

Transition-based dependency parsing

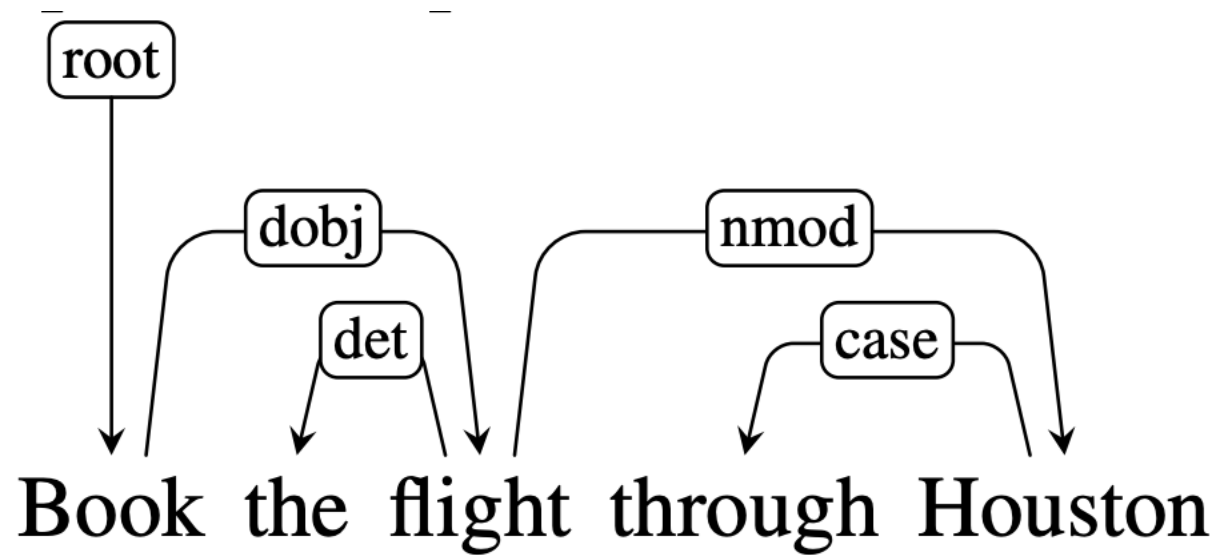
Arc eager

- Kan sette relasjoner tidligere/kjappere enn Arc standard
- Lar ord binde seg til hodet så tidlig som mulig
- Har LeftArc, RightArc og Shift, men også Reduce

Arc Eager Operators

- LeftArc:
 - Angi en hode-dependent relasjon mellom det første ordet på input buffer og ordet på toppen av stacken. Pop stacken.
- RightArc:
 - Angi en hode-dependent relasjon mellom ordet på toppen av stacken og det første ordet på input buffer; shift det første ordet på input buffer over til stacken.
- Shift:
 - Fjern det første ordet på input buffer og legg det over på stacken
- Reduce:
 - Pop stacken.

Prosessering av *Book the flight through Houston* med Arc Eager



Step	Stack	Word List (input buffer)
0	[root]	[book, the, flight, through, Houston]
1	[root, book]	[the, flight, through, Houston]
2	[root, book, the]	[flight, through, Houston]
3	[root, book]	[flight, through, Houston]
4	[root, book, flight]	[through, Houston]
5	[root, book, flight, through]	[Houston]
6	[root, book, flight]	[Houston]
7	[root, book, flight, houston]	[]
8	[root, book, flight]	[]
9	[root, book]	[]
10	[root]	[]

Action	Relation Added
RightArc	(root→book)
Shift	
LeftArc	(the←flight)
RightArc	(book→flight)
Shift	
LeftArc	(through←Houston)
RightArc	(flight→Houston)
Reduce	
Reduce	
Reduce	
Done	

Step	Stack	Word List (input buffer)	Action	Relation Added
0	[root]	[book, the, flight, through, Houston]	RightArc	(root→book)
1	[root, book]	[the, flight, through, Houston]	Shift	
2	[root, book, the]	[flight, through, Houston]	LeftArc	(the←flight)
3	[root, book]	[flight, through, Houston]	RightArc	(book→flight)
4	[root, book, flight]	[through, Houston]	Shift	
5	[root, book, flight, through]	[Houston]	LeftArc	(through←Houston)
6	[root, book, flight]	[Houston]	RightArc	(flight→Houston)
7	[root, book, flight, houston]	[]	Reduce	
8	[root, book, flight]	[]	Reduce	
9	[root, book]	[]	Reduce	
10	[root]	[]	Done	