

## The Right Frontier in the QUD Framework

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### The Right Frontier and the Stack





Fvidence

Narration

Parallel

subordinating relations

(1) Bill left. Chris told me so. He ...

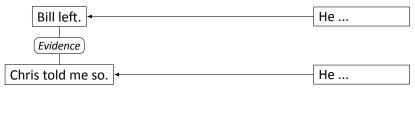
#### coordinating relations

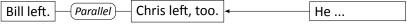
- (2) Bill left. Then Chris arrived. He ...
- (3) Bill left. Chris left, too. He ...

Asher & Vieu (2005) Subordinating and coordinating discourse relations









*The Right Frontier Constraint*, Polanyi 1988, Webber 1990, Asher & Vieu 2005, Holler & Irmen 2007





subordination

What happened? Bill left.





subordination

Did he really? Chris told me so.

What happened? Bill left.





subordination

What happened? Bill left.





subordination

What happened? Bill left.

coordination

What happened?





subordination

What happened? Bill left.

coordination

What did Bill do? Bill left.

What happened?





subordination

What happened? Bill left.

coordination

What happened?





subordination

What happened? Bill left.

coordination

What did Chris do? Chris left, too.

What happened?





### The Right Frontier in the QUD Framework: Fixing the details





- Every statement in discourse (partially) answers some currently most relevant question.
- The currently most relevant question is the topmost question on the stack.
- A question is popped off the stack only if it is completely answered (or acknowledged to be practically unanswerable).
- A question is pushed on top of the stack if it *helps* answering the currently topmost question on the stack





What happened? Bill left.

Is this a complete answer?

- Bill left: no
- EXH(Bill left): yes
   Bill left and that is the only relevant thing that happened
- exhaustivisation of answers occurs by default

van Rooij & Schulz (2006) *Pragmatic meaning and non-monotonic reasoning: The case of exhaustive interpretation* 





#### What happened? Bill left. Did he really?

#### • Only if the answer is accepted, is the question answered.

Ginzburg (2012) The interactive stance





- A subquestion helps answering its superquestion
- ?ψ is a subquestion of ?φ iff a complete answer to ?ψ contextually entails a partial answer to ?φ.

#### Examples of subquestions:

- What did Bill do? is a subquestion of What happened?
- Did Bill leave? is a subquestion of What did Bill do?
- What did Bill do? is a subquestion of Who did what?





(4) Max fell. John pushed him. He ...

Explanation

What happened? Max fell.

Why did Max fall? is not a subquestion of a (contextually restricted) What happened?





(4) Max fell. John pushed him. He ...

Explanation

Why? John pushed him.

What happened? Max fell.

Why did Max fall? is not a subquestion of a (contextually restricted) What happened?





(4) Max fell. John pushed him. He ...

Explanation

What happened? Max fell.

Why did Max fall? is not a subquestion of a (contextually restricted) What happened?





What kinds of questions can be pushed on top of the stack?

- subquestions
- supporting questions: the answer to a supporting question makes the answer to its superquestion more acceptable
- Elaboration questions
- Explanation questions

...

Jasinskaja & Zickenheiner (submitted) *Speech acts that support other speech acts* Onea (2016) *Potential Questions*; Riester, Brunetti & De Kuthy (2018) *Annotation Guidelines for Questions under Discussion and Information Structure* 





## The forward-looking potential of QUDs: Incomplete elaborations





- (5) I did two things on Friday.
  I went for a walk,
  and I had dinner at my favourite restaurant.
  That took 3 hours. / Bill did too.
  - The dinner took 3 hours.
  - The two things I did on Friday took 3 hours.
  - Bill had dinner at my/his favourite restaurant too.
  - Bill did (the same) two things on Friday too.

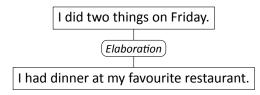




- (6) I did two things on Friday.I had dinner at my favourite restaurant.That took 3 hours. / Bill did too.
  - The dinner took 3 hours.
  - # The two things I did on Friday took 3 hours.
  - Bill had dinner at my/his favourite restaurant too.
  - # Bill did two things on Friday too.







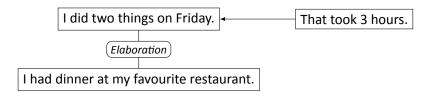












Both readings should be possible.





What did I do on Friday? I did two things.

- a stack: first in, last out
- a queue: first in, first out
- subordinate questions are stacked
- coordinate questions are queued





What was the first thing? I had dinner.

What was the second thing?

What did I do on Friday? I did two things.

. . .

- a stack: first in, last out
- a queue: first in, first out
- subordinate questions are stacked
- coordinate questions are queued





What was the second thing?

What did I do on Friday? I did two things.

- a stack: first in, last out
- a queue: first in, first out
- subordinate questions are stacked

...

coordinate questions are queued





## The forward-looking potential of QUDs: Contrastive topics and delimitation





(7) The weekend was great.On Saturday, John went skiing.On Sunday, he went to the gym.Mary did too.

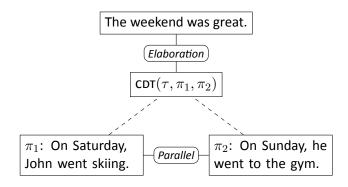
Preferred reading: Mary went to the gym on Sunday.

(8) The weekend was great.
 JOHN (L+H\*LH%) went skiing on Saturday.
 And he went to the gym on Sunday.
 MARY (L+H\*LH%) did too.

Preferred reading: Mary did both things.



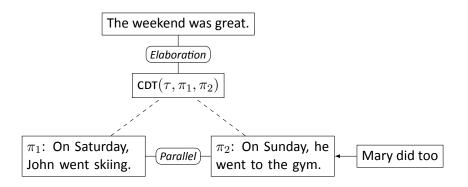




Txurruka (2003) *The natural language conjunction and*. Asher (2004) *Discourse topic*.



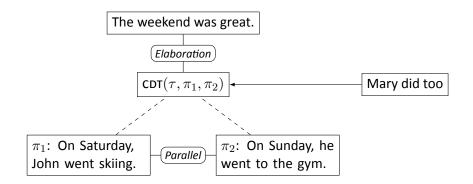




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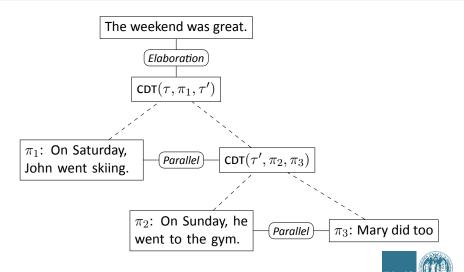






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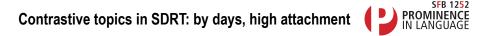


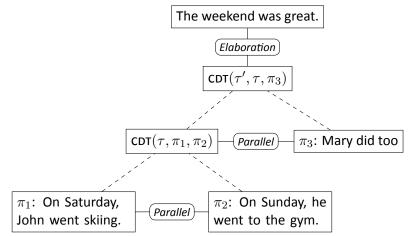


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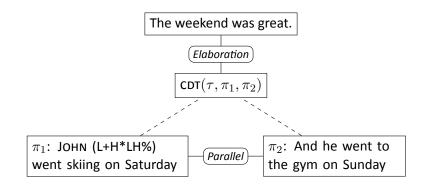






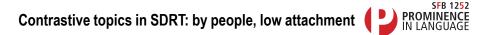


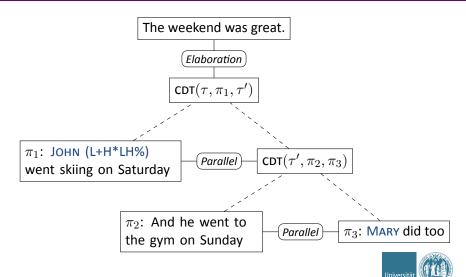




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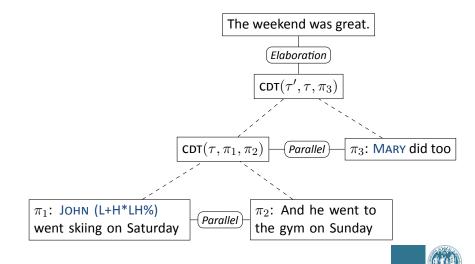




# Contrastive topics in SDRT: by people, high attachment



zu Kö





#### How was the weekend? The weekend was great.





What happened on Saturday?

On Saturday, John went skiing.

#### What happened on Sunday?

...

How was the weekend? The weekend was great.





What happened on Sunday?

On Sunday, he went to the gym.

How was the weekend? The weekend was great.





### What happened on Sunday? On Sunday, he went to the gym. Mary did too.

#### How was the weekend? The weekend was great.





#### How was the weekend? The weekend was great.





What did John do?

JOHN (L+H\*LH%) went skiing

on Saturday.

What did X≠John do?

•••

How was the weekend? The weekend was great.





#### What did John do?

JOHN (L+H\*LH%) went skiing on Saturday. And he went to the gym on Sunday.

#### What did X≠John do?

•••

How was the weekend? The weekend was great.





What did Mary do? MARY (L+H\*LH%) did too.

How was the weekend? The weekend was great.





- What trees can do, stacks can do too.
- Subrodination in relational approaches (SDRT) ≠ subordination in QUD-based approaches, but this can be fixed.
- Discourse relations only look backward.
- QUDs can project discourse structure in the forward direction.





## Thank you!





