Evaluating and Improving Navigability of Wikipedia

A Comparative Study of Eight Language Editions

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Dimitar Dimitrov

Denis Helic

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GESIS - Leibniz Institute for the Social Sciences

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Usage Scenarios for Wikipedia



- Visitor goals are diverse
- not all goals are satisfiable by search queries
 - research of one or multiple related topics
 - search for something on the tip of one's tongue
 - discovery (serendipity)
- some users prefer navigation
- 30% of clicks referred internally

User Attention on Wikipedia

- Users generally have a restricted view of the Web
- areas close to top and left receive disproportional attention
- English Wikipedia:
 - links at the top receive 30-50% of clicks
- How does this affect navigability?

Joseph Gordon-Levitt

From Wikipedia, the free encyclopedia

Joseph Leonard Gordon-Levitt^[1] (/ˌdʒoʊsəf lɛnərd gɔːrdən ˈlɛvɨt/; born February 17, 1981)[2][3][4] is an American actor and filmmaker. As a child actor, he appeared in the films A River Runs Through It. Angels in the Outfield and 10 Things I Hate About You. and as Tommy Solomon in the TV series 3rd Rock from the Sun. He took a break from acting to study at Columbia University, but dropped out in 2004 to pursue acting again. He has since starred in 500 Days of Summer, Inception, Hesher, 50/50, Premium Rush, The Dark Knight Rises, Brick, Looper, The Lookout, Manic, Lincoln, Mysterious Skin and G.I. Joe: The Rise of Cobra.

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1 Early life 2 Career 2.1 Early acting work 2.2 Later acting work 2.3 Directing and producing 2.3.1 HitRecord

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3 Personal life

4 Filmography

4.1 Film

4.2 Television

4.3 Video games

5 See also

6 References 7 External links



screening of Don Jon, November 2013

February 17, 1981 (age 35)

Occupation Actor · filmmaker · production

Years active 1988-present

Spouse(s) Tasha McCauley (m. 2014) Children

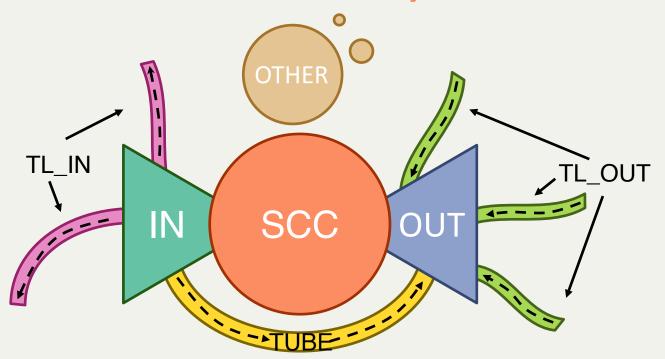
Relatives Michael Gordon (grandfather)

Early life

Gordon-Levitt was born in Los Angeles. California.[11] and was raised in its Sherman Oaks neighborhood.[77] He is Jewish, from a family that is "not strictly religious".[8][9] his parents were among the founders of the Progressive Jewish Alliance.[10][11][12] His father, Dennis Levitt, was once the news director for the Pacifica Radio station, KPFK-FM. [13][14] His mother, Jane Gordon, ran for the United States Congress in California during the 1970s for the Peace and Freedom Party; she met Dennis Levitt while she was working as the program guide editor for KPFK-FM. [13] Gordon-Levitt's maternal grandfather. Michael Gordon, was a Hollywood film director between the 1940s and 1970s, and directed the 1959 Doris Day/Rock Hudson film Pillow Talk.[13] Gordon-Levitt attended Van Nuys High School and graduated with honors in 1999.[15]

State of Navigability on Wikipedia

Bow Tie Analysis



Navigational View: Entire Article

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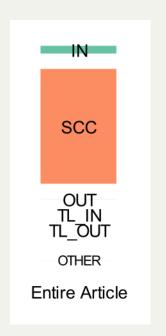
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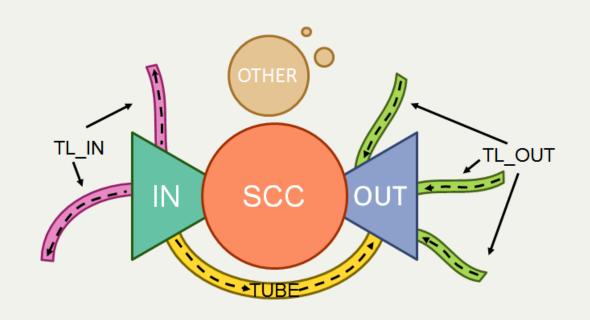
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company owner

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English Wikipedia

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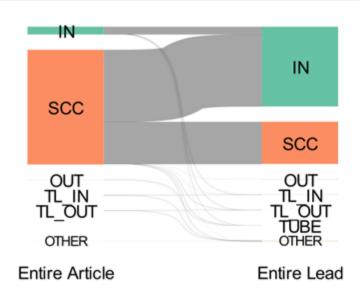
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Navigational Views: First Lead Paragraph

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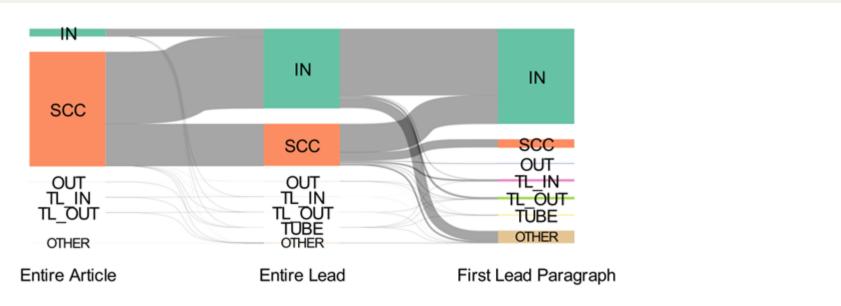
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Bow Tie Analysis



SCC
OUT
TL_IN
TL_OUT
TUBE
OTHER

Infobox

Navigational View: First Link

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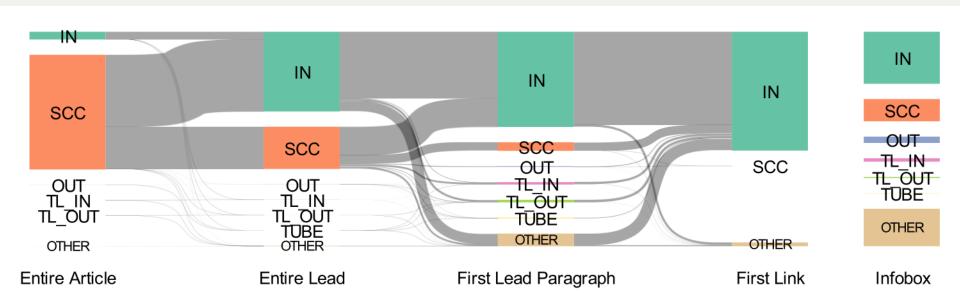
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Bow Tie Analysis



First Link Networks



Main page Contents Featured content Current events Random article Donate to Wikipedia Wikipedia store

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Project page Talk

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Wikipedia:Getting to Philosophy

From Wikipedia, the free encyclopedia



This essay contains the advice or opinions of one or more Wikipedia contributors. Essays are not Wikipedia policies or guidelines. Some essays represent widespread norms; others only represent minority viewpoints.

Clicking on the first lowercase link in the main text of a Wikipedia article, and then repeating the process for subsequent articles, usually eventually gets one to the Philosophy article. As of May 26, 2011, 94.52% of all articles in Wikipedia lead eventually to the article Philosophy. The remaining 100,000 (approx.) links to an article with no wikilinks or with links to pages that do not exist, or get stuck in loops (all three are equally probable).^[1] The median link chain length to reach philosophy is 23. It takes 14 clicks to get to Philosophy from this page.

There have been some theories on this phenomenon, with the most prevalent being the tendency for Wikipedia pages to move up a "classification chain." According to this theory, the Wikipedia Manual of



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First Link Networks

Language	IN Component	Article titles (translated)
English		
German		
French		
- C - 1		
Spanish		
D:		
Russian		
Italian		
Italiali		
Japanese		
Dutch		

First Link Networks

Language	IN Component	Article titles (translated)
English	97.0%	Philosophy (92.1%), Existence, Ontology,
		Reality
German	95.8%	Philosophy (95.8%), World, Totality
French	85.0%	Philosophy (68.8%), Linguistics, Disci-
		pline (academia), Knowledge, Ancient Greek,
		Knowledge, Notion (philosophy), Greek lan-
		guage, Feature (linguistics), Isogloss, Centum
		and satem languages, Hellenic languages
Spanish	87.8%	Psychology (87.7%), Profession, Activity,
		Specialization
Russian	73.7%	Philosophy (58.9%), Mathematics, Science,
		Cognition, Object (philosophy), Set theory,
		Method (philosophy), Systematization, Objec-
		tivity (philosophy)
Italian	73.2%	Science (39.0%), Knowledge, Biology, Psy-
		chology, Psyche (psychology), Tissue (biol-
		ogy), Central nervous system, Brain, Nervous
		system, Awareness
Japanese	82.3%	Person (82.3%), Interpersonal relationship
Dutch	67.0%	Knowledge (67.0%), Know-how

State of Navigability

- Entire Article:
 - large SCC
 - almost all articles reachable
- Entire Lead:
 - a third of articles mutually reachable
 - one-way structure
- First Lead Paragraph & Infobox:
 - very small SCC
 - navigability severely impeded
- Similar results for all of the eight largest Wikipedia versions

Potential Explanations

- Number of outlinks
 - correlation with SCC size of ρ = 0.74 for the *entire* article view only
- Number of edits
 - correlation with SCC size of ρ = 0.83 for the *first lead* paragraph view only
 - the more edits, the more attention to the beginning

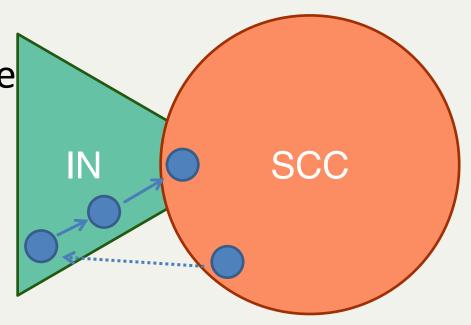
Link Recommendations

Motivation

- goal: increasing the SCC size
- requires two links
- focus on the IN component

Ranking of Links

- adding a link potentially adds several nodes to the SCC
- 1) rank by number of nodes
- 2) rank by sum of view counts



Identifying Links

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Joseph Gordon-Levitt

Actor

Joseph Leonard Gordon-Levitt is an American actor and filmmaker. As a child actor, he appeared in the films A River Runs Through It, Angels in the Outfield and 10 Things I Hate About You, and as Tommy Solomon in the TV series 3rd Rock from the Sun. Wikipedia

Born: February 17, 1981 (age 35), Los Angeles, California, United States

Height: 1.76 m

Spouse: Tasha McCauley (m. 2014)

Siblings: Daniel Gordon-Levitt

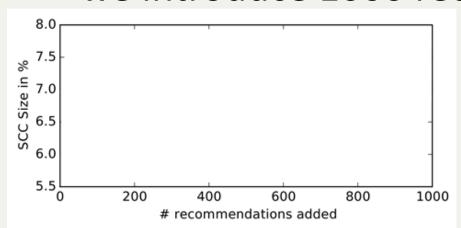
TV shows: 3rd Rock from the Sun, Roseanne, Dark Shadows, The Powers That Be

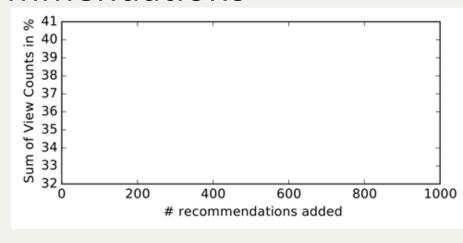
Approach

- select links from a less restricted view
- Goals:
 - suggest link recommendations to editors
 - show effects based on SCC size and view counts

Demonstration

we introduce 1000 recommendations

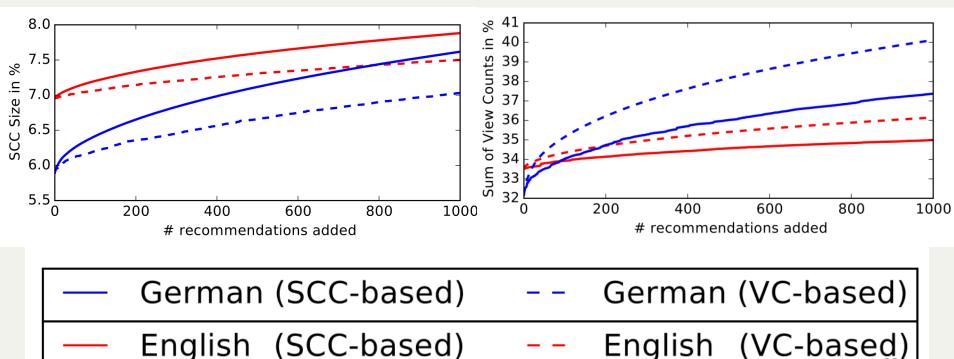






Demonstration

we introduce 1000 recommendations



Wrap Up

Wrap Up

- Navigability is important for Wikipedia
- State of navigability on Wikipedia:
 - very well-connected for entire article
 - substantial drawbacks for restricted views
- navigability can be improved by editing or moving links

Future Work

- Learn more about the types of articles
 - Both recommenders and recommendees
- Make information available to Wikipedia editors

Evaluating and Improving Navigability of Wikipedia

A Comparative Study of Eight Language Editions

Daniel Lamprecht

Dimitar Dimitrov

Denis Helic

Markus Strohmaier

KTI, Graz University of Technology

GESIS - Leibniz Institute for the Social Sciences

KTI, Graz University of Technology

GESIS - Leibniz Institute for the Social Sciences University of Koblenz-Landau