

Knowledge Discovery - Publishing and Presentation in Life Science Economics and Policy Research

Winter Term 2013/14

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Knowledge Discovery - Publishing and Presentation in Life Science Economics and Policy Research

Agenda

- 1. Introducion
- 2. Definition Plagiarism
- 3. Legal Consequences
- 4. Plagiarism Law Enforcement
- Textmining (Pattern Detection)
- 6. Plagiarism Software (TurnitIN)
- 7. TurnitIN Exercise



pla-gia-rism noun \'plā-jə-ˌri-zəm also -jē-ə-\

: the act of using another person's words or ideas without giving credit to that person



To "plagiarize" means

to steal and pass off (the ideas or words of another) as one's own to use (another's production) without crediting the source to commit literary theft to present **as new** and original an idea or product derived from an existing source

In other words, plagiarism is an act of fraud. It involves both stealing someone else's work and lying about it afterward.



How can it be assured that nobody is stealing someone else's work and lying about it afterwards?



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First you have to know what types of plagiarism exist



How can it be assured that nobody is stealing someone else's work and lying about it afterwards?

First you have to know what types of plagiarism exist

Second, you have to know what **consequences** arise from an abuse of plagiarism.



How can it be assured that nobody is stealing someone else's work and lying about it afterwards?

First you have to know what types of plagiarism exist

Second, you have to know what **consequences** arise from an abuse of plagiarism.

.. and you have to know how to **detect** plagiarism



Types of Plagiarism

.. ordered from most to least severe

1. CLONE:

An act of submitting another's work, word-forword, as one's own.

2. CTRL-C:

A written piece that contains significant portions of text from a single source without alterations.

3. FIND-REPLACE:

The act of changing key words and phrases but retaining the essential content of the source in a paper.

4. REMIX:

An act of paraphrasing from other sources and making the content fit together seamlessly.

5. RECYCLE:

The act of borrowing generously from one's own previous work without citation; To self plagiarize.

6. HYBRID:

The act of combining perfectly cited sources with copied passages—without citation—in one paper.

7. MASHUP:

A paper that represents a mix of copied material from several different sources without proper citation.

8. 404 ERROR:

A written piece that includes citations to non-existent or inaccurate information about sources

9. AGGREGATOR:

The "Aggregator" includes proper citation, but the paper contains almost no original work.

10. RE-TWEET:

This paper includes proper citation, but relies too closely on the text's original wording and/or structure.



Types of Plagiarism

Exercise:

Please make groups of two and try to identify the type of plagiarism for each of the 10 cases!



Types of Plagiarism

Exercise:

Original text from Wikipedia: "Yosemite Valley." Wikipedia. Wikipedia. 20 Apr. 2012. URL: http://en.wikipedia.org/wiki/Yosemite_Valley

A Natural Setting

A History of Exploration and Settlement in Yosemite Valley

Since its first discovery by non-indigenous people in the mid-nineteenth century, Yosemite Valley has held a special, even religious, hold on the American conscience because its beauty makes it an incomparable valley and one of the grandest of all special temples of Nature. While Yosemite holds a special grip on the western mind, perceptions about the Valley have evolved over time due to changing politics, migration patterns and environmental concerns as man has become more attuned to his relationship and impact on nature.





1. Clone

Submitting another's work, word-for-word, as one's own

Original Unoriginal

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Source: Whitepaper, http://pages.turnitin.com/rs/iparadigms/images/Turnitin_WhitePaper_PlagiarismSpectrum.pdf, last accessed: Oct. 24, 2013





2. CTRL-C

Contains significant portions of text from a single source without alterations

Original Unoriginal

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The Beautiful Yosemite Valley

From the time of its first discovery by non-indigenous people in the mid-nineteenth century Yosemite Valley has held a special, even religious, possession on the American conscience because its beauty makes it an incomparable valley and one of the grandest of all special temples of Nature. And Yosemite holds a special grip on the western mind, while perceptions about the Valley have evolved over time due to changing politics, migration patterns and environmental concerns as man has become more attuned to his relationship and impact on nature.





3. Find - Replace

Changing key words and phrases but retaining the essential content of the source

Original Unoriginal

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A Beautiful Setting in Yosemite

Since its first discovery by non-native people in the mid-19th century
Yosemite Valley has held a special, even sacred, hold on the
American psyche because its beauty makes it an incomparable valley
and one of the grandest of all special temples of Nature. While
Yosemite holds a special grip on the western mindset, perceptions
about the Valley have evolved over time due to changing political
movements, migration patterns and environmental issues as man has
become more attuned to their relationship and impact on nature.





4. Remix

Paraphrases from multiple sources, made to fit together

Original Unoriginal

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Since its first discovery by non-indigenous people in the mid-nineteenth century, Yosemite Valley has held a special, even religious, hold on the American conscience because its beauty makes it an incomparable valley and one of the grandest of all special temples of Nature. While Yosemite holds a special grip on the western mind, perceptions about the Valley have evolved over time due to changing politics, migration patterns and environmental concerns as man has become more attuned to his relationship and impact on nature.

An Untouched View

A History of Settlement and Change in Yosemite Valley

The first non-natives to see Yosemite Valley were probably members of the mid-nineteenth century Joseph Walker Party, who crossed the Sierra Nevada from East to West. The first descriptions of Yosemite came almost 20 years later. From the start, the valley has been renowned for its natural beauty, and highly regarded as he centerpiece of Yosemite National Park, attracting visitors from around the world. While Yosemite holds a special grip on the western mind, perceptions about the Valley have evolved over time due to changing politics, migration patterns and environmental concerns as man has become more attuned to their relationship and impact on nature.





5. RECYCLE:

The act of borrowing generously from one's own previous work without citation; To self plagiarize.

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Since its first discovery by non-indigenous people in the mid-nineteenth century, Yosemite Valley has held a special, even religious, hold on the American conscience because its beauty makes it an incomparable valley and one of the grandest of all special temples of Nature. While Yosemite holds a special grip on the western mind, perceptions about the Valley have evolved over time due to changing politics, migration patterns and environmental concerns as man has become more attuned to his relationship and impact on nature.

Ecology 201:

An Unnatural Expectation

The Impact of Exploration and Settlement in Yosemite Valley

From its first discovery by the Ahwahnechee in the mid-nineteenth century Yosemite Valley has held a unique, even religious, hold on the American conscience because its beauty makes it an incomparable valley and one of the grandest of all special temples of Nature. While Yosemite holds a special grip on the western mind, perceptions about the Valley have evolved over time reflecting changing politics, human migration patterns and the rise of environmental concerns as man has become more attuned to his relationship and impact on nature.





6. HYBRID:

The act of combining perfectly cited sources with copied passages—without citation—in one paper...

Original

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Unoriginal

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A History of Exploration and Settlement in Yosemite Valley

Since its first discovery by non-indigenous people in the mid-nineteenth century, Yosemite Valley has held a special, even religious, hold on the American conscience because its beauty makes it an incomparable valley and one of the grandest of all special temples of Nature. "Native Americans have lived in the Yosemite region for as long as 8,000 years. The first people that we have record of was a band of Native Americans that called the Valley "Ah-wahnee" and themselves the Ahwahnechee." While Yosemite holds a special grip on the western mind, perceptions about the Valley have evolved over time due to changing politics, migration patterns and environmental concerns as man has become more attuned to his relationship and impact on nature.

1 "Yosemite Valley." Wikipedia. Wikipedia. 20 Apr. 2012. http://en.wikipedia.org/wiki/Yosemite_Valley





7. MASHUP:

A paper that represents a mix of copied material from several different sources without proper citation..

Original

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Since its first discovery by non-indigenous people in the mid-nineteenth century, Yosemite Valley has held a special, even religious, hold on the American conscience because its beauty makes it an incomparable valley and one of the grandest of all special temples of Nature. While Yosemite holds a special grip on the western mind, perceptions about the Valley have evolved over time due to changing politics, migration patterns and environmental concerns as man has become more attuned to his relationship and impact on nature.

Unoriginal

A Natural Setting

A History of Exploration and Settlement in Yosemite Valley

Since its first discovery by non-indigenous people in the mid-nineteenth century Yosemite Valley has held a special, even religious, hold on the American conscience. The work of Ayres gave easterners an appreciation for Yosemite Valley and started a movement to preserve it. While Yosemite holds a special grip on the western mind, perceptions about the Valley have evolved over time due to changing politics, migration patterns and environmental concerns as man has become more attuned to their relationship and impact on nature. The 1849 California Gold Rush led to conflicts between miners and natives, and the volunteer Mariposa Battalion was formed by the state of California as a punitive expedition against natives in the Yosemite area.





8. 404 ERROR:

A written piece that includes citations to non-existent or inaccurate information about sources

Original

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Unoriginal

Perceived Beauty: Man's Nature

Exploration and Settlement in Yosemite Valley

"Since its first discovery by the Joseph Walker Party in the mid-nineteenth century" (Yosemite Valley has held a special, even religious, hold on the American conscience because its beauty makes it an incomparable valley and one of the grandest of all "special temples of Nature." 2 "While Yosemite holds a special grip on the western mind, perceptions about the Valley have evolved over time due to changing politics, migration patterns and environmental concerns as man has become more attuned to their relationship and impact on nature." 3

November 2000 : 18-22. Print.

³ Huang et al. "Politics, Policy, and the Environment." Nature and Society. 25.3 (1997): 127-53. Print.

¹ For an insightful discussion of Walker's expedition, including an extended description of their first sight of Yosemite Valley, see Walker's original piece in *The Golden Times*. May 5, 1833: p. 4. Print.
² Bloom, H. "Aesthetics of the Found: The 'Nature' of the Natural." *Aesthetics and the Found*.





9. AGGREGATOR:

The "Aggregator" includes proper citation, but the paper contains almost no original work.

Original

A Natural Setting

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Since its first discovery by non-indigenous people in the mid-nineteenth century, Yosemite Valley has held a special, even religious, hold on the American conscience because its beauty makes it an incomparable valley and one of the grandest of all special temples of Nature. While Yosemite holds a special grip on the western mind, perceptions about the Valley have evolved over time due to changing politics, migration patterns and environmental concerns as man has become more attuned to his relationship and impact on nature.

-

A Natural Setting

A History of Exploration and Settlement in Yosemite Valley'

Yosemite Valley was first sighted by non-Indians in 1833 by Joseph

Rutherford Walker and his group of explorers.2 Yosemite has a long

and diverse cultural history that helped to shape the region, country,

and even the world.3 While Yosemite holds a special grip on the

western mind, perceptions about the Valley have evolved over time

due to changing politics, migration patterns and environmental

concerns as man has become more attuned to their relationship and

impact on nature.4

4 Harrick, C. "A Natural Setting," p. 41.

¹ Harrick, C. "A Natural Setting." Nature and its Discontents 23.1 (1996): 41-50. Print.

^{2 &}quot;History of Yosemite," Yosemitegold.com Ace & Friends, n.d. Web. 24 Apr. 2012. http://www.yosemitegold.com/yosemite/history.html

³ "Yosemite National Park Cultural History," Yosemitepark.com DNC Parks and Resorts at Yosemite, Inc., n.d. Web. 24 Apr. 2012. http://www.yosemitepark.com/cultural-history.aspx





10. RE-TWEET:

This paper includes proper citation, but relies too closely on the text's original wording and/or structure.

Origina

A Natural Setting

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Unoriginal

A History of Exploration and Settlement in Yosemite Valley

From its earliest discovery by non-indigenous people in the mid-nineteenth century Yosemite Valley has held a spiritual hold on the American conscience; its beauty is incomparable and has been held up as one of the grandest of all special temples of Nature. While Yosemite has a special grip on the western mind, impressions about the Valley have evolved over time, shaped by changing politics, migration patterns and environmental concerns as mankind has become more attuned to its relationship and impact on nature.

1 Harrick, C. "A Natural Setting." Nature and its Discontents 23.1 (1996): 41-50. Print.



Plagiarism – Legal Consequences

Plagiarism is a violation of the following law entities:

- Intellectual Property (in german: Urheberschutz)
 § § , 23,..., 106 bis 111 UrhG
- Deception / Fraud (in german: Täuschung)
 § 263 Abs. 1 StGB
- 3. Violation of regulations of different organizations and bodies / local legislations
 - USA Code of Honour ..
 - Promotionsordnung
 - TUM Research Code of Conduct
- 4. National legislations e.g. Universitätsgesetz in Austria



Plagiarism – What does that have to do with me?

For every bachelor, master or Phd Thesis, it is mandatory to post and sign an Affidavit





Plagiarism – What does that have to do with me?

Consequences:

- Destroyed Student Reputation
- Destroyed Professional Reputation
- Destroyed Academic Reputation
- Legal Repercussions
- Monetary Repercussions
- Plagiarized Research



Textmining vs. Datamining – Classification

Definintion:

Data mining - the analysis step of the "Knowledge Discovery in Databases" process (KDD)

Table 1: A classification of data mining and text data mining applications.

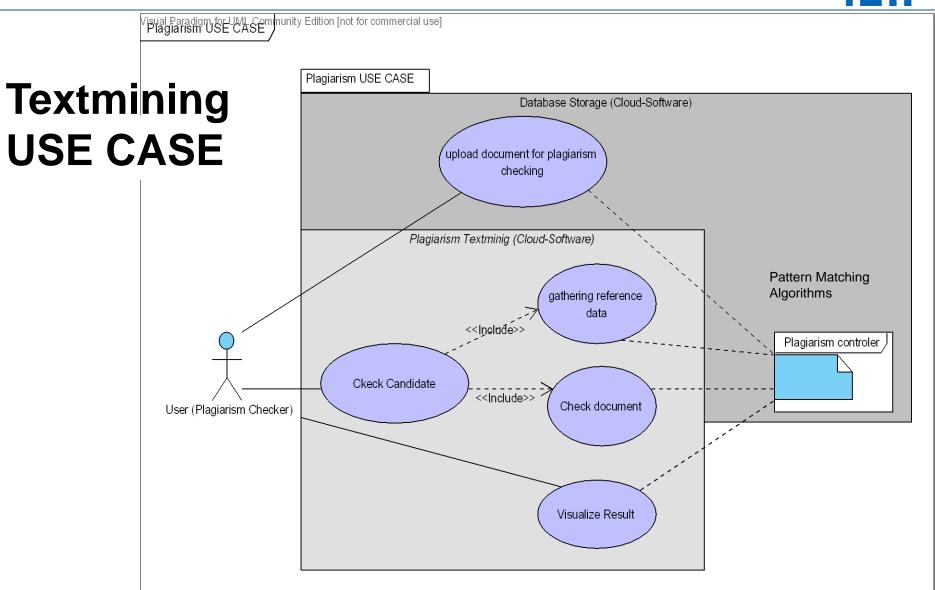
	Finding Patterns	Finding Nuggets	
		Novel	Non-Novel
Non-textual data	standard data mining	?	database queries
Textual data	computational linguistics	real TDM	information retrieval



Textmining – Datamining for Patterns in textual DB

Text mining, which is a special form of data mining from textual databases, may be defined in a very similar manner: Text mining is part of discovering previously unknown **patterns** useful for **particular purposes** from textual databases.

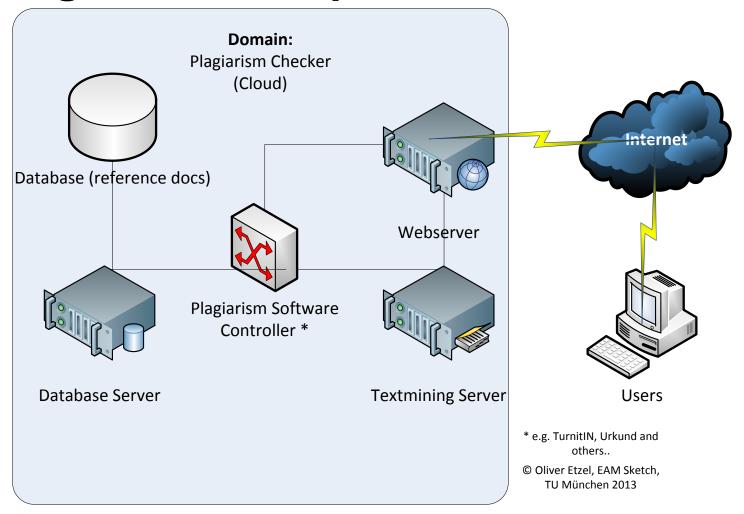




Source: Oliver Etzel, Textmining USE CASE, own representation, Knowledge Discovery Lecture, winter term 13/14, Technische Universität München, WZ Weihenstephan, Oct. 24, 2013, seminar room 14 (old academy-buidling)



Plagiarism-Enterprise Architecture Model



Source: Oliver Etzel, Plagiarism - Enterprise Architecture Model (Sketch), own representation, Knowledge Discovery Lecture, winter term 13/14, Technische Universität München, WZ Weihenstephan, Oct. 24,2013, seminar room 14 (old academy-buidling)



Plagiarism Checker Usage Policy (General Terms of Use), **Example TurnitIN**:

"...Unless otherwise indicated in this Site, including our Privacy Policy or in connection with one of our services, any communications or material of any kind that you e-mail, post, or transmit through the Site (excluding personally identifiable information of students and any papers submitted to the Site), including, questions, comments, suggestions, and other data and information (your "Communications") will be treated as non-confidential and non-proprietary. You grant iParadigms a non-exclusive, royalty-free, perpetual, world-wide, irrevocable license to reproduce, transmit, display, disclose, and otherwise use your Communications on the Site or elsewhere for our business purposes. .."

Please discuss the problems for reseach intensive newest publications

Source: TurnitIN Usage Policy, URL: http://turnitin.com/en_us/about-us/privacy-center/usage-policy, last accessed: Oct. 23, 2013



Plagiarism Checker Usage Policy (General Terms of Use), **Example TurnitlN**:

Problems:

- General Terms of Use can be changed on-thy-fly via website update
- Risk of loosing control about your newest research results
- -> But IP rights are almost ever stronger than General Terms of Use ©



Plagiarism Checker which are cloud based (like TurnitIN):

Where is your newest research stored?

- => Dangerous for research results in natural science and engineering
- => Who has access to the cloud database,

What if it's hacked? How are your IP rights?





Problems with cloud computing?

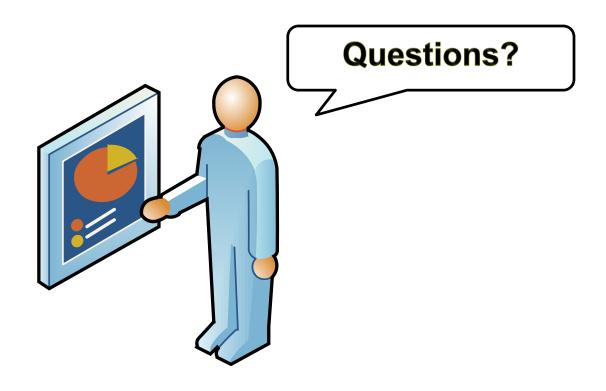


TurnitIN Exercise

Active Demonstration of TurnitIN



Thank you for your attention





Glossary

Attribution

The acknowledgement that something came from another source. The following sentence properly attributes an idea to its original author:

Jack Bauer, in his article "Twenty-Four Reasons not to Plagiarize," maintains that cases of plagiarists being expelled by academic institutions have risen dramatically in recent years due to an increasing awareness on the part of educators.

Bibliography

A list of sources used in preparing a work

Citation

- •A short, formal indication of the source of information or quoted material.
- •The act of quoting material or the material quoted.

Cite

- •to indicate a source of information or quoted material in a short, formal note.
- to quote
- •to ascribe something to a source.



Glossary

Common Knowledge

Information that is readily available from a number of sources or so well-known that its sources do not have to be cited.

The fact that carrots are a source of Vitamin A is common knowledge, and you could include this information in your work without attributing it to a source. However, any information regarding the effects of Vitamin A on the human body are likely to be the products of original research and would have to be cited.

Copyright

A law protecting the intellectual property of individuals, giving them exclusive rights over the distribution and reproduction of that material.

Endnotes

Notes at the end of a paper acknowledging sources and providing additional references or information.

Facts

Knowledge or information based on real, observable occurrences.

Just because something is a fact does not mean it is not the result of original thought, analysis, or research. Facts can be considered intellectual property as well. If you discover a fact that is not widely known nor readily found in several other places, you should cite the source.



Glossary

Fair Use

The guidelines for deciding whether the use of a source is permissible or constitutes a copyright infringement.

Footnotes

Notes at the bottom of a paper acknowledging sources or providing additional references or information.

Intellectual Property

A product of the intellect, such as an expressed idea or concept, that has commercial value.

Original

- •Not derived from anything else, new and unique
- Markedly departing from previous practice
- •The first, preceding all others in time
- •The source from which copies are made



Glossary

Paraphrase

A restatement of a text or passage in other words.

It is extremely important to note that changing a few words from an original source does NOT qualify as paraphrasing. A paraphrase must make significant changes in the style and voice of the original while retaining the essential ideas. If you change the ideas, then you are not paraphrasing -- you are misrepresenting the ideas of the original, which could lead to serious trouble.

Plagiarism

The reproduction or appropriation of someone else's work without proper attribution; passing off as one's own the work of someone else

Public Domain

The absence of copyright protection; belonging to the public so that anyone may copy or borrow from it.

Quotation

Using words from another source.

Self-plagiarism

Copying material you have previously produced and passing it off as a new production. This can potentially violate copyright protection if the work has been published and is banned by most academic policies.