



## DATA SCIENCE CAPSTONE PROJECT 1

### Lexicogrammar

is about (lexis) and (grammar)

Rule #1: \_\_\_\_\_

Rule #2: \_\_\_\_\_

### Exercise: Where is the main clause?

Although it **appeared** that John Howard **entered** the Iraq War to **support** President Bush's plan for regime change in Iraq as its own, and notwithstanding his claim that it **entered** the war on international co-operation grounds, namely the need to enforce United Nations Security Council Resolutions (UNSCR) 1441 and 687, **claiming** that the disarming of Iraq of its weapons-of-mass-destruction **was** vital to Australia's security, his primary goal **was** a long-term security goal, namely the reinvigoration of Australia's bilateral security relationship with the United States, which he **believed** his predecessors **had** gradually **allowed** to be taken for granted.

2 types of conjunctions for \_\_\_\_\_

\_\_\_\_\_ (e.g. \_\_\_\_\_)  
 Function: \_\_\_\_\_  
 \_\_\_\_\_ (e.g. \_\_\_\_\_)  
 Function: \_\_\_\_\_

### Types of sentence structures

Left-branching	Right-branching	Nested
Characteristics	Characteristics	Characteristics
Function	Function	Function
Effect on reading	Effect on reading	Effect on reading

## Projection

3 types of  
projecting verbs

→	saying-type	e.g.	✓
→	thinking-type	e.g.	✗
→	showing-type	e.g.	✓✓✓✓

## Theme

What are these sentences about?

1. Cao and Wei (2009) argue that vesting requirements and bankruptcy risk can lead to significant value discounts.
2. Vesting requirements and bankruptcy risk can lead to significant value discounts (Cao and Wei, 2009).
3. There are significant value discounts associated with vesting requirements and bankruptcy risk (Cao and Wei, 2009).

Synthesis involves:

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## Common grammar problems

### 1) Fused sentences

Greenhouse gases are emissions that contribute to the warming of the Earth's atmosphere they trap the sun's heat.

### 2) Comma splices

Harry Potter is a publishing phenomenon, he has made J.K. Rowling very wealthy.

### 3) Sentence fragments

Because I said so.

### 4) Dangling modifiers(the modifier does not modify anything)

Flying over the mountain, the sheep dotted the green countryside.

Having given birth, the veterinarian should ensure that the cow and calf are isolated from the hear.

### 5) Separated modifiers(the modifier modifies the wrong thing)

He became an orphan when his parents died at the age of two.

### 6) Confusing modifiers(the modifiers modifies more than 1 thing)

People who visit the back streets frequently are attacked by drug addicts.