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2002-2011 University College Dublin, Ireland

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gareth-dyke-58a42645/





# What will we talk about today?

- √The structure of an effective English abstract
  - √ Abstract writing tips & tricks









# The structure of an effective English abstract



"Mobilised the English language and sent it into battle" (John F Kennedy)



Winston Churchill: British PM





# History and development: Journal article abstracts





On the Tendeney of Species to form Varieties; and on the Perpetuation of Varieties and Species by Natural Means of Selection. By Charles Darwin, Eq., F.R.S., F.L.S., & F.G.S., and Alfrene Wallace, Esq. Communicated by Sir Charles Lyrke, F.R.S., F.L.S., and J. D. Hooker, Esq., M. D. V.P.S. S. F. E. S. M.D., V.P.R.S., F.L.S., &c.

[Read July 1st, 1858.]

MY DEAR SIR,—The accompanying papers, which we have the honour of communicating to the Linnean Society, and which all relate to the same subject, viz. the Laws which affect the Pro-duction of Varieties, Races, and Species, contain the results of the investigations of two indefatigable naturalists, Mr. Charles Darwin coal Mr. Michael M. White. and Mr. Alfred Wallace.

Earthworms: Charles Darwin's 'Unheralded Soldiers of Mankind': Protective & Productive for Man & Environment

Rajiy K. Sinha, Krunal Chauhan, Dalsukh Valani, Vinod Chandran, Brijal Kiran Soni, Vishal Patel

Received April 15th, 2010; revised May 20th, 2010; accepted May 22th, 2010.

#### ABSTRACT

ABSTRACT
Earthworms promises to provide cheaper solutions to several social, economic and environmental problems playing
the human society. Earthworms can safety manage all municipal and industrial organic wastes including sewage sludge
and divert them from ending up in the landfills. There booky work as a 'bidlive' and they can "purify' and also 'dissifice' and 'detoxify' municipal and several industrial vastewater. They reduce the BOD & COD loads and the TDSS of
wastewater singlicinstly. They can even remove the EDS collocation distinguistic plane (and the TDSS of
weathered contaminate including heavy nearly and experiments plants. Earthworms can bio-accumulate and bio-transform many
chemical contaminate including heavy neutral and experiment pollutants in soil and cleaves pite to estimatistic dands for
micrast with beneficial soil microbes) & boost "cop productivity". They have potential to replace the environmental
distructive chemical fertilleers from fams production. The protein rich "environmental so lenguage to reproduction of 'mutritive feed materials' for fishery, dairy & poultry industries. They are also being used to 'raw materials' for
production of 'mutritive feed materials' for fishery, dairy & poultry industries. They are also being used of production of 'mutritive feed materials' for fishery, dairy & poultry industries. They have drawn of the production of the saving medicines' for cardiovascular diseases and cancer cure.



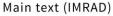


#### The general structure of a full article

#### **PREPARATIONS**

- Title
- Authors D
- D Abstract
- Keywords

Make them easy for indexing and searching! (informative, attractive, effective)



- Introduction
- Methods
- Results
- D
- Discussion (Conclusions)
- Each has a distinct function.



- References
- Supplementary materials





# STRUCTURE: THE MOST CRUCIAL ELEMENT

Readers need to know throughout a paper ....

- Where they have come from
- ↓ Where they are now

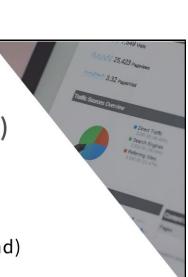
(A plot is needed: A paper is a story)



#### A good quality abstract is:

- ▶ Honest and precise
- ▶ Can stand alone (search engines, sometimes all people read)
- ▶ No technical jargon
- ▶ Short and specific
- ▶ Cites no references

The quality of an abstract will inform the editor's decision



# Why is this important?

The abstract: 摘要

# MANY JOURNALS NOW BASE THEIR DECISION ON THE ABSTRACT ALONE 很多期刊会直接根据摘要来决定稿件去留

Sadly, many authors write the abstract in a great rush, almost as an afterthought.

It should be a concise "standalone" piece with a very clear message.

It must accurately reflect the full text of the paper.

Why did you do the report? What did you do? What did you find? What did you conclude?

然而, 很遗憾, 很多作者对待摘要, 却总是在最后匆匆写就。 摘要应该能够单独存在且卖点清晰, 必须准确无误地总结全文。 为什么做这项研究、怎么做的、发现了什么、你得出什么结论?



# A STRUCTURED ABSTRACT: IT CAN HELP ORGANISE YOUR IDEAS TRY IT!

Background Abstract	Glossina fuscipes fuscipes is the major vector of human African trypanosomiasis, commonly referred to as sleeping sickness, in Uganda. In western and eastern Africa the disease has distinct clinical manifestations and is caused by two different parasites: Trypanosoma brucei rhodesiense and T. b. gambiense. Uganda is exceptional in that it harbors both parasites, which are separated by a narrow 160-km belt. This separation is puzzling considering there are no restrictions on the movement of people and animals across this region.
Methodology/Principal Findings Abstract	We investigated whether genetic heterogeneity of G.f. fuscipes vector populations can provide an explanation for this disjunct distribution of the Trypanosoma parasites. Therefore, we examined genetic structuring of G.f. fuscipes populations across Uganda using newly developed microsatellie markers, as well as mtDNA. Our data show that G.f. fuscipes populations are highly structured, with two clearly defined clusters that are separated by Lake Kyoga, located in central Uganda. Interestingly, we did not find a correlation between genetic heterogeneity and the type of Trypanosoma parasite transmitted.
Conclusions/Significance Abstract	This lack of a correlation between genetic structuring of $G$ . $f$ . fuscipes populations and the distribution of $T$ . $b$ . gambiense and $T$ . $b$ . rhodesiense indicates that it is unlikely that genetic heterogeneity of $G$ . $f$ . fuscipes populations explains the disjunct distribution of the parasites. These results have important epidemiological implications, suggesting that a fusion of the two disease distributions is unlikely to be prevented by an incompatibility between vector populations and parasite.

#### What about a Science & Technology Abstract?

Object

Method

Result

Conclusion

Starting to write: Tricks for success and accessibility

- Checking the original nature of the results/the story/the take-home message 反复思考研究结果的属性/故事怎么讲/主 要结论是什么
- Is this new and interesting? Why?
  创新吗?有意义吗?为什么?
- How does your work relate to a currently hot topic?

与你的学科内最近热议的话题有什么关联?

#### **Abstract**

In this article, I examine how nudging powered by Big Data relates to both negative and positive liberty. I focus in particular on how liberty is affected by appeals to irrational mechanisms. I conclude that it is problematic to use liberty as an argument for nudging. Such an argument would have to be based on the concept of positive liberty, empowerment and emancipation from irrationality, but I argue that even stronger arguments against nudging can be built on the same conception of liberty. I consider Big Data-powered nudging to have the potential to be both manipulative and coercive, and believe that we should be wary of the effects such efforts have on liberty. As I consider *liberty* to be part of what makes a good society, this becomes an effort to analyse one aspect of the effects of technology on society in general. While I do not accept arguments in favour of nudging based on liberty, it is easier to see that arguments based on utility could support nudging. I do not evaluate what the proper trade-off is between utility and liberty in this article, and it is obvious that, at times, utility trumps an absolute demand for liberty. However, I argue in favour of transparent traditional regulation and rational persuasion instead of nudging, when these approaches can serve the same purposes. Should we choose to nudge, we should not euphemise our efforts by claiming that we do so on behalf of freedom.

#### **Abstract**

Blockchain technology was created as a response to the trust crisis that swept the world in the wake of the 2008 financial crisis. Bitcoin and other blockchain-based systems were presented as a "trustless" alternative to existing financial institutions and even governments. Yet, while the trustless nature of blockchain technology has been heavily questioned, little research has been done as to what blockchain technologies actually bring to the table in place of trust. This article draws from the extensive academic discussion on the concepts of "trust" and "confidence" to argue that blockchain technology is not a 'trustless technology' but rather a 'confidence machine'. First, the article provides a review of the multifaceted conceptualisations of trust and confidence, and the relationship between these two concepts. Second, the claim is made that blockchain technology relies on cryptographic rules, mathematics, and game-theoretical incentives in order to increase confidence in the operations of a computational system. Yet, such an increase in confidence ultimately relies on the proper operation and governance of the underlying blockchain-based network, which requires trusting a variety of actors. Third, the article turns to legal, constitutional and polycentric governance theory to explore the governance challenges of blockchain-based systems, in light of the tension between procedural confidence and trust.

#### **Abstract**

Artificial intelligence (AI) has proven to be superior to human decision-making in certain areas. This is particularly the case whenever there is a need for advanced strategic reasoning and analysis of vast amounts of data in order to solve complex problems. Few human activities fit this description better than politics. In politics we deal with some of the most complex issues humans face, short-term and longterm consequences have to be balanced, and we make decisions knowing that we do not fully understand their consequences. I examine an extreme case of the application of AI in the domain of government, and use this case to examine a subset of the potential harms associated with algorithmic governance. I focus on five objections based on political theoretical considerations and the potential political harms of an AI technocracy. These are objections based on the ideas of 'political man' and participation as a prerequisite for legitimacy, the non-morality of machines and the value of transparency and accountability. I conclude that these objections do not successfully derail AI technocracy, if we make sure that mechanisms for control and backup are in place, and if we design a system in which humans have control over the direction and fundamental goals of society. Such a technocracy, if the AI capabilities of policy formation here assumed becomes reality, may, in theory, provide us with better means of participation, legitimacy, and more efficient government.

# ABSTRACT: EXAMPLE 1

The aim of this study is to evaluate genetic variability in the Turkish Arab horse population using pedigree information. This work is possible because the first detailed pedigree analysis of this breed was carried out in Turkey, and information can be extracted from The National Studbook. Thus, pedigree data for 23,668 horses born between 1904 and 2014 were compared with a reference population of 14,838 animals from the most recent generation. A number of demographic parameters for the horse

#### Template:

First one or two sentences state the aim of the study/state of the art

"The aim of this study is to ...."

"In this study, we ..."

# ABSTRACT: EXAMPLE 1

from the most recent generation. A number of demographic parameters for the horse

population were assessed using the software ENDOG v4.8: inbreeding level (F),

average relatedness (AR), effective population size (N<sub>a</sub>), effective number of founders

(I<sub>a</sub>), effective number of ancestors (I<sub>a</sub>), and number of founder genome equivalents (I<sub>a</sub>).

The average generation interval (GI) for the total (TP) and reference populations (RP)

was 12.3±4.8 years and 12.2±4.6 years respectively, while calculated pedigree

completeness levels (PCL) were 98.2%, 96.6%, and 95.0% for the first, second, and

third known generations. Mean equivalent generations (I), average complete

generations and mean maximum generations for the RP were 7.8, 5.4, and 12.2,

respectively, while mean F was 4.1% and 4.6%, and AR was 8.8% and 9.5% for the

TP and RP, respectively. The rate of inbred animals (RIA) were 89.0% and 94.2% for

the TP and RP, while the number of founders, the number of ancestors, and the I<sub>a</sub>, I<sub>a</sub>.

#### Template:

Second sentences state the "methods used" and "the results"

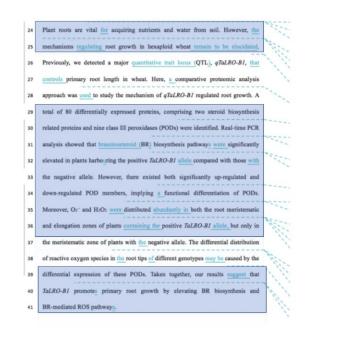
# ABSTRACT: EXAMPLE 1

```
101 (N<sub>ec</sub>) is 74.4±3.9 and 73.5±0.58 animals; during the last 50 years of breeding, there
102 were increases in both the average F (<u>ca.</u> 2% to 5%) and AR (<u>ca.</u> 4% to 9%). <u>Overall, these results corroborate a clear reduction in the genetic variability in Turkish Arab
104 horses.</u>
```

#### Template:

Final sentence(s) state the conclusion of the work Try to see if other Abstracts follow this template?

# ABSTRACT: EXAMPLE 2



 $\sqrt{p}$ 

Grab the reader:

draw them immediately to the crucial issue that your paper addresses

# My favourite paper of all time

# Wildlife Road Kills In A Diverse Terrain In Southeastern Brazil: A Spatial and Temporal Analysis Towards Mitigation

'A Spatial and Temporal Analysis Aimed at Generating Strategies for Mitigation'?

'A Spatial and Temporal Analysis Aimed at Generating Mitigation Strategies for Wildlife Road Kills in a Diverse Terrain in Southeastern Brazil'?

Please also note that 'Spatiotemporal' is the usual form in English scientific writing

Wildlife road kills lead to species population declines and threaten biodiversity. As millions of road fatalities occurs daily, it is important to test the hypothesis that terrain and species abundance can explain road kills volume to guide mitigation measures implementation. We investigated spatial and temporal factors that characterize road kills in an interstate highway that crosses a diverse region of southeastern Brazil. The highway crosses both Cerrado and Atlantic Forest biomes, as well as seasonal forest, farms, and urban areas encompassing heterogeneous topography and including a range of road features. We recorded the coordinates, highway, and roadside attributes of each carcass as spatial determinants, and evaluated death seasonality via analysis of variance. We performed multiple logistic regression models for road kills in general and mobility groups to investigate the relationship between road-kills, landscape, and road attributes. We utilized chi-square tests for multiple category variables with casualties and road scanning on rows and categories on columns, and a Ripley Kstatistic simulation to determine spatial aggregations. We recorded 615 road kills mostly comprising birds (45.2%), mammals (21.1%), amphibians (11.1%) and reptiles (6.8%). Reptile deaths were most frequent during the rainy season, while stretches of straight road carried twice the road kill risk and vegetation increased risk 1.26 times. Animal deaths occurred frequently on straight/level and straight/downhill stretches, while bird, mammal, amphibians and snakes were dependent of grass and cerrado vegetation. The patch level for all carcasses was within a 0-45 km radius, data also suggest that because stretches of straight road encourage high speeds, the likelihood of animal collisions also increases, especially when vegetation is dense and driver visibility is restricted. Terrain and its attributes prove to correlate with road-kills. Mitigation strategies to reduce animal casualties and speed could include the clearing of roadside vegetation and radar installation on straight road stretches. However, the large number of animal carcasses we recovered also suggests that one unique solution is unfeasible; we recommend the use of fences coupled with under, or overpasses, on bisected road stretches and in level or irregular roadside areas where vegetation is dense to enable wildlife to cross the highway and to maintain connectivity.

#### Overview



- Purposes and uses of abstracts
- Types of abstracts
- Common errors
- The writing and the writing process
- Special considerations for presentations, meetings, posters, etc





# Purposes of an Abstract



- Provides an overview of the article (readers may read nothing else)
- Provides context for those who do read the article
- Used by journals to assign reviewers
- Used by abstracting and information services to index and retrieve articles
- Used by translation services for foreign readers





# Purposes of the Abstract



- Helps reader decide whether to read the article (i.e., is this important to me?)
- Provides reminders for readers after they've read the article
- Directs readers' attention to the highlights of the article



In general, the abstract reflects on the professionalism and integrity of the work.



## What Abstracts Are NOT



- Not substitutes for the article and should not be cited as references
- Not a summary of the entire article; should present main finding
- Do not contain enough information for a critical evaluation of the research
- Not fully peer-reviewed; up to 60% are never followed by a complete scientific article





# Types of Abstracts



- Descriptive abstracts
- Indicative abstracts (review articles)
- Informative abstracts (results papers)
  - Structured abstracts
- Presentation, meeting, poster abstracts





# **Descriptive Abstracts**



- Indicate the scope of the findings
- Contain little substantive information
- Emphasize the report itself, not its contents
  - Called "pap" abstracts

"A study was undertaken, the data were accumulated, and some interesting observations were made. Our conclusions are given."





## **Descriptive Abstracts**



#### Example:

This report describes a brief, 15-session couples group therapy format developed by a university-affiliated human sexuality clinic for the simultaneous treatment of marital and sexual dysfunctions. The major marital and sexual themes addressed in this group treatment design, an overview and description of the structure of the cognitive-behavioral approach, and a case illustration are presented.





## **Descriptive Abstracts**



#### Example:

Behavioral wellness has become a recent focus for the care of laboratory animals, farm and zoo animals, and pets. Behavioral enrichment issues for these groups are more similar than dissimilar, and each group can learn from the other. The emphasis on overall enhancement for laboratory dogs and cats in this review includes an emphasis on behavioral enrichment. Understanding the range of behaviors, behavioral choices, and cognitive stimulation that cats and dogs exhibit under non-laboratory conditions can increase the ability of investigators to predict which enrichments are likely to be the most successful in the laboratory. Many of the enrichment strategies described are surprisingly straightforward and inexpensive to implement.



ILAR J. 2005;46(2):202-215.



#### **Indicative Abstracts**



Abstracts of Review Articles

- State objective of review
- Give succinct summary of the data sources
- Specify criteria used to select studies
- Describe guidelines used for abstracting data and assessing data quality
- State main results of review and methods used to obtain these results
- State conclusions and potential applications of the results



Written after the paper has been written



#### **Indicative Abstracts**



#### Example:

**Objective**—To review the literature relating to the effectiveness of education strategies designed to change physician performance and health care outcomes.

Data Sources—We searched MEDLINE, ERIC, NTIS, the Research and Development Resource Base in Continuing Medical Education, and other relevant data sources from 1975 to 1994, using continuing medical education (CME) and related terms as keywords. We manually searched journals and the bibliographies of other review articles and called on the opinions of recognized experts.



cont.



#### **Indicative Abstracts**



**Study Selection**—We reviewed studies that met the following criteria: randomized controlled trials of education strategies or interventions that objectively assessed physician performance and/or health care outcomes. These intervention strategies included (alone and in combination) educational materials, formal CME activities, outreach visits such as academic detailing, opinion leaders, patient-mediated strategies, audit with feedback, and reminders. Studies were selected only if more than 50% of the subjects were either practicing physicians or medical residents.

**Data Extraction**—We extracted the specialty of the physicians targeted by the interventions and the clinical domain and setting of the trial. We also determined the details of the educational intervention, the extent to which needs or barriers to change had been ascertained prior to the intervention, and the main outcome measure(s).





cont.

#### Informative Abstracts



#### **Abstracts of Results Papers**

- State briefly the content of the paper
- Follow the sequence of the article
  - Intro, Method, Results, Discussion
  - Also possibly Background, Conclusions, Implications
- Include the species or population, study design or experimental approach, and independent and dependent variables
- Represent each section of the paper by at least one sentence in the abstract



Written after the paper has been written





#### **Common Errors**

- Inconsistency between text and abstract (~50%)
- Reporting data not present in the paper (~30%)
- Both (15%)





## Informative Abstracts



How to Fix Most Common Errors

**Double check** every single piece of data in the abstract against the data in the body of the article!







#### Other Errors

- No question or question stated vaguely
- Implication stated instead of answer
- Too long
- Too much detail





## Informative Abstracts



#### Research Paper

- ■Study design
- ■Experimental subjects
- ■Methods
- ■Results
- ■Interpretation

#### Case Report

- Patient
- Unusual features of the case







#### Example:

A In patients with heart disease, left ventricular diastolic performance is evaluated clinically by inserting a Swan-Ganz catheter to measure pulmonary capillary wedge pressure as an estimate of left atrial pressure. B1 To determine whether pulmonary venous flow and mitral inflow assessed less invasively, by transesophageal pulsed Doppler echocardiography, accurately estimate mean left atrial pressure, B2 we prospectively studied 27 consecutive patients undergoing cardiovascular surgery. We correlated Doppler variables of pulmonary venous flow and mitral inflow with simultaneously measured mean left atrial pressure and changes in pressure assessed by left atrial or pulmonary artery catheters.



Cont.



#### Informative Abstracts



We found that the most strongly correlated pulmonary venous flow variable, the systolic fraction of pulmonary venous flow, correlated more strongly with mean left atrial pressure (r = -0.86) than did the most strongly correlated mitral inflow variable, the ratio of peak early diastolic to peak late diastolic mitral flow velocity (r = -0.75). <sup>E</sup> Similarly, changes in the systolic fraction of pulmonary venous flow correlated more strongly with changes in mean left atrial pressures (r = -0.79) than did changes in the ratio of peak early diastolic to peak late diastolic mitral inflow velocity (r = 0.65). <sup>E</sup> We conclude that pulmonary venous flow assessed by transesophageal pulsed Doppler echocardiography accurately estimates mean left atrial pressure. <sup>G</sup> We suggest that this technique may offer a relatively noninvasive means of estimating the mean left atrial pressure of patients with heart disease.







In view of the remarkable decrease of the relative heart weight (HW) and the relative blood volume in growing pigs, we investigated whether HW, cardiac output (CO), and stroke volume (SV) of modern growing pigs are proportional to BW, as predicted by allometric scaling laws: HW (or CO or SV) = a ● BWb, in which a and b are constants, and constant b is a multiple of 0.25 (quarter-power scaling law). Specifically, we tested the hypothesis that both HW and CO scale with BW to the power of 0.75 (HW or CO = a ●BW<sup>0.75</sup>) and SV scales with BW to the power of 1.00 (SV =  $a \bullet BW^{1.0}$ ). For this purpose, 2 groups of pigs (group 1, consisting of 157 pigs of 50 ± 1 kg; group 2, consisting of 45 pigs of 268 ± 18 kg) were surgically instrumented with a flow probe or a thermodilution dilution catheter, under open-chest anesthetized conditions to measure CO and SV, after which HW was determined. The 95% confidence intervals of powercoefficient b for HW were 0.74 to 0.80, encompassing the predicted value of 0.75, suggesting that HW increased proportionally with BW, as predicted by the allometric scaling laws. In contrast, the 95% confidence intervals of power-coefficient b for CO and SV as measured with flow probes were 0.40 to 0.56 and 0.39 to 0.61, respectively, and values obtained with the thermodilution technique were 0.34 to 0.53 and 0.40 to 0.62, respectively. Thus, the 95% confidence limits failed to encompass the predicted values of b for CO and SV of 0.75 and 1.0, respectively. In conclusion, although adult breeding sows display normal heart growth, cardiac performance appears to be disproportionately low for BW. This raises concern regarding the health status of adult breeding sows.



J Anim Sci 2011;89(2):376-382.



#### Informative Abstracts



Due to increased production of ethanol, abundance of distillers grains (DG) is increasing. Steers (n = 176) were assigned to 1 of 5 treatment groups: steam-flaked corn (SFC), 10% dry DG (DDG), 10% wet DG (WDG), 20% WDG, or 30% WDG. The objectives were to determine the effects of feeding greater amounts of WDG, or DDG on meat quality. Steaks, 2.54 cm, were cut from strip loins and identified for simulated retail display, Warner-Bratzler shear force analysis, palatability, and fatty acid composition. Steaks from cattle fed 10% WDG and 30% WDG had smaller (P <0.05) Warner-Bratzler shear force values than steaks from cattle fed 20% WDG. Trained sensory panelists found no differences (P >0.05) in overall tenderness and off-flavors. No differences were found in total SFA and MUFA composition among treatments; however, 20% and 30% WDG had a greater proportion of PUFA and n-6 fatty acids than 10% WDG. No differences were found during simulated retail display between various amounts of WDG. Further research needs to be conducted to evaluate methods that aid in increasing shelf life of steaks from cattle fed greater rates of WDG.



Problems?

J Anim Sci 2011;89(1):179-184.





- ■Also called "more informative" abstracts
- ■Purposes:
  - Help readers quickly judge the findings of a study
  - Guide authors into better summaries
  - Aid reviewers
  - Facilitate electronic searches (eg, MEDLINE)
- ■Include headings
- ■May use incomplete sentences
- ■Follow journal requirements



Written after the paper has been written



#### Structured Abstracts



#### Example:

**Background**—Dual-chamber (atrioventricular) and single-chamber (ventricular) pacing are alternative treatment approaches for sinus-node dysfunction that causes clinically significant bradycardia. However, it is unknown which type of pacing results in the better outcome.

Methods—We randomly assigned a total of 2010 patients with sinusnode dysfunction to dual-chamber pacing (1014 patients) or ventricular pacing (996 patients) and followed them for a median of 33.1 months. The primary end point was death from any cause or nonfatal stroke. Secondary end points included the composite of death, stroke, or hospitalization for heart failure; atrial fibrillation; heart-failure score; the pacemaker syndrome; and the quality of life.



cont.





Results—The incidence of the primary end point did not differ significantly between the dual-chamber group (21.5 percent) and the ventricular-paced group (23.0 percent, P=0.48). In patients assigned to dual-chamber pacing, the risk of atrial fibrillation was lower (hazard ratio, 0.79; 95 percent confidence interval, 0.66 to 0.94; P=0.008), and heart-failure scores were better (P<0.001). The differences in the rates of hospitalization for heart failure were not significant in unadjusted analyses but became marginally significant in adjusted analyses. Dual-chamber pacing resulted in a small but measurable increase in the quality of life, as compared with ventricular pacing.

**Conclusions**—In sinus-node dysfunction, dual-chamber pacing does not improve stroke-free survival, as compared with ventricular pacing. However, dual-chamber pacing reduces the risk of atrial fibrillation, reduces signs and symptoms of heart failure, and slightly improves the quality of life. Overall, dual-chamber pacing offers significant improvement as compared with ventricular pacing.





NEJM 2002;346:1854-1862.

#### Structured Abstracts



#### Example:

**Objective**—To identify predictors in medical schools that can be manipulated to affect the proportion of graduates entering generalist practice.

Design and Participants—Cross-sectional and retrospective studies of medical schools and practicing generalist physicians; surveys of MD-granting and DO-granting medical schools; site visits to nine schools with a high proportion of graduates becoming generalist physicians; surveys of national samples of MD and DO generalist physicians.



cont.





**Independent Variables**—Characteristics of medical schools, including structural characteristics, financing, mission, admissions policies, student demographics, curriculum, faculty, and the production of generalist physicians; information on personal characteristics, background, perceptions, and attitudes of practicing generalist physicians.

**Dependent Variable**—Estimated proportion of graduates of the classes 1989, 1990, and 1991 in family practice, general internal medicine, and general pediatrics.



cont.



#### Structured Abstracts



**Results**—Institutional mission, certain admissions policies, characteristics of entering students, and the presence of a primary care—oriented curriculum explained statistically significant variation in the number of physicians choosing generalist careers, even after the structural characteristics of public or private status, age of the school, and class size were controlled for statistically.

**Conclusions**—Public and institutional policies, where implemented, have had a positive effect on students' choice of generalist careers. The most influential factors under the control of the medical school are the criteria used for admitting students and the design of the curriculum, with particular emphasis on faculty role models. Personal social values was the individual characteristic that most strongly influenced graduates' career choice.







#### Example:

**Objective**—To determine clinical features and outcome in dogs and cats with obsessive-compulsive disorder (OCD).

**Design**—Retrospective study.

Animals—103 dogs and 23 cats.

**Procedures**—Records of patients with OCD were analyzed for clinical features, medication used, extent of behavior modification, and outcome.



JAVMA 2002;221(10):1445-1452.

cont.



#### Structured Abstracts



Results—Most dogs affected with OCD had been obtained from breeders. Male dogs significantly outnumbered females (2:1). Female cats outnumbered male cats by 2:1 in a small sample. Most affected dogs lived in households with 2 or more humans and other dogs or cats, and had some formal training. Client compliance with behavior modification was high. A combination of behavior modification and medication resulted in a large decrease in intensity and frequency of OCD in most animals. Clomipramine was significantly more efficacious for treatment in dogs than was amitriptyline. Only 1 dog and 1 cat were euthanatized because of OCD during the study.

Conclusions and Clinical Relevance—OCD in dogs does not appear to be associated with lack of training, lack of household stimulation, or social confinement. In cats, OCD may be associated with environmental and social stress. Obsessive-compulsive disorder appears at the time of social maturity and may have sporadic and heritable forms. With appropriate treatment (consistent behavior modification and treatment with clomipramine), frequency and intensity of clinical signs in most dogs and cats may decrease by > 50%. Success appears to depend on client understanding and compliance and the reasonable expectation that OCD cannot be cured, but can be well controlled.





## Presentation and Meeting Abstracts



- Must be comprehensive
- Must strictly follow format and content rules (the old "blue box") and must be neat
- Often contain more details of methods
- More likely to include implications
- May be published in conference proceedings
- Provides opportunity for feedback from others in the field



Written before the paper has been written



#### Poster Abstracts



- Include lots of illustrations, tables, and graphs
- Keep words to a minimum
- Consider as a billboard, not a summary

People decide whether to read your poster in the first three seconds!





## Poster Abstracts



Type size is important!

# 96 point

48 point 36 point 28 point

12 point

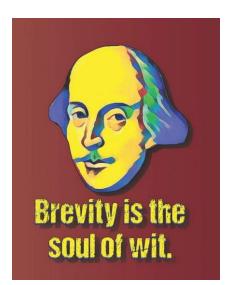






# English writing tips & tricks









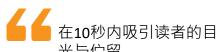
# English writing tips & tricks

Where is the distinctiveness? The evidence



Less than 10 seconds before your readers loose interest!

研究的特异之处为何?









# English writing tips & tricks

## Concise, to the point

- Short sentences
- No unnecessary words
- Familiar words
- Style
- Good punctuation





#### 简明扼要

- 短句
- 没有多余词语
- 使用常见词汇
- 倾风格
- 吐字清晰



# **English writing tips & tricks**

# **Effective English:** Tips & tricks

- No single style fits everyone; no writing training can fit to everyone But, a number of key skills can be learned
- Are you happy with the way you write?
- Good English is plain English: The Golden Rule
- Writers on business communication share similar views; plain English is at the heart of effective written communication

#### 聪明的文字运用: 秘诀与技巧

- 没有适合所有人的通用写作风格; 也没有哪一种写作培训能够满足 所有人的要求,但从中可以学到 许多关键技能。
- 您是否满意您的写作方法?
- 黄金原则:简明英语就是高水平 的英语
- 商务信函作者持相似观点;简明 英语是有效书面沟通的核心。



# **English writing tips & tricks**



#### Tips: American (AE) and British English (BE)

#### Common differences in spelling



AE
color
organization
traveling
recognize

BE colour n organisation travelling recognise

AE center dialog defence analyze

BE centre dialogue defense analyse



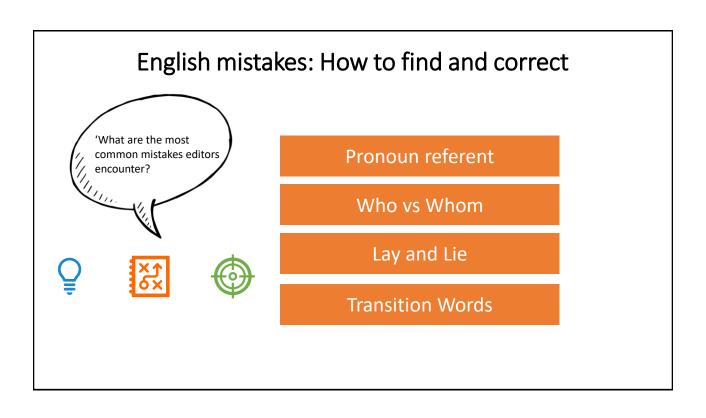
#### Tenses

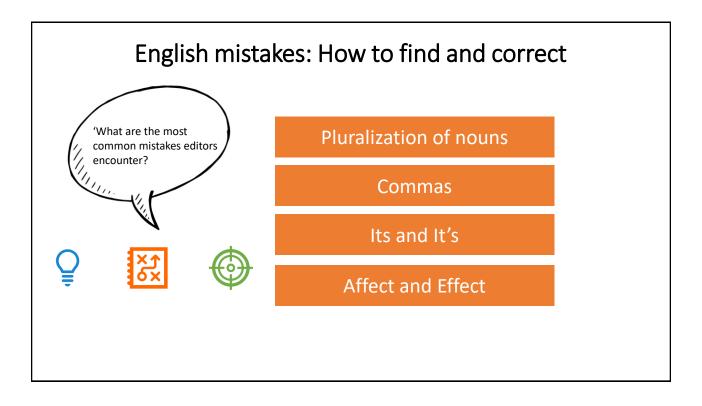


AE BE burned/was burned burnt/was burnt learned/has learned learnt/has learnt (see also: dream, kneel, lean, leap, spell, spill, spoil)

My personal favourite: gray (AE) and grey (BE)







# English mistakes: How to find and correct



#### Pronoun referent

Pronouns are used to substitute the name of a noun in the sentence to avoid repetition of the said noun.









(In this sentence, the pronoun "he" should be used instead of "she" as the sentence is referring to the noun "brother".)

# English mistakes: How to find and correct







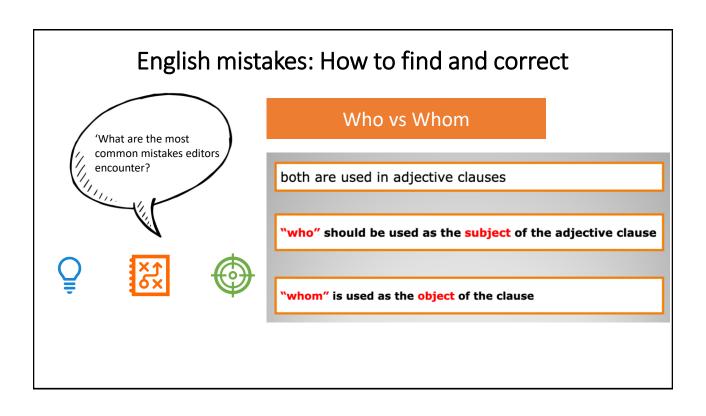


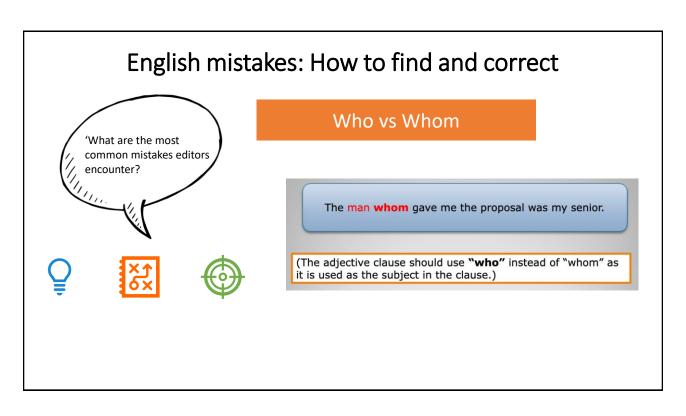
Pronoun referent

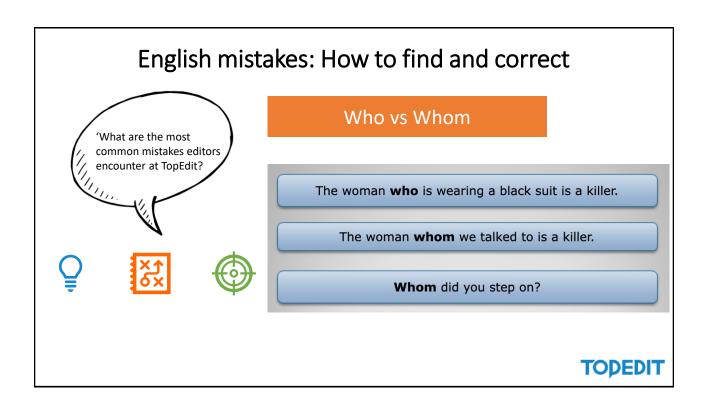
**James** was with **his** mother when the accident happened.

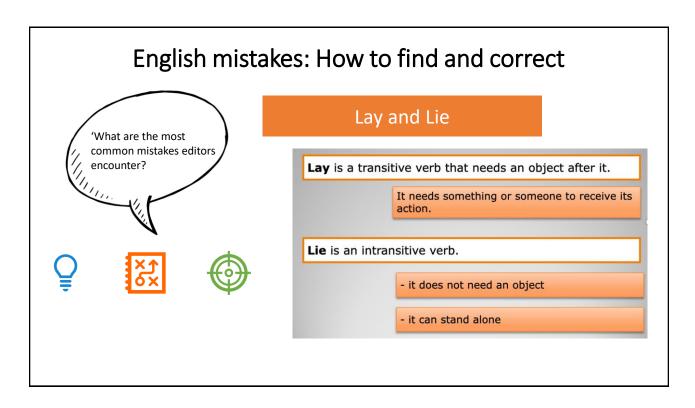
The woman was found bathing in her own blood.

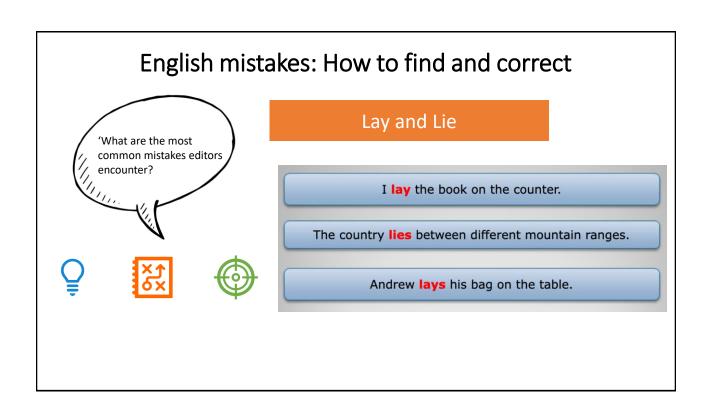
**Jenny** is wearing a beautiful diamond necklace, a gift from **her** husband James.

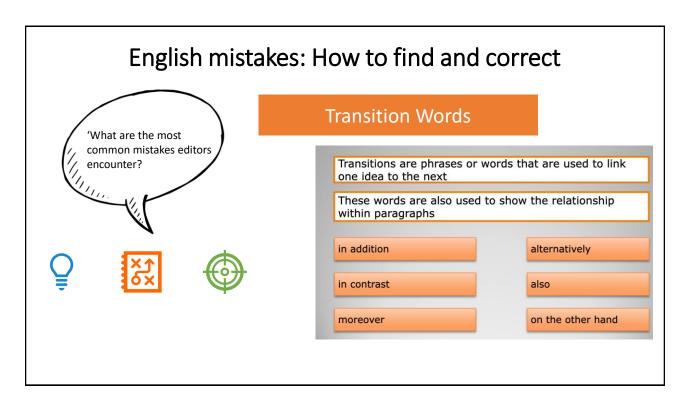




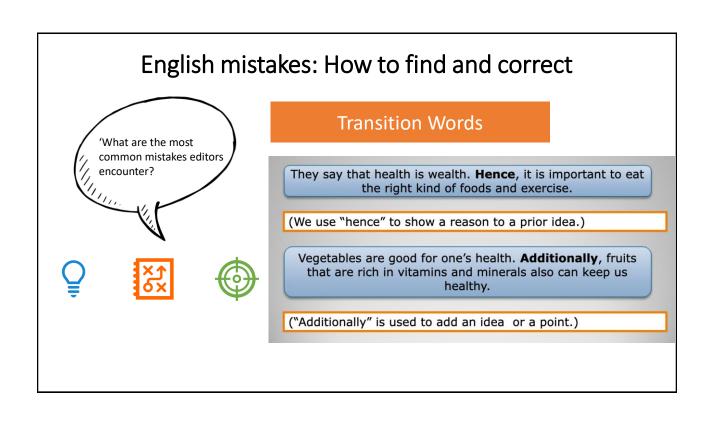


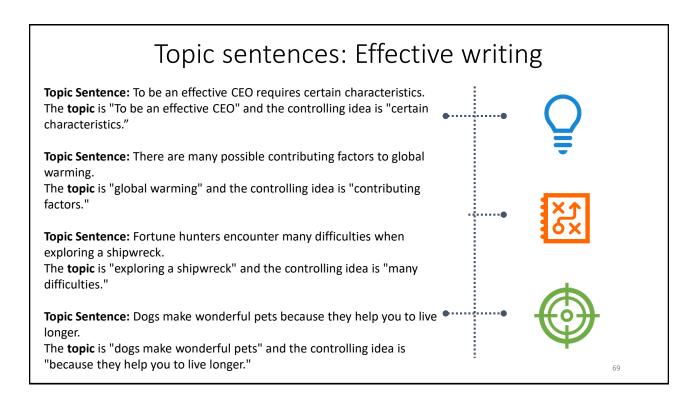


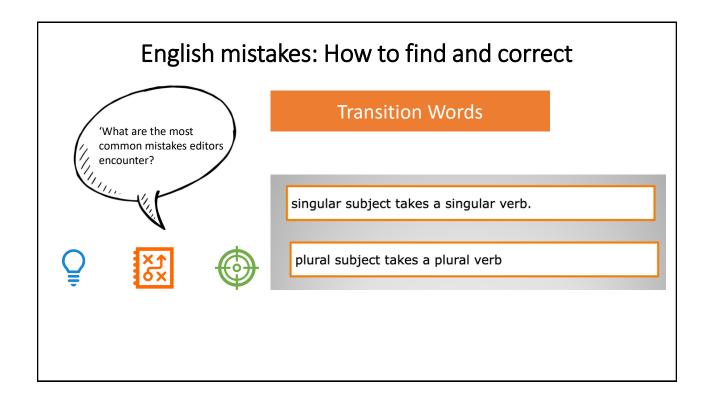


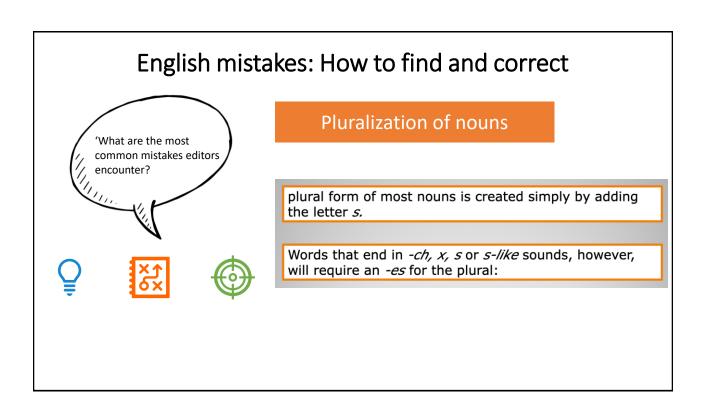


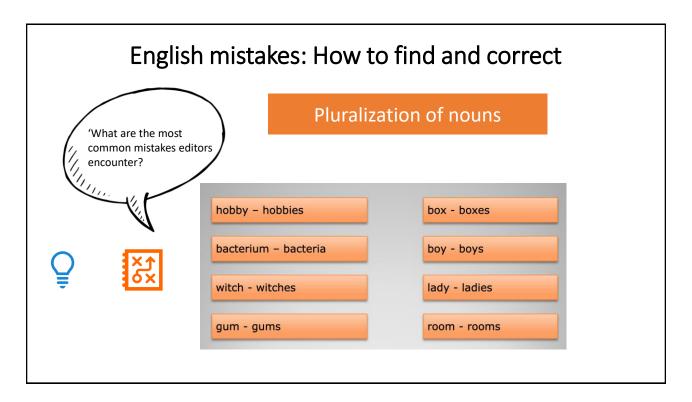
# English mistakes: How to find and correct Concise and to the point Short sentences No unnecessary words Familiar words Prefer the active to the passive voice Style Good punctuation

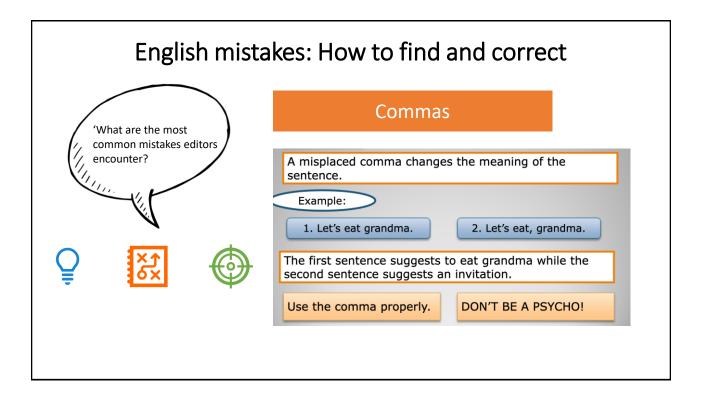














## Practical tips for scientific writing



#### **Punctuation:**

Colon (:) and semi colon (;)

A colon is used when a list or explanation follows, a semi colon is used to separate two or more related clauses provided each clause forms a full sentence.

#### **Commas**

A comma is put in a sentence to denote a brief pause between groups of words:

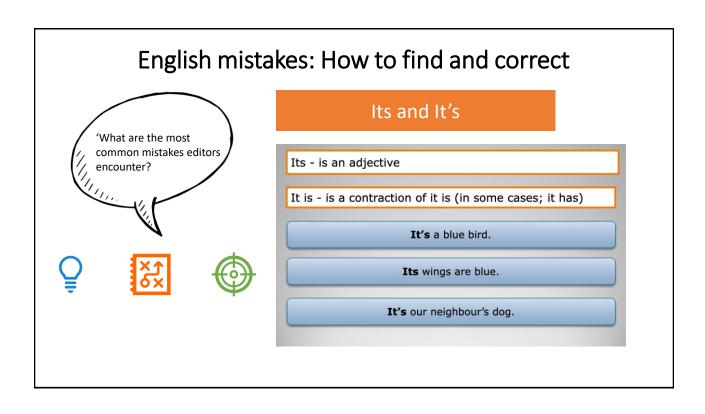
I will show you the paper about which I was speaking, but it is not as useful as I first thought.

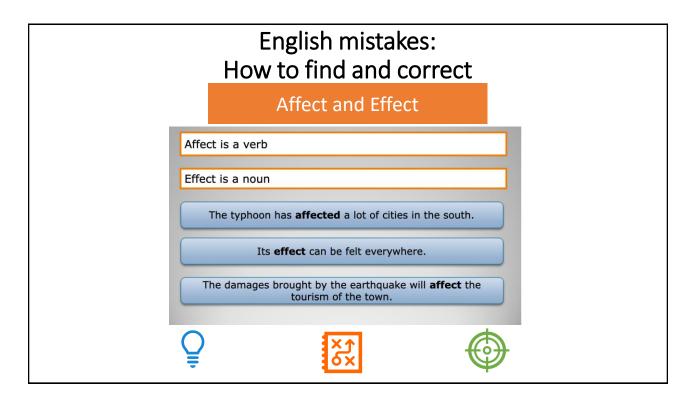
#### Or to separate subclauses:

Professor Brown, who is in charge of recruiting for the University, said that the latest estimates were higher than those for this time last year.

Finally to separate all items in a list except for the last two:

The following items may be imported duty free into Azania: Animals, cereals, plants, fruit, trees, legumes and nuts.







# Academic plagiarism: Understand to avoid









Plagiarism is an issue in the academic environment and beyond. The use of information without crediting it's source can harm your credibility.

#### Thus,

-Make use of the works of others to gather information
-Use the work of another and call it your own
-Make use of the works of others to support your argument
-Examine the works of others to shape an argument



#### without citation



# Common Forms of Academic Plagiarism Mosaic Plagiarism Include data from various sources and mix them together to make it seem original Paraphrasing Plagiarism Even if the words differ, the original idea remains the same and plagiarism occurs Self-Plagiarism It is best practice to cite your previous work thoroughly, even if you are simply revisiting an old idea or a previously published observation

#### Bulletproof your work: Inadvertent plagiarism can happen

You read something in a second (or third) language and then, without thinking, use it in your own writing

- ✓ Important: Consider getting your documents evaluated by a plagiarism checking service before submission
  - ✓ Keep careful records of reference sources you refer to
- ✓ Endnote, Mendeley (etc) are examples of reference management tools



- ✓ Journals/Publisher: Check addresses of authors on articles and send papers for plagiarism checking *before* peer review
- ✓ Journals are looking for <10% similarity with already published sources otherwise they will consider the work to be recycled

#### What does a plagiarism check look like?

Software searches already published literature in standard databases (e.g. Crossref, Scopus)

NB: Software packages have negotiated access to different databases so best to use more than one checking service

(e.g., Ephorus, Quetext, Ithenticate, Turnitin, Plagscan, Plagramme)





# What have we talked about today?

√The structure of an effective English abstract

✓ English writing tips & tricks







