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OVERVIEW

1. Introduce a simple text analysis tool to analyze your writing style.
2. Use Google advanced search functions and Google Scholar to correct grammar in research papers
3. Use Adobe Acrobat Free Reader advanced search functions to check specialized grammar and vocabulary in your field
4. Introduce other software and a new way of thinking about research language

PART 1 Text analysis

The magic number 22 (more or less)

<http://www.usingenglish.com/resources/text-statistics.php>

Average number of words per sentence is an excellent indicator of writing skill. It is an indirect measure of how you combine clauses.

- Your target for research writing in introduction or discussion sections should be around 22 words.
- Methods may have shorter sentences.
- Only compare similar sections of similar documents.

How many types of basic sentence structures are there in English 5? 7?

Learning the following patterns is useful grammar, but it doesn't fully represent how we build sentences and ideas with clauses in English.

1. He lived in Seoul happily. (S + V)
2. You are a serious person. (S + V + S.C)
3. He has a new hat. (S + V + DO)
4. I envy him his patience. (S + V + I.O + D.O)
5. I believe him (to be) a great scholar. (S + V + O + O.C)

(Source: Naver.com)

The four main types of sentences in English that state information (not including questions ?, imperatives !, etc.)

- 1. Simple: (단문)**
Main Clause Subject + Verb
- 2. Compound: (중문)**
Main Clause 1) ... , and ... Main Clause
2) ... ; however, ...
3) ... ; (semi-colon) ...
- 3. Complex: (복문)**
Subordinate Clause + (comma,) Main Clause OR Main Clause (No comma) + Subordinate Clause
- 4. Compound-complex: (혼합문)**
Main Clause + Main Clause (No comma) + Subordinate Clause

Note that many combinations of clauses are possible with compound-complex sentences.

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English Language Resources

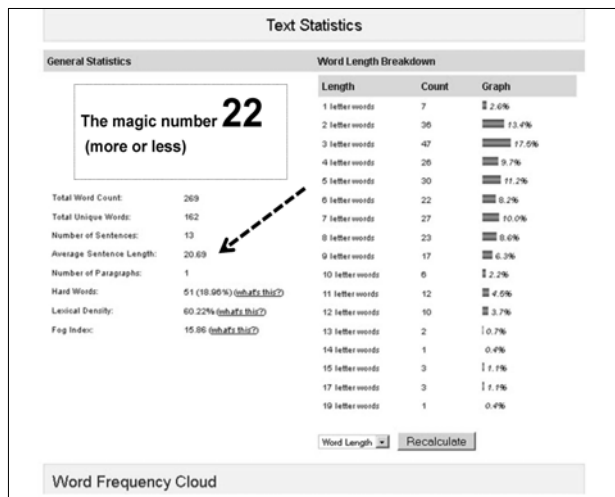
English language resources for English learners and teachers to help you study, learn and teach English including text analysis, language tips, exam tips and help with study skills.

Language Analysis Tools
[Text Statistics - Analyse A Text](http://www.usingenglish.com/resources/text-statistics.php)
Online text analysis tool which give you statistics about a text including word count, unique words, number of sentences, average words per sentence, lexical density, and the Gunning Fog readability

Links
[ESL Links Archive](#)
Our links archive contains hundreds of English language resources for ESL students and teachers alike. Divided into categories, you can take a look at some of the best language sites available.

THE NEW SCHOOL
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<http://www.usingenglish.com/resources/text-statistics.php>



PART 2

**Internet Grammar Search:
Exact Phrase Google Search**

Advanced google searching

Please save this URL on your bookmarks in your browser:

http://www.google.com/advanced_search

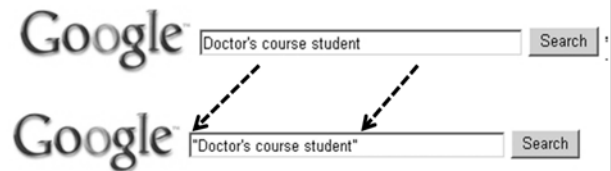
Google Search

Skill 1: Understand the difference between a “keyword” and an “exact phrase” search using a basic Google search

1. Open www.google.com or co.kr
2. What search strategy would you use to find out if this sentence is correct?

“She is a doctor's course student”

Compare the difference between these two searches without and with quotation marks “...” in the search box:



* Note that quotation mark searches will include words like “the, a, to” and other words that are normally not included in basic keyword searches.

Skill 2: Evaluate the context of the search results

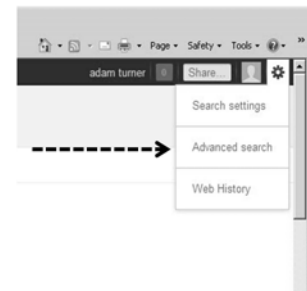
TASK 1: is this sentence correct?

She is a doctor's course student.

Skill 3. Advanced Search

Bookmark this URL on your browser toolbar:
http://www.google.com/advanced_search

OR do any search to make the advanced settings appear



SEARCH “Doctor’s course student” again by selecting .edu as the domain

Then narrow your results by...

language:	English	←-----
region:	United States	←-----
last update:	anytime	
site or domain:	.edu	←-----
terms appearing:	anywhere in the page	

Search “.edu”

Notice that we can select websites with .edu and only search the text.

Skill 4: Domain specific searching

.ca .uk .edu .ac.kr etc.

Also applies to journal sites!

Journal of Clinical Neurology
<http://www.thejcn.com/>

<http://www.nejm.org>

<http://www.thelancet.com>

<http://synapse.koreamed.org/>

Advanced Search

Find pages with...

all these words:

symptoms

this exact word or phrase:

mild cognitive impairment

any of these words:

none of these words:

numbers ranging from:

Then narrow your results by...

language:

any language

region:

any region

last update:

anytime

site or domain:

<http://www.thejcn.com/>

terms appearing:

in the text of the page

SafeSearch:

Show most relevant results

reading level:

no reading level displayed

file type:

Adobe Acrobat PDF (.pdf)

usage rights:

not filtered by license

PDF (711.15 KB) - JCN :: Journal of Clinical Neurology
www.thejcn.com/Synapse/Data/PDFData/0145JCNjcn-10-203.pdf
 by HY Shin - 2014
 aggression, and other behavioral symptoms during the night. Furthermore, sleep ...
 cluded 42 subjects with mild cognitive impairment (MCI) and 12 normal ...

PDF (337.6 KB) - KoreaMed Synapse
www.thejcn.com/Synapse/Data/PDFData/0145JCNjcn-5-133.pdf
 by JW Kim - 2009 - Cited by 21 - Related articles
 Key Words: Parkinson's disease, mild cognitive impairment, Parkinson's disease
 dementia. ... of the subjective symptoms that correspond to memory im-

Current Challenges for the Early Detection of Alzheimer's ...
www.thejcn.com/Synapse/Data/PDFData/0145JCNjcn-5-153.pdf
 2009 - Cited by 40 - Related articles
 possible for early-onset familial AD; patients with Mild Cognitive Impairment (MCI),
 often a ... agnosia, together with general cognitive symptoms, such as.

Relationships between 24-Hour Blood Pressures ...
www.thejcn.com/Synapse/Data/PDFData/0145JCNjcn-5-139.pdf
 2009 - Cited by 6 - Related articles
 tia is the successor to vascular mild cognitive impairment (MCI). 2. After age ...
 revealed by MRI and the clinical vascular symptoms or signs facilitate the ...

PDF (458.3 KB) - KoreaMed Synapse
www.thejcn.com/Synapse/Data/PDFData/0145JCNjcn-6-159.pdf
 by JE Ahlskog - 2010 - Related articles
 Jul 13, 2010 - Mild cognitive impairment is already apparent in 19-29% of ear- ...
 Autonomic problems may precede the motor symptoms of PD, 13, 14 but are ...

PART 3

Internet Grammar Search: Advanced Google Scholar Search

Skill 1. Use Advanced Google Scholar search to fix research grammar problems

TASK 2: Is this sentence correct?

“Several researchers have been examined the role of”

Open: <http://scholar.google.com>

Google
scholar

☒ Articles ☒ include patents ☐ Legal documents

Advanced Scholar Search

Stand on the shoulders of giants

Find articles

with all of the words

with the exact phrase

with at least one of the words

without the words

where my words occur

anywhere in the article

Return articles authored by

e.g., "PJ Hayes" or McCarthy

Return articles published in

e.g., J Biol Chem or Nature

Return articles dated between

e.g., 1996

Search

Skill 2. Use mixed "keyword" and "exact phrase" searches in Google Scholar to search for more specific fixed expressions in your field



Find articles

with all of the words

with the exact phrase

with at least one of the words

without the words

where my words occur

anywhere in the article

Return articles authored by

e.g., "PJ Hayes" or McCarthy

Return articles published in

e.g., J Biol Chem or Nature

Return articles dated between

e.g., 1996

Search

Results of a mixed search

... a patient with advanced Hodgkin's lymphoma give rise to permanently growing

J Wolf, U Kapp, H Bohlen, M Kornacker, C Schoch, B ... - Blood, 1996 - Am Soc Hematology

... With Advanced Hodgkin's Lymphoma Give Rise to Permanently Growing Hodgkin-Reed ... A

novel Hodgkin's disease (HD) derived cell line, L1236, was established ...

Cited by 80 - Related Articles - Web Search - BL Direct

Differentiation of Clonal Lines of Teratocarcinoma Cells: Formation of Embryoid Bo

GR Martin, MJ Evans - Proceedings of the National Academy of Sciences, 1975 - National Acad Sci

... Kim, EJ Oh, SY Moon, SI Roh, CG Kim, and HS Yoon Establishment and Maintenance of

Human Embryonic Stem Cells on STO, a Permanently Growing Cell Line Biol Reprod ...

Cited by 122 - Related Articles - Web Search

Skill 3. Use the * (wildcard) to correct errors and identify grammar patterns and vocabulary in your field

EXAMPLE

Stress, social support, and anxiety played greater role than seizure-related variables in depression in patients with epilepsy.

*played greater role than * in *

Google scholar

Search

Search only in: ☒ Biology, Life Sciences, and Environmental Science ☒ Medicine, Pharmacology, and Veterinary Science ☐ Search in all subject areas.

Scholar

Articles excluding patents

anytime

include citations

OR

Did you mean: *play greater role than * in *

Your search - *played greater role than * in * - did not match any articles.

Grammar corrections and patterns

However, the pattern "play a greater role than" is very productive in medical writing.

- ... may play a greater role than inhibin in modulating ...
- ... could play a greater role than ATP in relaxing small coronary arteries
- ... suggests that estradiol may play a greater role than inhibin in modulating FSH production
- This may explain why HEB seems to play a greater role than E2A in determining the expression level of the CD4 gene

Skill 3.1. Use the * (wildcard) to identify grammar patterns and build vocabulary in your field

"a * increase in the rate of infection"

"a * increase in the rate of infection"

About 77 results (0.02 sec)

One year prospective study of 3280 surgical wounds

A Anvikar, A Deshmukh, R Karyakarte, A Damle... - Indian Journal of ... 1999 - Medknow
... percent. The increase in the pre-operative hospitalization was associated with a significant rise in the rate of wound infection. There was a significant increase in the rate of infection as the duration of surgery increased. The rate ...
Cited by 37 Related articles Import into EndNote Save More

[PDF] Is routine replacement of peripheral intravenous catheters necessary?

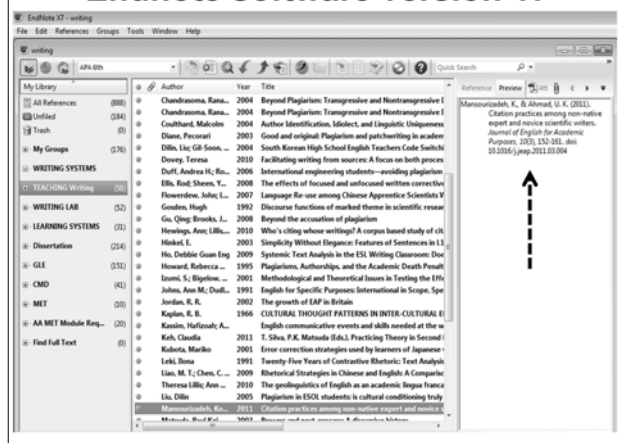
T Bregenzler, D Conen, P Sakmann... - Archives of internal ... 1998 - Am Med Assoc
... every 48 to 72 hours "because of a sharp increase in the rate of infection after this length of time." Even in the updated guidelines in 1996 the CDC recommends rotating catheter sites at 48- to 72-hour intervals. However ...
Cited by 187 Related articles All 10 versions Import into EndNote Save More

Customize your search using "my library" in Scholar (requires gmail account)

- Articles
- Case law
- My library
- Manage labels...
- Any time
- Since 2014
- Since 2013
- Since 2010
- Custom range...
- Understanding the role of the gas in the voids during corona charging of cells: a way to enhance their piezoelectricity
M Paajanen, M Wegener, B Gerhard-Mulhaupt - Journal of Physics D: Applied ... 2001
Abstract The influence of the corona-charging process on the piezoelectric transducer coefficient d33 of a cellular electret film has been investigated. An increased corona voltage can be considered as a way to enhance the charge density and thus also the resulting ...
Cited by 116 Related articles All 4 versions Cite
- Deposition of high quality TiN films by excimer laser ablation in reactive gas
N Mihailovic, N Chikla, LC Netter, M Digoscu - Journal of applied physics, 1993
A new laser method is proposed for the deposition of high purity, hard fcc TiN layers of unlimited thickness. The film thickness can be very finely controlled mainly through the intermediary of the number of applied laser pulses as the deposition rate is of only 0.02- ...
Cited by 56 Related articles All 5 versions Cite
- Oxygen-Atom Vacancies Imaged by a Noncontact Atomic Force Microscope
A Sasahara, S Kitamura, H Uetsuka, H Onishi - The Journal of Physical Chemistry B, 2004
The topography of the rutile TiO2 (110) surface was observed with a noncontact atomic force microscope (NC-AFM) in an atmospheric pressure of N2. Oxygen-atom rows arrayed with an interval of 0.65 nm and individual oxygen-atom vacancies in the rows were resolved in ...
Cited by 20 Related articles All 3 versions Cite

PART 4 Managing references mendeley.com

Endnote software version 17





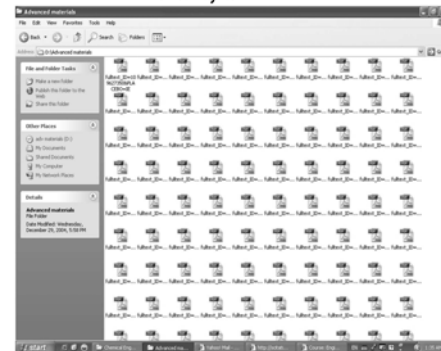
PART 5

Adobe Acrobat Reader Advanced Search Functions

Using Adobe Reader 11.0 Advanced Search Functions

- The free version of Adobe reader has advanced search functions that can greatly help you to improve your specialized writing. I will demonstrate the method and then you can practice the technique. Adobe 11.0 is the new version.
- The free reader is available from www.adobe.com

Skill 1. Collect PDF files from journals in your field in one folder on a hardrive, USB, or CD



Skill 2. Search useful phrases or fixed expressions in your field

Skill 2. Procedure

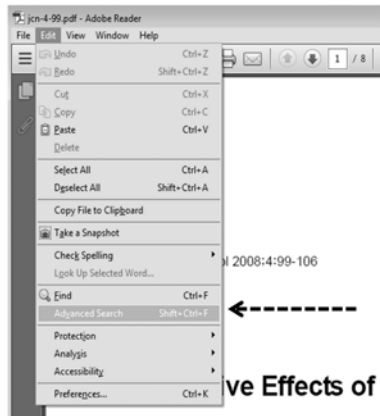
"To" is often used in the beginning of a sentence to show the purpose of a research technique or method. Here is an engineering example:

"To minimize overt population stratification, all subjects were from the same hospital clinic."

Source: N Engl J Med 2003;348:1442-8.



Pull down and select the EDIT menu



ve Effects of

Search Method Using Adobe Reader Advanced Search

TASK 1

- Follow me as I search for the useful structure beginning with "To ..." at the beginning of the sentence.
- After watching me first, try this search yourself. This is a common grammar structure in all research fields.

To review the method,
please watch this video.

<http://www.screenr.com/koW8>

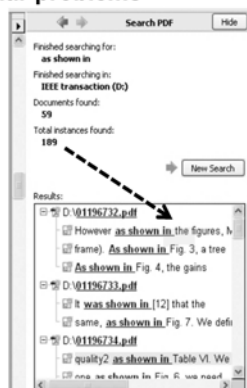
- Select the correct folder/USB on your computer.
- Choose [Match Exact word or phrase (단어 또는 구와 정확히 일치)]
- Click on [Case-Sensitive (대/소문자 구분)] if you want different results for "To" or "to".
- Click on [Whole words only] if you want "To" and not "together, total," etc.
- Click [Search (검색)].



Skill 3. Use the advanced search functions of Adobe Acrobat Reader to correct grammar problems

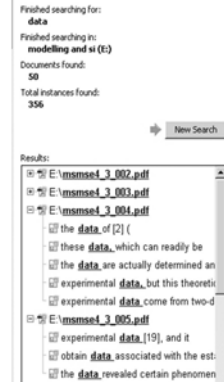
Try different word searches to fill in the blank. For example,

- as shown ____ Figure 1
- Don't forget to always use "match exact phrase" search, not the keyword search.



Skill 4. Use the advanced search functions of Adobe Acrobat Reader to find out how words are used in your field

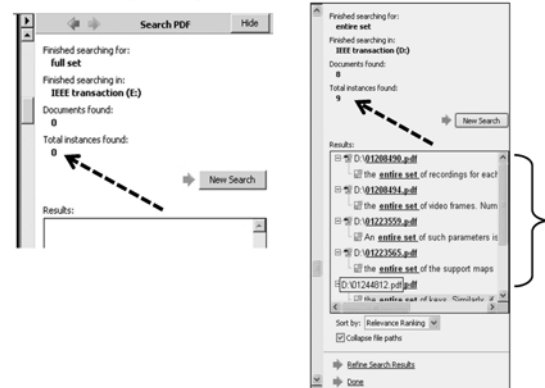
- How is the word "data" used in sentences?



Skill 6. Analyze and study grammar patterns in your field by searching keywords

Adjective	Verb		Property		Condition
significant	increase	in the	level	of	
slight	decrease		number		Obesity/dementia/mortality
negligible			risk		
25 percent			chance		
no			rate		
little			amount		
marked			variety		
moderate					

Skill 5. Analyze and study which words go together in your field



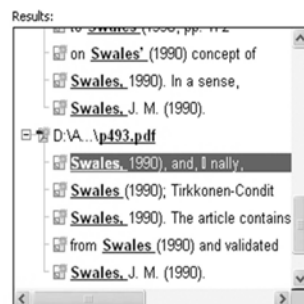
Skill 6. Analyze and study grammar patterns in your field by searching keywords

Adjective	Verb		Property		Condition
significant	increase	in the	level	of	
slight	decrease		number		Obesity/dementia/mortality
negligible			risk		
25 percent			chance		
no			rate		
little			amount		
marked			variety		
moderate					



Skill 7. Improve literature reviews and introduction sections of papers by quickly getting an overview of key terms, concepts, materials, or theories in your field

- You can find **the exact sentence** (not only a bibliography or a title search of a Journal or citation index) citing an author or theory from every research paper PDF on your CD or USB



Skill 8. Check to make sure that graduate students are using references properly

Ask them to include all the PDF article files they have used in their references so you can easily see how they are using sentences from other papers.

Unlike google scholar, you can see the full text and context. Unlike <http://www.ithenticate.com/> it is free. Almost all graduate students misuse references rather than copy without a reference.

Limitations: Adobe and Internet Search

1. It doesn't show you your grammar mistakes. It is for checking and editing sentences that you want to check.
2. Just because a search produces no results, it doesn't always mean there is a mistake. These techniques are based on probability. Sample size is important here. I recommend 150 PDFs per USB or folder.
3. You must always evaluate your webpage hits when using Google search. You could be getting your examples from others making the same mistakes!
4. Make sure you are searching only the key words that are the target of your search and not long phrases. NOT "As shown in Fig. 7," BUT -> "shown in Fig."

Thank you very much.

Please email me any questions or suggestions
when trying these techniques:
adamturner7@gmail.com

Materials on research writing

www.hanyangowl.org

www.adamturner.net

Free Biomedical writing in English PDF book:

<http://www.hanyangowl.org/media/biomedical/handbookbiomedicalwriting.pdf>