyseformen.

Zum Weiterlesen z.B.: Wikiworkshop (jährlich seit 2015)

The screenshot shows a web browser window with the URL wikiworkshop.org/2022/. The page title is "Wiki Workshop 2022". On the left, there is a sidebar menu with the following items:

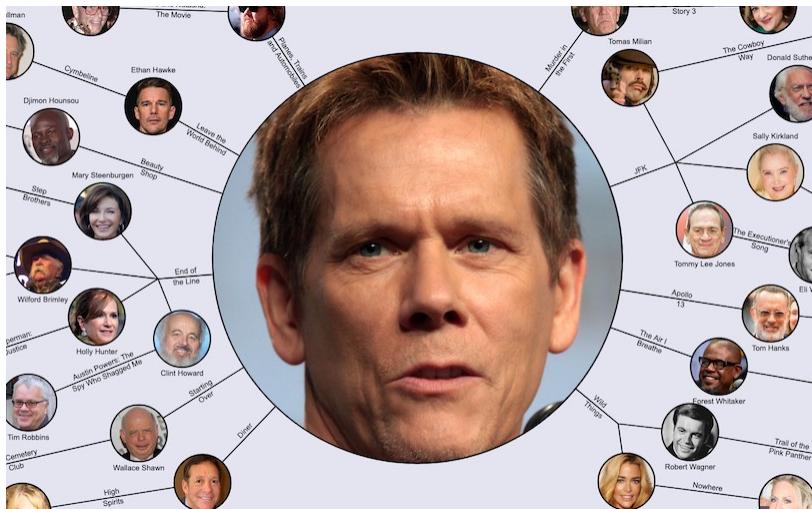
- News
- Schedule
- Invited speakers
- Accepted papers
- Key dates
- Call for contributions
- Submission instructions
- Program committee
- Previous editions
- Organization
- Contact

The "Accepted papers" item is highlighted with an orange background. The main content area is titled "Accepted papers". It lists several accepted papers with their authors and abstracts:

- Bart Magnus**
Public Domain Tool: automating the calculation of works in the public domain while contributing to and using Wikidata [PDF]
- Carina Negreanu, Alperen Karaoglu, Jack Williams, Shuang Chen, Daniel Fabian, Andrew Gordon and Chin-Yew Lin**
Rows from Many Sources: How to enrich row completions from Wikidata with a pre-trained Language Model [PDF]
- Anass Sedrati and Reda Benkhadra**
Are Democratic User Groups More Inclusive? [PDF]
- Puyu Yang and Giovanni Colavizza**
A Map of Science in Wikipedia [PDF]
- Karthic Madanagopal and James Caverlee**
Improving Linguistic Bias Detection in Wikipedia using Cross-Domain Adaptive Pre-Training [PDF]
- Jean Dupuy, Adrien Guille and Julien Jacques**
Anchor Prediction: A Topic Modeling Approach [PDF]
- Núria Ferran-Ferrer, Marc Miquel-Ribé, Julio Meneses and Julià Minguillón**
The gender perspective in Wikipedia: A content and participation challenge [PDF]
- Hiba Arnaout, Trung-Kien Tran, Daria Stepanova, Mohamed H. Gad-Elrab, Simon Razniewski and Gerhard**
...

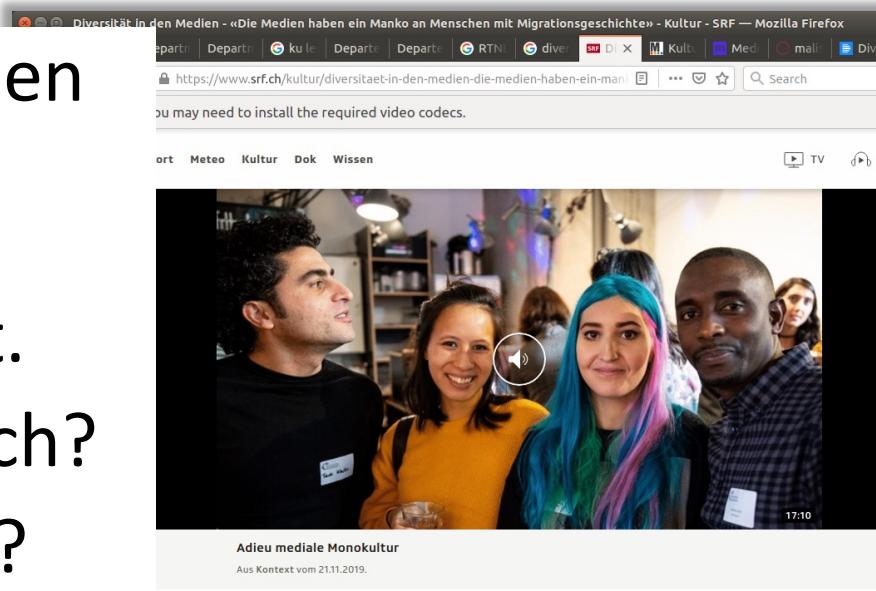
Problem ... und Aufgabe (Teil 1)

- Sie sind Filmjournalist:in.
- Sie wollen einen Presse-Artikel über 100 Schauspieler:innen schreiben.
- Sie erhalten eine Graph-Repräsentation von Wikipedia/Dbpedia, von oracleofbacon.org
- Wie gehen Sie vor? (*high-level Antworten bitte ☺*)



Problem ... und Aufgabe (Teil 2)

- Ihr:e Chef:in sagt: Wir wollen divers sein. Z.B. was die Nationalität der Schauspieler:innen betrifft.
- Welches Problem ergibt sich?
- Wie könnten Sie das lösen?
 - Sie haben Google und Wikipedia zur Verfügung.
- 15 Minuten Breakout-Gruppe, kurzer Bericht im Plenum



Kultur > Gesellschaft & Religion >

Diversität in den Medien

«Die Medien haben ein Manko an Menschen mit Migrationsgeschichte»

Sonntag, 19.12.2021, 08:59 Uhr

<https://www.srf.ch/kultur/diversitaet-in-den-medien-die-medien-haben-ein-manko-an-menschen-mit-migrationsgeschichte>

Teil 3: Jetzt ohne Google. Und ohne die Wikipedia-Suchbox.

- 2 Beispiele als Tipp (größer auf den nächsten Folien). 10 Minuten Breakout.

The image shows two side-by-side Mozilla Firefox browser windows. Both windows display the DBpedia page for a famous person, with a large portrait photo on the right and a list of properties and their values on the left.

Left Window (Angelina Jolie):

- Pitt.** She has six children with Pitt, three of whom were adopted internationally. (en)
- dbo:activeYearsStartYear** • 1982-01-01 (xsd:gYear)
- dbo:alias** • Angelina Jolie Pitt (en)
- dbo:award** • [dbr>List_of_awards_and_nominations_received_by_Angelina_Jolie](#)
- dbo:birthDate** • 1975-06-04 (xsd:date)
- dbo:birthName** • Angelina Jolie Voight (en)
- dbo:birthPlace** • [dbr:California](#)
• [dbr:Los_Angeles](#)
- dbo:birthYear** • 1975-01-01 (xsd:gYear)
- dbo:citizenship** • [dbr:Cambodia](#)
- dbo:occupation** • [dbr:Angelina_Jolie_Person](#)
- dbo:parent** • [dbr:Marcheline_Bertrand](#)
• [dbr:Jon_Voight](#)
- dbo:relative** • [dbr:James_Haven](#)
• [dbr:Barry_Voight](#)
• [dbr:Chip_Taylor](#)
- dbo:spouse** • [dbr:Brad_Pitt](#)
• [dbr:Jonny_Lea_Miller](#)
• [dbr:Billy_Bob_Thornton](#)

Right Window (Shah Rukh Khan):

- UNESCO's Pyramide con Marni award in 2011 for his support of children's education and the World Economic Forum's Crystal Award in 2018 for his leadership in championing women's and children's rights in [India](#). He regularly features in listings of the most influential people in [India](#) culture, and in 2008, Newsweek named him one of their fifty most powerful people in the world. (en)
- dbo:activeYearsStartYear** • 1988-01-01 (xsd:gYear)
- dbo:almaMater** • [dbr:Hansraj_College](#)
• [dbr:Jamia_Millia_Islamia](#)
- dbo:award** • [dbr>List_of_awards_and_nominations_received_by_Shah_Rukh_Khan](#)
- dbo:birthDate** • 1965-11-02 (xsd:date)
- dbo:birthName** • Shahrukh Khan (en)
- dbo:birthPlace** • [dbr>New_Delhi](#)
- dbo:spouse** • [dbr:Gauri_Khan](#)
- dbo:thumbnail** • [wiki-commons:Special:FilePath/Shah_Rukh_Khan_graces...aunch_of_the_new](#)
- dbo:wikiPageExternalLink** • <https://books.google.com/books%3Fid=2wo9BAAQBAJ&pg=PT143%7Cdate=20161230075920>
• <https://web.archive.org/web/20161230074030/https://books.google.com/books%3Fid=RQL4dkVAnPIC&pg=PA253%7Curl-status=live>
• <https://web.archive.org/web/20161230075920/https://books.google.com/books%3Fid=2wo9BAAQBAJ&pg=PT143%7Cdate=20161230075920>
• <https://web.archive.org/web/20161230074030/https://books.google.com/books%3Fid=1H9mdj4mViAC&pg=PA125%7Cdate=20161230074030>
• <https://web.archive.org/web/20161230075920/https://books.google.com/books%3Fid=1hyIWle4T0YC&pg=PA180%7Cdate=20161230075920>
• <https://web.archive.org/web/20161230074030/https://books.google.com/books%3Fid=3zE6ndYKml0C&pg=PA43%7Cdate=20161230074030>
• https://web.archive.org/web/20161230075920/https://books.google.com/books%3Fid=9_PrmyZl1c&pg=PA142%7Cyear=2006%7Cpublisher=20161230075920
• https://web.archive.org/web/20161230074030/https://books.google.com/books%3Fid=A3VvKZul_0UC&pg=PA110%7Cdate=20161230074030

A search bar at the bottom of the right window shows the word "india".

About: Angelina Jolie — Mozilla Firefox

Review New Gehring Gehring Departn Departn kule Departe Departe RTNE what D Alx Bettina karaden > +

https://dbpedia.org/page/Angelina_Jolie

... Search

DBpedia Browse using Formats Faceted Browser Sparql Endpoint

Pitt. She has six children with Pitt, three of whom were adopted internationally. (en)

dbo:activeYearsStartYear • 1982-01-01 (xsd:gYear)

dbo:alias • Angelina Jolie Pitt (en)

dbo:award • [dbr>List_of_awards_and_nominations_received_by_Angelina_Jolie](#)

dbo:birthDate • 1975-06-04 (xsd:date)

dbo:birthName • Angelina Jolie Voight (en)

dbo:birthPlace • [dbr:California](#)
• [dbr:Los_Angeles](#)

dbo:birthYear • 1975-01-01 (xsd:gYear)

dbo:citizenship • [dbr:Cambodia](#)

dbo:occupation • [dbr:Angelina_Jolie_PersonFunction_1](#)

dbo:parent • [dbr:Marcheline_Bertrand](#)
• [dbr:Jon_Voight](#)

dbo:relative • [dbr:James_Haven](#)
• [dbr:Barry_Voight](#)
• [dbr:Chip_Taylor](#)

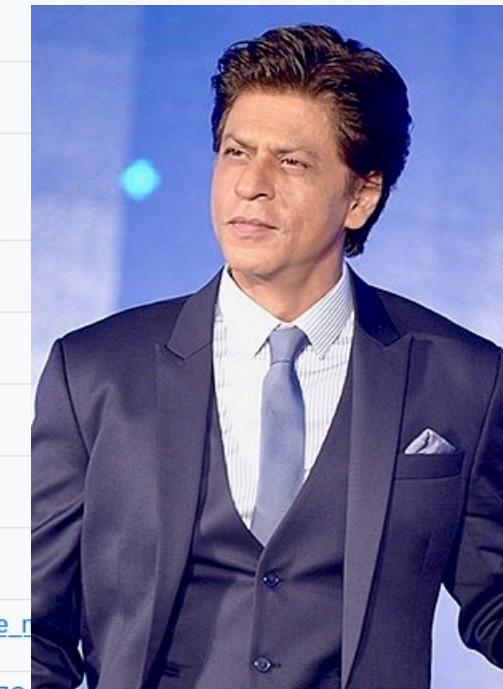
dbo:spouse • [dbr:Brad_Pitt](#)
• [dbr:Jonny_Lee_Miller](#)
• [dbr:Billy_Bob_Thornton](#)



Find in page ^ v Highlight All Match Case Match Diacritics Whole Words X

UNESCO's Pyramide con Marni award in 2011 for his support of children's education and the World Economic Forum's Crystal Award in 2018 for his leadership in championing women's and children's rights in India. He regularly features in listings of the most influential people in Indian culture, and in 2008, Newsweek named him one of their fifty most powerful people in the world. (en)

- | | |
|--|---|
| dbo:activeYearsStartYear | <ul style="list-style-type: none">• 1988-01-01 (xsd:gYear) |
| dbo:almaMater | <ul style="list-style-type: none">• dbr:Hansraj_College• dbr:Jamia_Millia_Islamia |
| dbo:award | <ul style="list-style-type: none">• dbr>List_of_awards_and_nominations_received_by_Shah_Rukh_Khan |
| dbo:birthDate | <ul style="list-style-type: none">• 1965-11-02 (xsd:date) |
| dbo:birthName | <ul style="list-style-type: none">• Shahrukh Khan (en) |
| dbo:birthPlace | <ul style="list-style-type: none">• dbr>New_Delhi |
| dbo:spouse | <ul style="list-style-type: none">• dbr:Gauri_Khan |
| dbo:thumbnail | <ul style="list-style-type: none">• wiki-commons:Special:FilePath/Shah_Rukh_Khan_graces...aunch_of_the_n |
| dbo:wikiPageExternalLink | <ul style="list-style-type: none">• https://books.google.com/books%3Fid=2wo9BAAAQBAJ&pg=PT143%7Cdate=1• https://web.archive.org/web/20161230074030/https://books.google.com/books%3Fid=RQL4dkVAnPIC&pg=PA253%7Curl-status=live• https://web.archive.org/web/20161230075920/https://books.google.com/books%3Fid=2wo9BAAAQBAJ&pg=PT143%7Curl-status=live• https://books.google.com/books%3Fid=1H9mdj4mViAC&pg=PA125%7Cdate=26• https://books.google.com/books%3Fid=1hyIWle4T0YC&pg=PA180%7Cdate=5• https://books.google.com/books%3Fid=3zE6ndYKml0C&pg=PA43%7Cdate=27• https://books.google.com/books%3Fid=9_PmysZli1cC&pg=PA142%7Cyear=2006%7Cpublisher=• https://books.google.com/books%3Fid=A3VvKZul_0UC&pg=PA110%7Cdate=27 |



Hinweis

- Operationalisieren Sie “Nationalität” als “Geburtsort”.
- (Stimmt nicht ganz, ist aber in DBpedia besser abgedeckt.)

Können wir Diversität messen?

- Sie haben (viele) verschiedene Schauspieler:innen zusammengestellt.
- Diese sind unterschiedlich hinsichtlich z.B. ihres Geburtsorts.
- Über die verschiedenen Werte von Nationalität hinweg suchen wir nach einer möglichst gleichmäßigen Verteilung.
- Nun hat bspw.
 - Gruppe 1 je 10 Männer aus den USA und Kanada,
 - Gruppe 2 10 Männer aus den USA und 10 Frauen aus Kanada,
 - Gruppe 3 10 Männer aus den USA und 10 Frauen aus Indien
- Welche Gruppe hat die “diversere” Auswahl getroffen?

Was kann zur Diversität beitragen?

- Sie haben (viele) verschiedene Schauspieler:innen zusammengestellt.
- Diese sind unterschiedlich hinsichtlich z.B. ihres Geburtsorts.
- Über die verschiedenen Werte von Nationalität hinweg suchen wir nach einer möglichst gleichmäßigen Verteilung.
- Nun hat bspw.
 - Gruppe 1 je 10 Männer aus den USA und Kanada,
 - Gruppe 2 10 Männer aus den USA und 10 Frauen aus Kanada,
 - Gruppe 3 10 Männer aus den USA und 10 Frauen aus Indien
- Welche Gruppe hat die “diversere” Auswahl getroffen?

Unser Tool: Der Diversity Searcher

- Auszüge aus

[https://people.cs.kuleuven.be/~bettina.berendt/Talks/karadeniz berendt 2021 04 1213.pdf](https://people.cs.kuleuven.be/~bettina.berendt/Talks/karadeniz_berendt_2021_04_1213.pdf)

Berendt, B., Karadeniz, Ö, Mertens, S., & d'Haenens, L. (2021). Fairness beyond "equal": The Diversity Searcher as a Tool to Detect and Enhance the Representation of Socio-political Actors in News Media. *Web Conference 2021 Companion Proceedings*. New York: ACM. ([last author version](#))

Dbpedia und Wikidata

Pitt. She has six children with Pitt, three of whom were adopted internationally. (en)

dbo:activeYearsStartYear	• 1982-01-01 (xsd:gYear)
dbo:alias	• Angelina Jolie Pitt (en)
dbo:award	• dbr>List_of_awards_and_nominations_received_by_Angelina_Jolie
dbo:birthDate	• 1975-06-04 (xsd:date)
dbo:birthName	• Angelina Jolie Voight (en)
dbo:birthPlace	• dbr:California • dbr:Los_Angeles
dbo:birthYear	• 1975-01-01 (xsd:gYear)
dbo:citizenship	• dbr:Cambodia
dbo:occupation	• dbr:Angelina_Jolie_PersonFunction_1
dbo:parent	• dbr:Marcheline_Bertrand • dbr:Jon_Voight
dbo:relative	• dbr:James_Haven • dbr:Barry_Voight • dbr:Chip_Taylor
dbo:spouse	• dbr:Brad_Pitt • dbr:Jonny_Lee_Miller • dbr:Billy_Bob_Thornton

Zur Erinnerung: DBpedia-Daten

Not Secure | de.dbpedia.org/page/Angelina_Jolie

Formats ▾

Faceted Browser Sparql Endpoint



Browse using ▾

Formats ▾

Faceted Browser

Sparql Endpoint

Property

Value

dbo:abstract

▪ Angelina Jolie Pitt [ændʒəˈlɪna dʒoʊl̩i], DCMG (* 4. Juni 1975 als Angelina Jolie Voight in Los Angeles, Kalifornien) ist eine US-amerikanische Schauspielerin, Filmregisseurin, Drehbuchautorin und Filmproduzentin. In Anerkennung ihres humanitären Einsatzes wurde ihr zusätzlich die kambodschanische Staatsbürgerschaft verliehen. Sie wurde mit der Darstellung der Videospielheldin Lara Croft in Lara Croft: Tomb Raider (2001) international bekannt. Weitere kommerzielle Erfolge hatte sie mit den Filmen Mr. & Mrs. Smith (2005), Wanted (2008), Salt (2010) und Maleficent – Die dunkle Fee (2014). Für ihre schauspielerischen Leistungen erhielt Jolie drei Golden Globes, zwei Screen Actors Guild Awards und für ihre Rolle einer psychisch Kranken in dem Film Durchgeknallt (1999) einen Oscar als beste Nebendarstellerin. Mit dem Kriegsdrama In the Land of Blood and Honey gab Jolie 2011 ihr Debüt als Spielfilmregisseurin und Drehbuchautorin. Sie ist zudem Sondergesandte des UN-Flüchtlingshochkommissars António Guterres und ehemalige Sonderbotschafterin für das UNO-Hochkommissariat für Flüchtlinge. (de)

dbo:activeYearsEndYear

▪ 2004-01-01 (xsd:date)

dbo:activeYearsStartYear

▪ 2004-01-01 (xsd:date)

dbo:birthDate

▪ 1975-06-04 (xsd:date)

dbo:birthPlace

▪ dbpedia-de:Kalifornien
▪ dbpedia-de:Los_Angeles
▪ dbpedia-de:Vereinigte_Staaten

dbo:individualisedGnd

▪ 123089190

dbo:lccn

▪ no/98/116294

dbo:personFunction

▪ dbpedia-de:Sexiest_Woman_Alive

query.csv

Show all

... und dies ...
... und 131 weitere



en.wikipedia.org/wiki/Angelina_Jolie

Upload file

Tools

What links here

Related changes

Special pages

Permanent link

Page information

Cite this page

Wikidata item

Print/export

Download as PDF

Printable version

In other projects

Wikimedia Commons

Wikiquote

Languages

Alemannisch

Dansk

Deutsch

Español

Français

Italiano

Nederlands

Русский

Türkçe

文 122 more

Edit links

the latter earned her a nomination for an [Academy Award for Best Actress](#). Her biggest commercial success came with the fantasy picture [Maleficent](#) (2014). Her voice roles include in the animation film series [Kung Fu Panda](#) since 2008. Jolie has also directed and written several war dramas, namely [In the Land of Blood and Honey](#) (2011), [Unbroken](#) (2014), and [First They Killed My Father](#) (2017). In 2021, Jolie portrayed Thena in the Marvel Cinematic Universe superhero film [Eternals](#).

Jolie is known for her humanitarian efforts, for which she has received a [Jean Hersholt Humanitarian Award](#) and made an honorary [Dame Commander of the Order of St Michael and St George](#), among other honors. She promotes various causes, including [conservation](#), education, and women's rights, and is most noted for her advocacy on behalf of refugees as a [Special Envoy](#) for the [United Nations High Commissioner for Refugees](#). Jolie has undertaken over a dozen field missions globally to [refugee camps](#) and war zones; her visited countries include Cambodia, Sierra Leone, Tanzania, Pakistan, Afghanistan, Syria, Sudan, Yemen, and Ukraine.

As a public figure, Jolie has been cited as one of the most powerful and influential people in the American entertainment industry. She has been cited as the world's most beautiful woman by various media outlets. Her personal life, including her relationships, marriages, and health, has been the subject of wide publicity. She is divorced from actors [Jonny Lee Miller](#), [Billy Bob Thornton](#) and [Brad Pitt](#). She has six children with Pitt, three of whom were adopted internationally.

Contents [hide]

1 Early life and education

2 Career

2.1 Early work (1991–1997)

2.2 Breakthrough (1998–2000)

2.3 Worldwide recognition (2001–2004)

2.4 Established actress (2005–2010)

2.5 Career expansion (2011–present)

2.5.1 Upcoming projects

3 Humanitarian work

3.1 UNHCR ambassadorship

3.2 Conservation and community development

3.3 Child immigration and education

3.4 Human rights and women's rights

3.5 Recognition and honors

4 Personal life

 Jolie in 2014

Born	Angelina Jolie Voight June 4, 1975 (age 47) Los Angeles, California, U.S.
Other names	Angelina Jolie Pitt ^[1]
Citizenship	United States · Cambodia ^[a]
Occupations	Actress · filmmaker · humanitarian
Years active	1982–present
Works	Full list
Spouses	Jonny Lee Miller (m. 1996; div. 2000) Billy Bob Thornton (m. 2000; div. 2003) Brad Pitt (m. 2014; div. 2019)
Children	6
Parents	Jon Voight (father) Marcheline Bertrand (mother)
Relatives	James Haven (brother) Barry Voight (uncle) Chip Taylor (uncle)

query.csv

Show all



Wie sollte man diese Daten verwalten und bearbeitbar machen?

wiki

wikidata.org/wiki/Q13909#sitelinks-wikipedia

ngelin...

Wikibooks (0 entries)

Wikinews (2 entries)

Wikiquote (24 entries)

Wikipedia (132 entries)

- af Angelina Jolie
- als Angelina Jolie
- an Angelina Jolie
- ar أنجلينا جولي
- arz أنجلينا جولي
- ast Angelina Jolie
- as এঙ্গেলিনা জলি
- azب آنجلينا جولي
- az Ancelina Coli
- be_x_old Анджелина Джали
- be Анджелина Джали
- bg Анджелина Джоли
- bn আংজেলিনা জোলি ☀
- bo སୁର୍ଯ୍ୟକାନ୍ତିରି
- br Angelina Jolie
- bs Angelina Jolie
- ca Angelina Jolie
- cbk_zam Angelina Jolie
- ceb Angelina Jolie
- ce Анджелина Джоли
- ckb ئانجلينا جوولى ☀
- csb Angelina Jolie
- cs Angelina Jolie

Wie sollte man diese Daten verwalten und bearbeitbar machen?

wikidata.org/wiki/Q13909#sitelinks-wikipedia

Vikipedia (132 entries)

- af Angelina Jolie
- als Angelina Jolie
- an Angelina Jolie
- ar أنجلينا جولي
- arz أنجلينا جولي
- ast Angelina Jolie
- as এঙ্গেলিনা জলি
- az آنجلینا جولی
- az Ancelina Coli
- be_x_old Анджэліна Джолі
- be Анджэліна Джолі
- bg Анджелина Джоли
- bn অ্যাঞ্জেলিনা জোলি ☀
- bo སୁର୍ବାତେ རୁକ୍ମିଣୀ
- br Angelina Jolie
- bs Angelina Jolie
- ca Angelina Jolie
- cbk_zam Angelina Jolie
- ceb Angelina Jolie
- ce Анджелина Джоли
- ckb ئانجلينا جوولى ☀
- csb Angelina Jolie
- cs Angelina Jolie

Wikibooks (0 entries)

Wikinews (2 entries)

- de Kategorie:Angelina Jolie
- ru Категория:Анджелина Джоли

Wikiquote (24 entries)

- ar أنجلينا جولي

Zentral und gerade unabhängig von den einzelnen Sprachversionen!

Das ist aber erst seit 2012 so ...
(https://web.archive.org/web/20121023170149/http://ia.de/wiki/Pressemitteilungen/PM_3_12_Wikidata_EN)

da Angelina Jolie

en Angelina Jolie

es Angelina Jolie

fa أنجلينا جولي

fr Angelina Jolie

he אַנְגֵלִינָה גּוֹלִי

hr Angelina Jolie

hu Angelina Jolie

hy Անդրեա Ջոլի

ig Angelina Jolie

it Angelina Jolie

the latter earned her a nomination for an [Academy Award for Best Actress](#). Her biggest commercial success came with the fantasy picture [Maleficent](#) (2014). Her voice roles include in the animation film series [Kung Fu Panda](#) since 2008. Jolie has also directed and written several war dramas, namely [In the Land of Blood and Honey](#) (2011), [Unbroken](#) (2014), and [First They Killed My Father](#) (2017). In 2021, Jolie portrayed Thena in the Marvel Cinematic Universe superhero film [Eternals](#).

Jolie is known for her humanitarian efforts, for which she has received a [Jean Hersholt Humanitarian Award](#) and made an honorary [Dame Commander of the Order of St Michael and St George](#), among other honors. She promotes various causes, including [conservation](#), education, and women's rights, and is most noted for her advocacy on behalf of refugees as a [Special Envoy](#) for the [United Nations High Commissioner for Refugees](#). Jolie has undertaken over a dozen field missions globally to [refugee camps](#) and war zones; her visited countries include Cambodia, Sierra Leone, Tanzania, Pakistan, Afghanistan, Syria, Sudan, Yemen, and Ukraine.

As a public figure, Jolie has been cited as one of the most powerful and influential people in the American entertainment industry. She has been cited as the world's most beautiful woman by various media outlets. Her personal life, including her relationships, marriages, and health, has been the subject of wide publicity. She is divorced from actors [Jonny Lee Miller](#), [Billy Bob Thornton](#) and [Brad Pitt](#). She has six children with Pitt, three of whom were adopted internationally.

<p>Wikidata item</p> <p>Print/export</p> <p>Download as PDF</p> <p>Printable version</p> <p>In other projects</p> <p>Wikimedia Commons</p> <p>Wikiquote</p> <p>Languages</p> <ul style="list-style-type: none"> Alemannisch Dansk Deutsch Español Français Italiano Nederlands Русский Türkçe <p>文 122 more</p> <p>Edit links</p>	<p>Contents [hide]</p> <p>1 Early life and education</p> <p>2 Career</p> <ul style="list-style-type: none"> 2.1 Early work (1991–1997) 2.2 Breakthrough (1998–2000) 2.3 Worldwide recognition (2001–2004) 2.4 Established actress (2005–2010) 2.5 Career expansion (2011–present) <ul style="list-style-type: none"> 2.5.1 Upcoming projects <p>3 Humanitarian work</p> <ul style="list-style-type: none"> 3.1 UNHCR ambassadorship 3.2 Conservation and community development 3.3 Child immigration and education 3.4 Human rights and women's rights 3.5 Recognition and honors <p>4 Personal life</p>	 <p>Jolie in 2014</p> <p>Born Angelina Jolie Voight June 4, 1975 (age 47) Los Angeles, California, U.S.</p> <p>Other names Angelina Jolie Pitt^[1]</p> <p>Citizenship United States · Cambodia^[a]</p> <p>Occupations Actress · filmmaker · humanitarian</p> <p>Years active 1982–present</p> <p>Works Full list</p> <p>Spouses Jonny Lee Miller (m. 1996; div. 2000) Billy Bob Thornton (m. 2000; div. 2003) Brad Pitt (m. 2014; div. 2019)</p> <p>Children 6</p> <p>Parents Jon Voight (father) Marcheline Bertrand (mother)</p> <p>Relatives James Haven (brother) Barry Voight (uncle) Chip Taylor (uncle)</p>
---	--	---

Sehr viel übersichtlicher als die Dbpedia-Daten, oder?

die Dbpedia-Daten, oder?

wikidata.org/wiki/Q13909

Create a new Item Recent changes Random Item Query Service Nearby Help Donate Lexicographical data Create a new Lexeme Recent changes Random Lexeme Tools What links here Related changes Special pages Permanent link Page information Concept URI Cite this page

Configure

Language	Label	Description	Also known as
English	Angelina Jolie	American actress (born 1975)	Angelina Jolie Voight
German	Angelina Jolie	US-amerikanische Schauspielerin und Filmproduzentin	Angelina Jolie Voight Angelina Jolie Pitt
French	Angelina Jolie	actrice, réalisatrice, scénariste, productrice, écrivaine et mannequin américano-cambodgiene (1975)	Angelina Jolie Voight Angelina Jolie Pitt
Bavarian	No label defined	No description defined	

All entered languages

Statements

instance of human ▶ 1 reference

part of Brangelina ▶ 1 reference

image 

query.csv Show all

Wie findet man Einträge (menschenlesbar)?

Screenshot of a Chrome browser window showing the Wikidata item page for Angelina Jolie (Q13909). The URL in the address bar is wikidata.org/wiki/Q13909. A yellow oval highlights the search bar and the "View history" button.

The page displays the following information:

- Label:** Angelina Jolie (Q13909)
- Description:** American actress (born 1975)
- Also known as:** Angelina Jolie Voight, Angelina Jolie Pitt
- In more languages:**

Language	Label	Description	Also known as
English	Angelina Jolie	American actress (born 1975)	Angelina Jolie Voight
German	Angelina Jolie	US-amerikanische Schauspielerin und Filmproduzentin	Angelina Jolie Voight Angelina Jolie Pitt
French	Angelina Jolie	actrice, réalisatrice, scénariste, productrice, écrivaine et mannequin américano-cambodgiene (1975)	Angelina Jolie Voight Angelina Jolie Pitt
Bavarian	No label defined	No description defined	
- Statements:**
 - instance of: human (1 reference)

On the left sidebar, the "Wikidata" logo is visible, along with a list of navigation links including Main page, Community portal, Project chat, Create a new Item, Recent changes, Random Item, Query Service, Nearby, Help, Donate, Lexicographical data, Create a new Lexeme, Recent changes, Random Lexeme, Tools, What links here, Related changes, Special pages, Permanent link, Page information, Concept URI, and Cite this page.

At the bottom of the screen, the Mac OS Dock shows various application icons.

Wie findet man Einträge (SPARQL)?

Chrome File Edit View History Bookmarks Profiles Tab Window Help zoom ⚡ 79 % Sun 20:02  

query.wikidata.org/#%23PREFIX%20rdfs%3A%20<http%3A%2F%2Fwww.w3.org%2F2000%2F01%2Frdf%20schema%23>%0A%0ASELECT%20%...       

Do you need help creating a query? You can build queries without having to write SPARQL in the new [Query Builder](#).

Wikidata Query Service Examples Help More tools Query Builder English

```
1 #PREFIX rdfs: <http://www.w3.org/2000/01/rdf schema>
2
3 SELECT ?eigenschaft ?wert
4 WHERE
5 {
6   wd:Q13909 ?eigenschaft ?wert.
7   SERVICE wikibase:label {
8     bd:serviceParam wikibase:language "en" .
9   }
10 }
```

<https://w.wiki/6B5t>

Resultate hier

1170 results in 664 ms

Table    

eigenschaft wert

query.csv  



Warum aber sieht das Resultat so aus?

Chrome File Edit View History Bookmarks Profiles Tab Window Help

zoom 97% Sun 20:30

query.wikidata.org/#%23PREFIX%20rdfs%3A%20<http%3A%2F%2Fwww.w3.org%2F2000%2F01%2Frdf%20schema%23>%0A%0ASELECT%20%

Update

eigenschaft	wert
p:P166	wds:Q13909-c906b704-48a4-33ef-bcaf-ac970fe100d8
p:P166	wds:Q13909-e7289d60-4de8-8160-d8f4-601c63740e28
p:P213	wds:q13909-920D0FD6-3ABC-426F-8230-81C49D671EC8
p:P214	wds:q13909-AFF0B474-4667-4DD9-B048-49D6B9D6A6E0
p:P227	wds:q13909-74555743-6F02-437B-A324-036062BFEA82
p:P244	wds:q13909-8A0BE284-98D1-4D48-8BF5-269817EC4A89
wdt:P268	140369577
wdt:P269	08412153X
wdt:P271	DA14737962
wdt:P345	nm0001401
wdt:P349	00964128
wdt:P361	wd:Q3351350
wdt:P373	Angelina Jolie
wdt:P396	UBOV552368
wdt:P409	42203393
wdt:P434	cbb15c0a-48c5-407c-892e-a9eb9f32af00

query.csv Show all



Was ist Wikidata?

- “Wikidata ist eine frei bearbeitbare [Wissensdatenbank](#), die unter anderem das Ziel hat, [Wikipedia](#) zu unterstützen. Das Projekt wurde von [Wikimedia Deutschland](#) gestartet und stellt als gemeinsame Quelle bestimmte Datentypen für Wikimedia-Projekte bereit, zum Beispiel Geburtsdaten oder sonstige allgemeingültige Daten, die in allen Artikeln der Wikimedia-Projekte verwendet werden können.
- Seit dem Start 2012 verzeichnet Wikidata ein vergleichsweise starkes Wachstum an Inhaltsseiten; mittlerweile sind rund 100 Millionen Datenobjekte vorhanden (Stand August 2022).
- Die Angaben in Wikidata stehen unter der [Creative-Commons-Lizenz CC0 1.0 Universal \(CC0 1.0\) Public Domain Dedication](#). Dadurch können die Daten ohne Angabe eines Urhebers frei verwendet werden. Alle anderen Namensräume stehen unter der [Creative-Commons-Attribution/Share-Alike-Lizenz \(CC BY-SA 3.0\)](#).
- “According to a 2020 study, a large proportion of the data on Wikidata consists of entries imported en masse from other databases by [Internet bots](#), which helps to "break down the walls" of [data silos](#).
 - (Waagmeester, Andra; Stupp, Gregory; Burgstaller-Muehlbacher, Sebastian; et al. (17 March 2020). ["Wikidata as a knowledge graph for the life sciences". eLife](#). 9. doi:[10.7554/ELIFE.52614](https://doi.org/10.7554/ELIFE.52614). ISSN 2050-084X. PMC 7077981. PMID 32180547. Wikidata Q87830400.)”

Wie extrahiert man soziale Graphen?

Gehen wir zurück zum Beispiel “Game of Thrones”.

Characters from Game of Thrones

```
SELECT ?character ?name_of_character
```

```
WHERE
```

```
{
```

```
?character wdt:P31 wd:Q20086263. # instance of, Game of Thrones character
```

```
?character wdt:P1559 ?name_of_character. # name in native language
```

```
SERVICE wikibase:label { bd:serviceParam wikibase:language "en" . }
```

```
}
```

<https://w.wiki/6B3F>

Fathers

```
SELECT ?character1 ?character2 ?name_of_character1 ?name_of_character2
WHERE
{
    ?character1 wdt:P31 wd:Q20086263. # p: instance of, o: Game of Thrones character
    ?character2 wdt:P31 wd:Q20086263. # p: instance of, o: Game of Thrones character
    ?character1 wdt:P1559 ?name_of_character1. # p: name in native language
    ?character2 wdt:P1559 ?name_of_character2. # p: name in native language
    ?character1 wdt:P22 ?character2. # father
SERVICE wikibase:label {
    bd:serviceParam wikibase:language "en" .
}
```

<https://w.wiki/6B3M>

Parents

```
SELECT ?character1 ?character2 ?name_of_character1 ?name_of_character2
WHERE
{
?character1 wdt:P31 wd:Q20086263. # p: instance of, o: Game of Thrones character
?character2 wdt:P31 wd:Q20086263. # p: instance of, o: Game of Thrones character
?character1 wdt:P1559 ?name_of_character1. # p: name in native language
?character2 wdt:P1559 ?name_of_character2. # p: name in native language
{SELECT ?character1 ?character2
WHERE
{
?character1 wdt:P22 ?character2.} # p: father
UNION
?character1 wdt:P25 ?character2.} # p: mother
}
SERVICE wikibase:label { bd:serviceParam wikibase:language "en" . }
}
ORDER BY ?character1
```

<https://w.wiki/6B3Z>

Parents (2)

```
SELECT ?character1 ?character2 ?name_of_character1 ?name_of_character2
WHERE
{
    ?character1 wdt:P31 wd:Q20086263. # p: instance of, o: Game of Thrones character
    ?character2 wdt:P31 wd:Q20086263. # p: instance of, o: Game of Thrones character
    ?character1 wdt:P1559 ?name_of_character1. # p: name in native language
    ?character2 wdt:P1559 ?name_of_character2. # p: name in native language
    ?character1 ?relationship ?character2.
    FILTER (?relationship=wdt:P22 || ?relationship=wdt:P25) # father or mother
    SERVICE wikibase:label {
        bd:serviceParam wikibase:language "en" .
    }
}
ORDER BY ?character1
```

<https://w.wiki/6B3c>

Various family relationships

```
SELECT ?character1Label ?character2Label ?verbindungLabel
WHERE
{
  ?character1 wdt:P31 wd:Q20086263. # p: instance of, o: Game of Thrones character
  ?character2 wdt:P31 wd:Q20086263. # p: instance of, o: Game of Thrones character
  ?character1 ?verbindungt ?character2.

  FILTER (?verbindungt=wdt:P22 || ?verbindungt=wdt:P25 ||
?verbindungt=wdt:P3373 || ?verbindungt=wdt:P451 || ?verbindungt=wdt:P1038) #

all family-type relationships

?verbindung wikibase:directClaim ?verbindungt.

  SERVICE wikibase:label { bd:serviceParam wikibase:language "en" . }

}
ORDER BY ?character1
```

<https://w.wiki/6B4n>

How to get from an entity to its label

```
SELECT ?character1Label ?character2Label ?verbindungLabel
```

```
WHERE
```

```
{
```

For each entity variable you introduce, you get its label in WD ‘for free’ (just add “Label” to its name). PS: same with “Description”.

```
?character1 wdt:P31 wd:Q20086263. # p: instance of, o: Game of Thrones character
```

```
?character2 wdt:P31 wd:Q20086263. # p: instance of, o: Game of Thrones character
```

```
?character1 ?verbindungt ?character2.
```

```
FILTER (?verbindungt=wdt:P22 || ?verbindungt=wdt:P25 ||  
?verbindungt=wdt:P3373 || ?verbindungt=wdt:P451 || ?verbindungt=wdt:P1038) #  
all family-type relationships
```

```
?verbindung wikibase:directClaim ?verbindungt.
```

```
SERVICE wikibase:label { bd:serviceParam wikibase:language "en" . }
```

```
}
```

Set the language for labels and descriptions here.

```
ORDER BY ?character1
```

How to get from a property to its label

```
SELECT ?character1Label ?character2Label ?verbindungLabel
```

```
WHERE
```

```
{
```

```
?character1 wdt:P31 wd:Q20086263. # p: instance of, o: Game of Thrones character  
?character2 wdt:P31 wd:Q20086263. # p: instance of, o: Game of Thrones character  
?character1 ?verbindungt ?character2.
```

```
FILTER (?verbindungt=wdt:P22 || ?verbindungt=wdt:P25 ||  
?verbindungt=wdt:P3373 || ?verbindungt=wdt:P451 || ?verbindungt=wdt:P1038) #  
all family-type relationships
```

```
?verbindung wikibase:directClaim ?verbindungt.
```

For each property (variable), first derive its pseudo-entity. Then you can access the label of this entity.

```
SERVICE wikibase:label { bd:serviceParam wikibase:language "en" . }
```

```
}
```

Set the language for labels and descriptions here.

```
ORDER BY ?character1
```

Again, you can get the description of this entity analogously

Result, slightly post-processed, for Gephi

1. Via Wikidata Query Services's Download option, download a CSV.
2. Adjust the labels in the first row analogously to the other Game of Thrones dataset.
3. Result: see ISIS
4. Run analyses and visualise ☺

Frage

- Die Daten sind offensichtlich unterschiedlich von denen, die wir im Teil zu “Social Network Analysis” benutzt haben.
- Warum?
- Können Sie hier Biases (im Sinne des ersten Teils der Vorlesung) ausmachen? Welche?

Wo sind wir, und wo wollen wir hin?

- ✓ Wikipedia kann als Graph betrachtet werden.
- ✓ Wikipedia kann auch als Datenbank betrachtet werden.
- ✓ Ein wichtiger Teil dieser Datenbank ist Dbpedia.
- ✓ Wofür (1)? Ein Anwendungsbeispiel: Diversität in den Medien
- ✓ Dbpedia und Wikidata (Teil 1)
- Format: RDF, RDFS und z.T. OWL; Linked Open Data
 - Das kann auch als relationale Datenbank dargestellt werden (bzw. es können Auszüge generiert werden).
- Anfragesprache: SPARQL; mehr Wikidata
- **Hausarbeit:** Wofür (2)? Selber recherchieren und neue Information hinzufügen.