# How to read a scientific paper part 3

## **Discussion**

A combination of tenses to highlight past research and future directions Present, Past, present perfect

**MODALITY** 

**MODALITY** 

Modalisation interne : S - MODAL - P

He must feel desperate

Modalisation externe: Modalisation - (S/P)

It's possible that he feels desperate

#### **MODALITY**

## Caractéristiques grammaticales des modaux

- Pas de -s à la 3<sup>ème</sup> personne du singulier
- Ne sont pas suivis de TO + base verbale
- Ne sont pas précédés de TO
- Ne se conjuguent pas avec auxiliaire DO
- N' acceptent pas -ING

# La modalité

Qu'est-ce qu'un modal?

Dictum he/feel desperate (S/P)

Modus Must (opérateur d'intervention sur S/P)

Le terme modal est lié au mode (mood) : idée de manière

E manifeste une attitude / prise de position sur la RP Donne son avis sur les conditions ou les chances de réalisation de S/P

Possible, impossible, nécessaire, souhaitable, inévitable, logique, acceptable etc.

# La modalité

Deux pôles sémantiques des modaux

Emploi épistémique / Emploi non épistémique

Chaque modal présente ces 2 interprétations

he must be over 25 / He must work

E déduit la possibilité d'existence de S/P, il fait intervenir sa connaissance en fonction d'un raisonnement

He must be over 25

E : « misant sur mes capacités d'évaluation de la situation et de raisonnement, je DEDUIS que la relation S/P (he/be over 25) à toutes les chances d'être vraie »

Modaux épistémiques paraphrasables par :

It is possible that S/P
It is probable that S/P
S/P is likely to be true
S/P is necessarily true

S/P < E (= S/P provient d' un raisonnement de E)

Relation Prédicative sous domination de E

C'est E qui décide des chances de véracité de R/P en fonction de ce qu'il voit, pressent, connaît

E déduit, S/ P est le produit d'un raisonnement d' E

E donne son avis (du plus au moins certain) avec la MEME implication

**Must**: He must be mad

Négation must épistémique : can't : he can't be mad

Congruence

Will

That will be the milkman

E se fie aux habitudes de S avec Will, avec Must s'appuie sur indices précis

Toujours Congruence: Set P « vont bien ensemble » aux yeux d' E

# Degré de certitude de E

Modal	Modalité épistémique
must	Forte probabilité
Can	Forte probabilité
will	Forte certitude
May	Probabilité 50/50
Could	Probabilité faible
might	Très faible probabilité
Should	Ce qui devrait être

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One possible explanation for the absent or weak behavioral response to mother's voice that can be ruled out is that infants could not recognize the maternal voice in the brief sample. Previously published ERP studies demonstrate otherwise, at least in infants without complicated prenatal and birth histories. Moreover, previous sucking experiments have shown that neonates can respond differentially to brief speech samples such as vowels or syllables.

#### **Discussion**

A combination of tenses to highlight past research and future directions Present, Past, present perfect

#### **MODALITY**

The rightward asymmetry that we observed could also arise as a result of infants' increased sensitivity to prosodic features of speech. To this end, infant-directed speech, which consists of exaggerated prosodic contours, is known to be tightly coupled to advanced development of speech in the first years of life (Ram Irez-Esparza et al., 2014). Future longitudinal and cross-sectional studies should explore when and how the neural processing of phonemes becomes more left lateralized over development.

While remaining in a state of heightened neural plasticity may cause slower growth of each of the languages, it also leads to a heightened sensitivity of the prefrontal cortex in responding to speech sounds, which may be related to more efficient cognitive resources for performing executive function tasks

Ramirez et al, Frontiers, 2016

Previous studies (den	nonstrate)	that both
visual and propriocep	tive feedback (influence)	motor
control. The relative c	ontributions of these sensory modalit	ies to the on-line
computation of body	position-that is, the body schema-	
(remain)	unclear. We (report)	a study
designed to explore th	ne roles of vision and proprioception i	n motor planning
. The task (require)	subjects to judg	ge if a pictured
stimulus (be)	a right or left hand; stimuli	
(include)	pictures of a right or left hand in a	palm up or palm
down position and in	six different angular rotations (0 degre	ees, 60 degrees,
120 degrees, 180 deg	grees , 240 degrees , 300 degrees ). Ea	ch subject
(test)	with his/her right hand palm down a	and palm up.

Previous studies have demonstrated that both visual and proprioceptive feedback influence motor control. The relative contributions of these sensory modalities to the on-line computation of body position--that is, the body schema--remain unclear. We report a study designed to explore the roles of vision and proprioception in motor planning. The task required subjects to judge if a pictured stimulus was a right or left hand; stimuli included pictures of a right or left hand in a palm up or palm down position and in six different angular rotations (0 degrees, 60 degrees, 120 degrees, 180 degrees, 240 degrees, 300 degrees). Each subject was tested with his/her right hand palm down and palm up.

There (be)thr	ee conditions: a "contro	ol" condition (real hand in view), a
"fake hand" cond	ition (fake hand in view,	real hand out of view), and a
"proprioception" o	ondition (no fake hand,	real hand out of view). We
(find)	that proprioceptive in	put (that is, the subject's "felt
position") (have)_	a signific	ant influence on mental rotation
whereas the visua	ally perceived posture of	f the hand did not. We
(suggest)	that, at least u	nder some circumstances,
proprioceptive infl	ow (represent)	the dominant sensory
input to the on-line	e representation of the b	odv in space

There were three conditions: a "control" condition (real hand in view), a "fake hand" condition (fake hand in view, real hand out of view), and a "proprioception" condition (no fake hand, real hand out of view). We found that proprioceptive input (that is, the subject's "felt position") had a significant influence on mental rotation whereas the visually perceived posture of the hand did not. We suggest that, at least under some circumstances, proprioceptive inflow may represent the dominant sensory input to the on-line representation of the body in space.

## Pronoms relatifs

There are five basic relative pronouns: who, whom, whose, which, that

Who (subject) and whom (object) are generally only for people.

Whose is for possession.

Which is for things.

That can be used for things and people only in *defining relative clauses* (clauses that are essential to the sentence and do not simply add extra information

## Pronoms relatifs

#### defining relative clauses

S=subject, O=object, P=possessive

- S The person who phoned me last night is my teacher.
- The person that phoned me last night is my teacher.
- The car which hit me was yellow.
- The car that hit me was yellow.
- O The person whom I phoned last night is my teacher.
- The people who I phoned last night are my teachers.
- The person that I phoned last night is my teacher.
- The person I phoned last night is my teacher.
- The car which I drive is old.
- The car that I drive is old.
- The car I drive is old.
- P The student whose phone just rang should stand up.
- Students whose parents are wealthy pay extra.
- The police are looking for the car whose driver was masked.
- The police are looking for the car of which the driver was masked

## Pronoms relatifs

### non defining relative clauses

S=subject, O=object, P=possessive

- **S** Mrs Pratt, **who** is very kind, is my teacher.
- The car, **which** was a taxi, exploded.
- The cars, **which** were taxis, exploded.
- O Mrs Pratt, whom I like very much, is my teacher.
- Mrs Pratt, who I like very much, is my teacher.
- The car, which I was driving at the time, suddenly caught fire.
- **P** My brother, **whose** phone you just heard, is a doctor.
- The car, **whose** driver jumped out just before the accident, was completely destroyed.
- The car, the driver **of which** jumped out just before the accident, was completely destroyed.

#### Order of typical elements included in an abstract

#### **Background**

1: some background information

2: the principal purpose of the study

3: some information about the methodology of the study

4: the most important results of the study

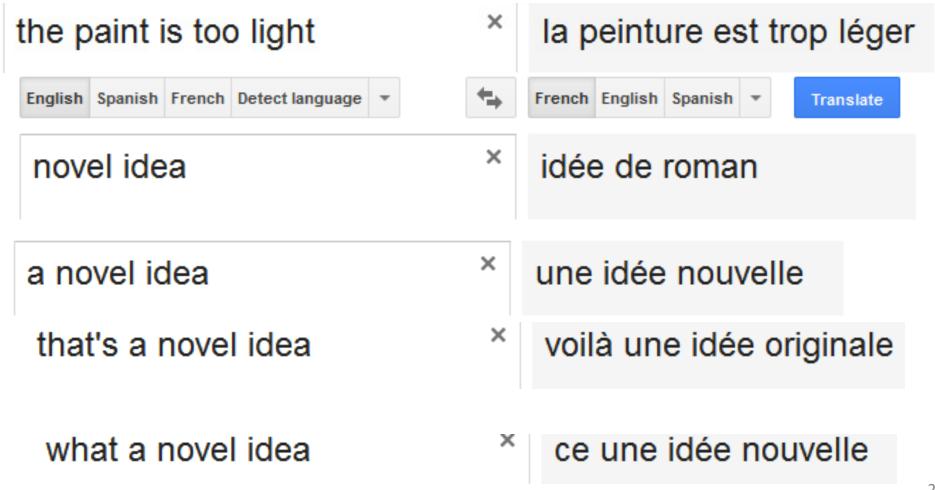
5: a statement of conclusion

Seven studies using experimental and naturalistic methods reveal that upper-class individuals behave more unethically than lower class individuals. In studies 1 and 2, upper-class individuals were more likely to break the law while driving, relative to lower-class individuals. In follow-up laboratory studies, upper-class individuals were more likely to exhibit unethical decision-making tendencies (study 3), take valued goods from others (study 4), lie in a negotiation (study 5), cheat to increase their chances of winning a prize (study 6), and endorse unethical behavior at work (study 7) than were lower class individuals. Mediator and moderator data demonstrated that upper-class individuals' unethical tendencies are accounted for, in part, by their more favorable attitudes toward greed..

# Attention à google trad.... vocabulary

Light (adjectif): - clair (not dark)

- basses calories (not high calorie)
- léger (not heavy)



# Attention à google trad.... vocabulary

#### Collins

#### Please enter the text to be translated:

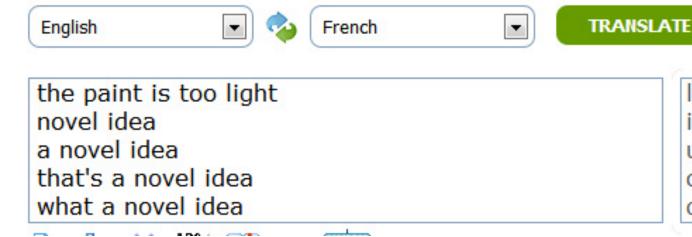
the paint is too light novel idea a novel idea that's a novel idea what a novel idea

Powered by Microsoft® Translator

#### English to French translation

la peinture est trop légère idée nouvelle idée originale qui est une idée nouvelle quelle idée originale

#### Online-Translator.com

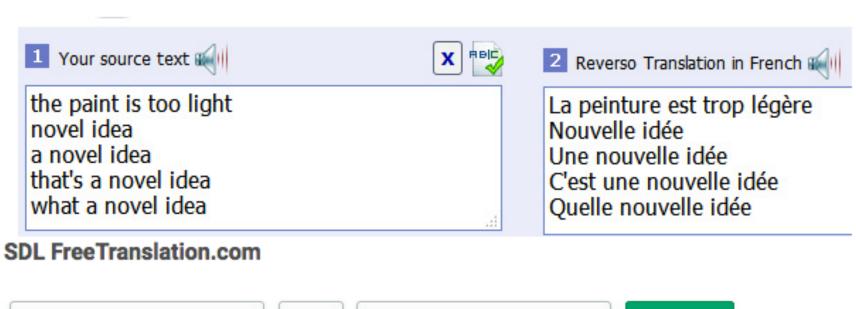


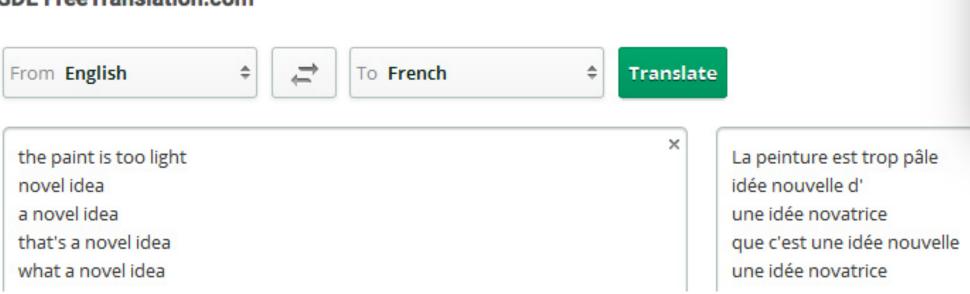
la peinture est claire trop idée originale une idée originale c'est une idée originale quelle idée originale

## Attention à google trad....

## vocabulary

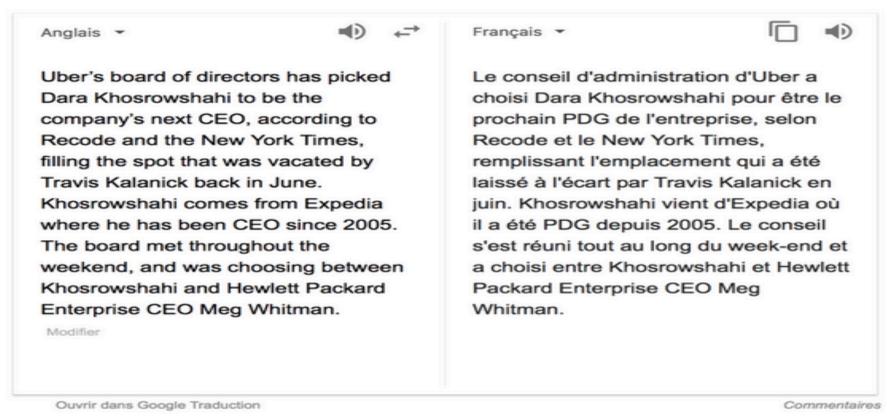
#### Reverso





## Attention à google trad....

## vocabulary



Traducteur

Translate from ANGLAIS (detected) >

Uber's board of directors has picked Dara Khosrowshahi to be the company's next CEO, according to Recode and the New York Times, filling the spot that was vacated by Travis Kalanick back in June. Khosrowshahi comes from Expedia where he has been CEO since 2005. The board met throughout the weekend, and was choosing between Khosrowshahi and Hewlett Packard Enterprise CEO Meg Whitman.

Traduire en FRANÇAIS V

Le conseil d'administration d'Uber a choisi Dara Khosrowshahi pour être le prochain PDG de l'entreprise, selon Recode et le New York Times, en comblant le poste qui a été libéré par Travis Kalanick en juin dernier. Khosrowshahi vient d'Expedia où il est CEO depuis 2005. Le conseil s'est réuni tout au long de la fin de semaine et a choisi entre Khosrowshahi et Meg Whitman, PDG de Hewlett Packard Enterprise.

Google a traduit « remplissant l'emplacement » quand DeepL a compris qu'il s'agissait d'un poste dans le contexte d'une traduction qui tourne autour d'une embauche. Le deuxième piège 25 est celui de la syntaxe que Google n'a pas respectée sur la fin (weekend)

I am by birth a Genevese; and my family is one of the most distinguished of that republic. My ancestors had been for many years counsellors and syndics; and my father had filled several public situations with honour and reputation. He was respected by all who knew him, for his integrity and indefatigable attention to public business.

Je suis de naissance un Genevois; Et ma famille est l'une des plus distinguées de cette république. Mes ancêtres étaient depuis de nombreuses années des conseillers et des syndics; Et mon père avait rempli plusieurs situations publiques avec honneur et réputation. Il a été respecté par tous ceux qui l'ont connu, pour son intégrité et son attention infatigable aux affaires publiques.

Je suis genevois de naissance, et ma famille est l'une des plus distinguées de cette république. Mes ancêtres avaient été pendant de nombreuses années des conseillers et des syndics; et mon père avait rempli plusieurs situations publiques d'honneur et de réputation. Il était respecté par tous ceux qui le connaissaient, pour son intégrité et son attention inlassable aux affaires publiques.

Je suis né à Genève ; et ma famille est l'une des plus distinguée de cette république. Mes ancêtres étaient depuis de nombreuses années conseillers et syndics ; et mon père avait rempli avec honneur et gloire plusieurs fonctions publiques. Tous ceux qui le connaissaient respectaient son intégrité et son dévouement infatigable au bien public. Sa jeunesse fut tout entière consacrée aux affaires de son pays ; diverses circonstances l'avaient empêché de se marier tôt, et ce ne fut que sur le déclin de sa vie qu'il devint époux et père de famille.

New studies are interesting to the extent that they can shed new light on certain project features. 

□→ www2.parl.gc.ca

Les nouvelles études sont intéressantes dans la mesure où elles peuvent apporter un éclairage différent sur certains aspects du projet.

→ www2.parl.gc.ca

Shed new light: Examining how social class is associated with unethical behavior, or actions that harm others and are illegal or morally objectionable to one's community (1), would shed light on behaviors

## Cheating:

on behaviors such as cheating, deception, or breaking the law that have important consequences for society.

overcome (sb./sth.) ◀) verbe (overcame, overcome)	
surmonter v ◄()) (i)	
He makes friends easily when he overcomes his shyness.	Il se fait des amis facilement quand il surmonte sa timidité.
I have finally overcome my fear of spiders.	J'ai enfin surmonté ma peur des araignées.
résoudre qqch. v ◀) (i)	
I am confident we can overcome this problem.	Je suis convaincu que nous pouvons résoudre ce problème.
franchir v ◄()) (i)	
He overcame many obstacles to make his project a success.	Il a franchi de nombreux obstacles pour réussir son projet.
vaincre qqch./qqn. v ◄()) (i)	
My wife helped me to overcome my fear of dogs.  She overcame all the obstacles on the path to victory.	Ma femme m'a aidé à vaincre ma peur des chiens. Elle a vaincu tous les obstacles sur le chemin de la victoire.
maîtriser qqch./qqn. v 🜒 🕠	
I struggled to overcome my fear of heights.	Je me suis efforcée de maîtriser ma peur des hauteurs.
dominer qqch./qqn. v ◄()) (i)	
The wrestler overcame his opponent to win the match.	Le lutteur a dominé son adversaire pour remporter le combat.

#### Overcome

lower-class individuals may be more motivated to behave unethically to increase their resources or overcome their disadvantage.

```
give rise to (sth.) ◀) verbe

donner lieu à qqch. v ◀) ①

plus rare:
engendrer qqch. v ◀) ① · causer v ◄) ① · déclencher qqch. v ◄) ②

give rise ◄) verbe (gave, given)
provoquer v ◄) ①
```

Give rise to Greater resources, freedom, and independence from others among the upper class give rise to self-focused social cognitive tendencies

Lend credence Historical observation lends credence to this idea.

```
exto (sb./sth.) verbe (extolled, extolled) (également : extoll)
     vanter v ■ (i)
     exalter qqch./qqn. v 🗐 🛈
     plus rare:
     chanter les louanges v ◄ () (i) · louer qqch./qqn. v ◄ (i) (i) · prôner qqch. v ◄ (ii) (i) · communiquer v ◄ (ii)
     glorifier qqch./qqn. v ◀) (i) faire étalage v ◀) (i)
                        Religious teachings extol the poor and admonish the rich with claims
      Extol
                        like, "It will be hard for a rich person to enter the kingdom of
                        heaven"
      Admonish
admonish (sb.) | verbe (admonished, admonished)
     réprimander v ◀) (i)
     plus rare:
     admonester ggn. v i) disputer ggn. v ii) gronder ggn. v iii) donner un avertissement à ggn. v
```

cupidité f ◄() (i)

convoitise f (i)

He accepted the bribe out of greed.

Il a accepté le pot-de-vin par convoitise.

gourmandise f ■() (i)

Out of greed, he ate the entire cake.

Par gourmandise, il a mangé le gâteau tout entier.

plus rare :

greed

Building upon past findings, in the present investigation we tested whether upper-class individuals—relative to lower-class individuals are more likely to engage in unethical behavior, and whether their attitudes toward greed might help explain this tendency.

# Here you are

Which social class is the more likely provenance of unethical behavior, the upper class or the lower class?

Which refers to what???

The upper class or the lower class

## Here you are

Examining how social class is associated with unethical behavior, or actions that harm others and are illegal or morally objectionable to one's community (1), would shed light on behaviors such as cheating, deception, or breaking the law that have important consequences for society.

Sujet de « would shed new light »

# Here you are

On the one hand, lower-class individuals live in environments defined by fewer resources, greater threat, and more uncertainty (2, 3).

On the one hand.... On the other hand.... Where i it? Is it written on the other hand?

A second line of reasoning, however, suggests the opposite prediction: namely, that the upper class may be more disposed to the unethical.

# Find tenses, aspects, modal verbs

# Find tenses, aspects, modal verbs

# Find linking words

# Find linking words

## Outil d'aide à la compréhension du vocabulaire scientifique. Mathieu REVRANCHE



				U GOUITEIT
			"Numerous studies have shown that" : de nombreuses études ont montré que	Numerous studies have shown that negative affect impairs executive function
			"Many other studies have been conducted to explore" : beaucoup d'autres études ont ét menées pour explorer	
			"Studies have documented trea	dies have documented that effective tments are available for suicidal aviours
			"A prior study from our research group showed that" : une étude antérieure de notre groupe de recherche a montré que	A prior study from our research group showed that motivational interviewing (was associated with favorable behavior in
				Available studies of group treatment for partner violent men have found that
		Études (studies)	"Studies to date have emphasised" : les études menées à ce jour ont mis l'accent sur	Studies to date have emphasised different needs areas for parents who have a child with developmental disability
Description de la littérature			"Results of studies revealed the need for" : les résultats des études ont révélé la nécessité de	First, results of studies revealed the need for parents to be better informed by professionals about their children's disorder
			"Several studies indicate that": plusieurs études indiquent que	Several studies also indicate that the health context and care available for children and parents could influence
	Au niveau des apports des études antérieures		"As pointed out in a previous study" : comme indiqué dans une étude antérieure	
			"These key studies highlighted the importance of" : ces études clés ont souligné l'importance de	These key studies highlighted the importance of providing infants with the opportunity to act and perceive

	It provides one promising means of "To provide someth chose (en plus ; d'ut	ing" : fournir quelque ile ; etc.)		
These results offer the first evidence that similar negatively valenced affective states can have different effects on executive function.	"These results offer the first evidence that" : ces résultats offrent la première évidence que			
To the best of our knowledge, this is the first study conducted in the French population regarding the needs of parents of children with ASD	"To the best of our knowledge, this is the first study conducted" : à notre connaissance, c'est la première étude menée	Apports nouveaux		
	"These data provide the first known confirmation that" : ces données fournissent la première confirmation connue que			
The findings throw light on how to prioritise support	"The findings throw light on": les résultats font lumière sur		Apports de l'étude	
This methodology has the advantage of collecting the actual responses of famili	"This methodology has the advantage of" : cette méthodologie présente l'avantage de			Discussio
Taken together, these results indicate that clients who () voiced responsibility for abusive acts, encouraged change in others	"Taken together, these results indicate that" : pris ensemble, ces résultats indiquent que	Apports concrets		
Such results further highlight the potential importance of client verbalizations in understanding treatment process	"Such results further highlight" : de tels résultats soulignent, en outre,			
Taking into account all these data, it is quite reasonable to propose that withholding a prepared response within positively valenced contexts is more difficult	"Taking into account all these data, it is quite reasonable to propose that": compte tenu de toutes ces données, il est tout à fait raisonnable de proposer que"			
	"There are several important limitations to consider": plusieurs limites importantes sont à considérer			
	"Our results should be interpreted in the light of several important limitations": nos résultats devraient être interprétés à la lumière de plusieurs limites importantes	Présentation des limite	5	
	"The study had several limitations" : l'étude comportait plusieurs limites			