

Language and thought

Day 4: What information about the world does language encode?

Wenkai Tay

UCL Linguistics Short Courses 2024

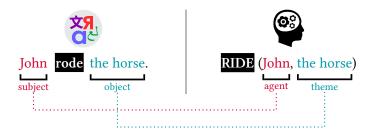
22 Nov 2024



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Linking problem





Linking problem



Absolute linking:

■ Link agent to subject, theme to object

Relative linking:

- Link arguments in a way that preserves prominence relations
 - subject > object
 - agent > theme

22 Nov 2024

Unaccusative verbs



transitive verb



Unaccusative verbs



intransitive verb (unergative)

intransitive verb (unaccusative)

transitive verb

transitive verb

transitive verb

unaccusative)

transitive verb

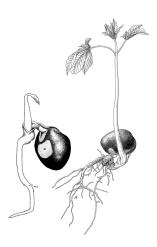
transitive verb

subject=theme

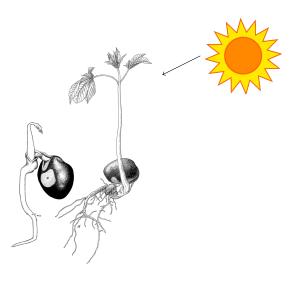
broke

the vase
object=theme





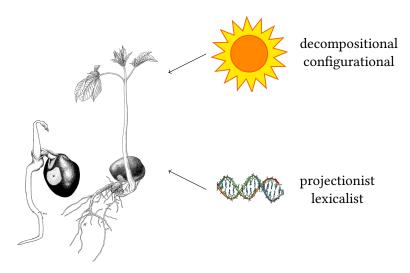




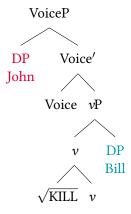
decompositional configurational

22 Nov 2024

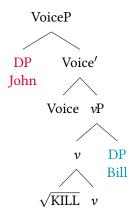


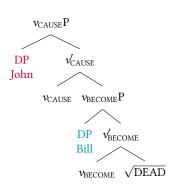




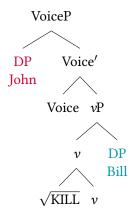


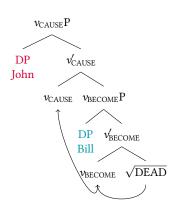






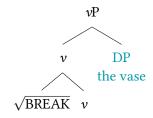






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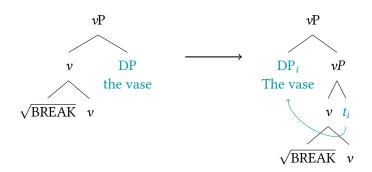
(1) The vase broke.



22 Nov 2024

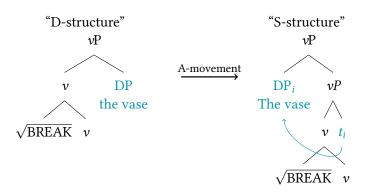
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(1) The vase broke.



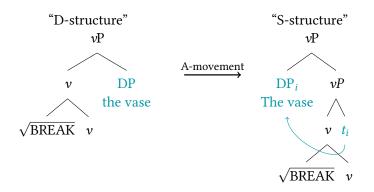
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(1) The vase broke.



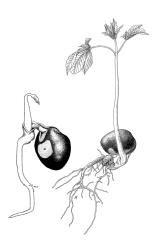
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(1) The vase broke.

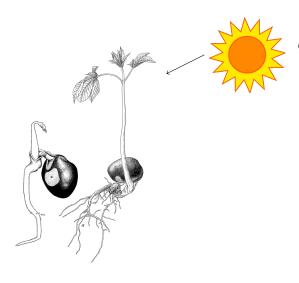


Case? EPP?



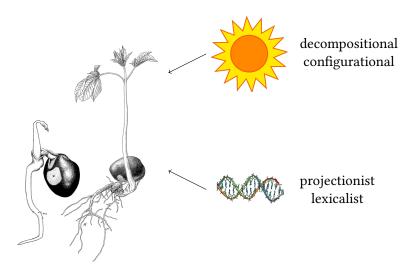






decompositional configurational





Outline



- 1 Theta grids
- 2 Unaccusative verbs
- 3 Thematic hierarchy
- 4 Morphological operations
- 5 Decompositional vs projectionist approaches



ride $[\theta \ \theta]$





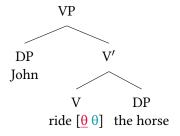




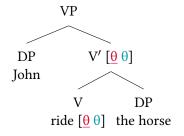




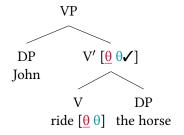




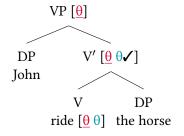




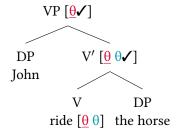




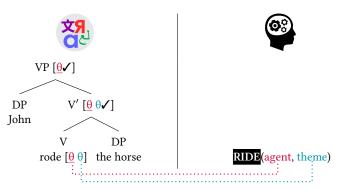




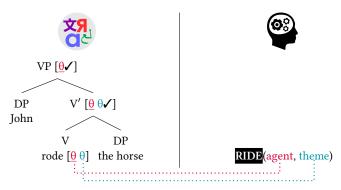




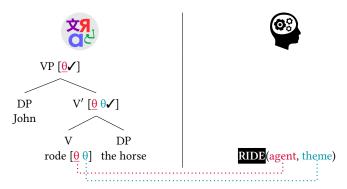








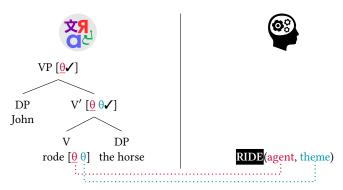




Possible set of linking rules:

■ Link agent to external θ -role, theme to internal θ -role

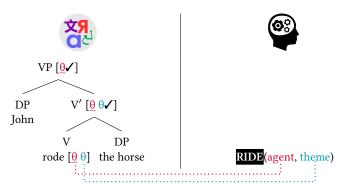




- Link agent to external θ -role, theme to internal θ -role
- **Link** θ -roles to arguments in a way that preserves prominence relations

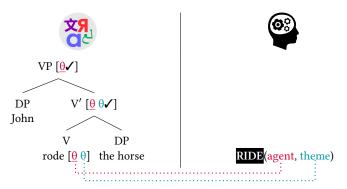
θ-grids





- Link agent to external θ -role, theme to internal θ -role
- \blacksquare Link $\theta\text{-roles}$ to arguments in a way that preserves prominence relations
 - \blacksquare external θ-role > internal θ-role





- Link agent to external θ -role, theme to internal θ -role
- **Link** θ -roles to arguments in a way that preserves prominence relations
 - **■** external θ -role > internal θ -role
 - subject > object

Outline



- 1 Theta grids
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- 4 Morphological operations
- 5 Decompositional vs projectionist approaches

Unaccusative verbs



intransitive verb $\underbrace{\text{John}}_{\text{subject=agent}}$ laughed.

transitive verb





intransitive verb (unergative)

intransitive verb (unaccusative)

transitive verb

transitive verb

transitive verb

transitive verb

transitive verb

transitive verb

John
subject=theme

subject=agent

broke

the vase
object=theme



```
intransitive verb (unergative)

intransitive verb (unaccusative)
transitive verb

transitive verb

transitive verb

transitive verb

unaccusative)

transitive verb

subject=theme

subject=agent

broke

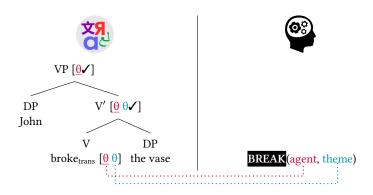
the vase

object=theme
```

What are the structures for each of these verb classes?

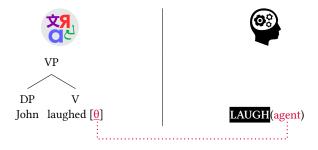
Transitive verbs





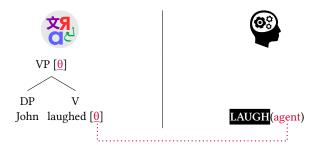
Unergative verbs





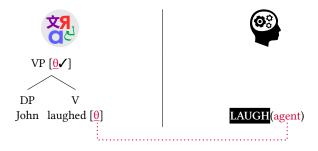
Unergative verbs



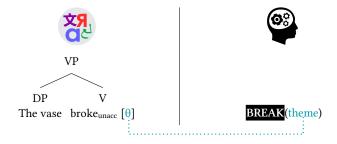


Unergative verbs

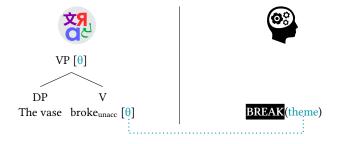




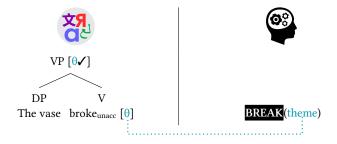








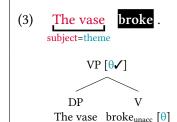




Two types of intransitive verbs







Outline



- 1 Theta grids
- 2 Unaccusative verbs
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- (4) John broke the vase.
- (5) The hammer broke the vase.



- (4) John broke the vase.
- (5) The hammer broke the vase.
- (6) John hit the table.
- (7) John hit Bill .



- (4) John broke the vase.
- (5) The hammer broke the vase.
- (6) John hit the table.
- (7) John hit Bill .

Agent > theme



- (4) John broke the vase.
- (5) The hammer broke the vase.
- (6) John hit the table.
- (7) John hit Bill .

Agent > theme → Agent/cause > theme/patient



(8) John gave the book to Bill.



(8) John gave the book to Bill.

 \rightarrow agent > theme > goal



(8) John gave the book to Bill.

(9) John gave Bill the book.

 \rightarrow agent > theme > goal



- (8) John gave the book to Bill.
- (9) John gave Bill the book.

- \rightarrow agent > theme > goal
- \rightarrow agent > goal > theme

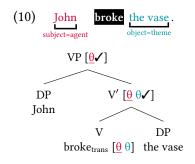
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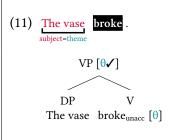


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Causative alternation

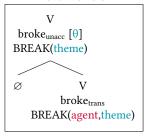








MORPHOLOGY

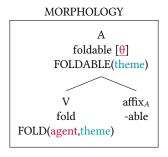




- (12) I folded the chair.
- (13) The chair is **foldable**.

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- (12) I folded the chair.
- (13) The chair is **foldable**.



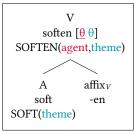


- (14) The wax is soft.
- (15) I **softened** the wax.

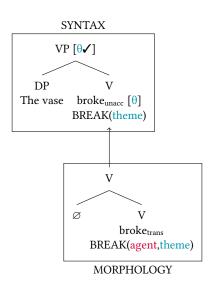
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- (14) The wax is soft.
- (15) I softened the wax.

MORPHOLOGY



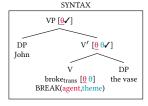




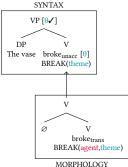
Causative alternation







(17)The vase broke. subject=theme



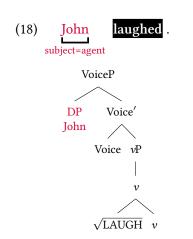
Outline



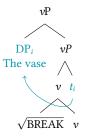
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Decompositional approach: intransitive verbs



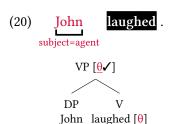


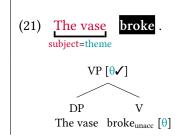




Projectionist approach: intransitive verbs

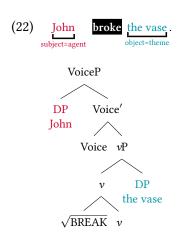


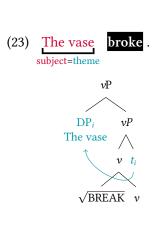




Decompositional approach: causative alternation

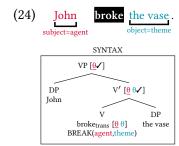




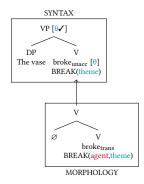


Projectionist approach: causative alternation









Summary



- 1 What is one thing that you learned today?
- **2** What is one question that you have?

Bonus: unaccusative verbs in English



- (26) The vase broke_{unacc} $[\theta]$.
- (27) John broke_{trans} $[\underline{\theta} \ \theta]$ the vase.

Bonus: unaccusative verbs in Mandarin



Mandarin Chinese:

Unaccusative / anticausative alternant:

(28) Huāpíng pò-le. vase break-PFV 'The vase broke.'

Transitive / causative alternant:

(29) *Zhāngsān pò-le huāpíng. Zhangsan break-pfv vase 'Zhangsan broke the vase.'

Bonus: unaccusative verbs in Mandarin



Mandarin Chinese (Beijing dialect):

Unaccusative / anticausative alternant:

(30) Huāpíng cèi-le. vase break-PFV 'The vase broke.'

Transitive / causative alternant:

(31) Zhāngsān cèi-le huāpíng. Zhangsan break-pfv vase 'Zhangsan broke the vase.'

Bonus: unaccusative verbs in English



- (32) The vase broke_{unacc} $[\theta]$.
- (33) John broke_{trans} $[\underline{\theta} \ \theta]$ the vase.

Bonus: unaccusative verbs in English



- (32) The vase broke_{unacc} $[\theta]$.
- (33) John broke_{trans} $[\underline{\theta} \ \theta]$ the vase.
- (34) The package arrived_{unacc} $[\theta]$.
- (35)*John arrived_{trans} $[\underline{\theta} \ \theta]$ the package.

References I



Neeleman, Ad, and Hans van de Koot. 2002. The Configurational Matrix. *Linguistic Inquiry* 33:529–574.