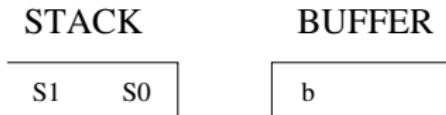


Arc-Hybrid Transition System

Configuration:



Arc-Hybrid Transition System

Configuration:



Arc-Hybrid Transition System

Configuration:



Arc-Hybrid Transition System

Configuration:

STACK

S1	S0
----	----

BUFFER

b

Transitions:

Arc-Hybrid Transition System

Configuration:

STACK

S1	S0
----	----

BUFFER

b

Transitions:

SHIFT

Arc-Hybrid Transition System

Configuration:

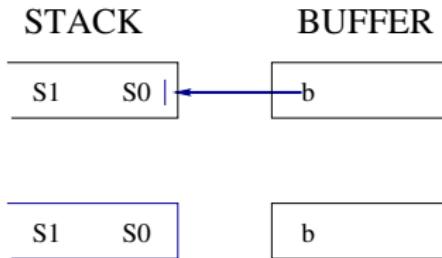


Transitions:

SHIFT

Arc-Hybrid Transition System

Configuration:



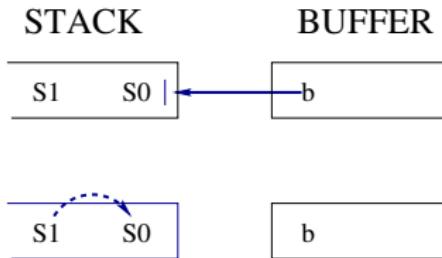
Transitions:

SHIFT

RIGHT-ARC

Arc-Hybrid Transition System

Configuration:



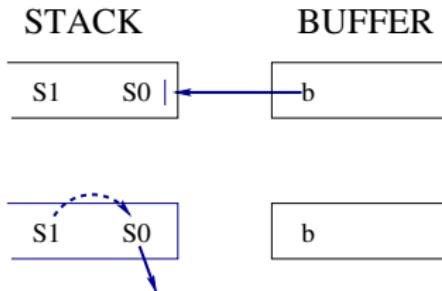
Transitions:

SHIFT

RIGHT-ARC

Arc-Hybrid Transition System

Configuration:



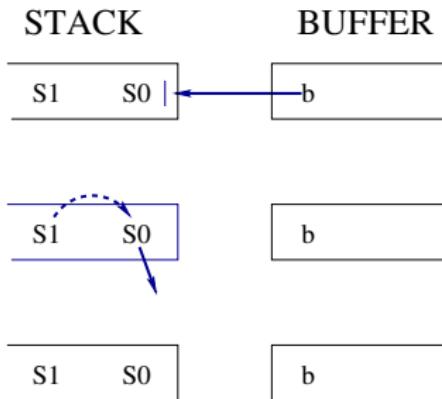
Transitions:

SHIFT

RIGHT-ARC

Arc-Hybrid Transition System

Configuration:



Transitions:

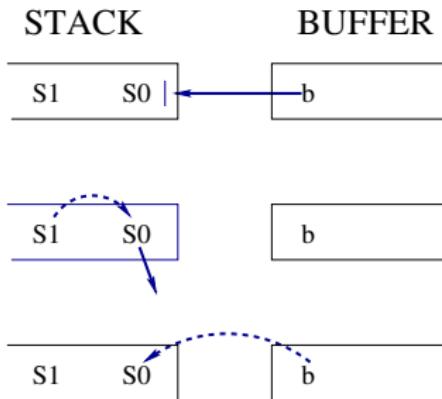
SHIFT

RIGHT-ARC

LEFT-ARC

Arc-Hybrid Transition System

Configuration:



Transitions:

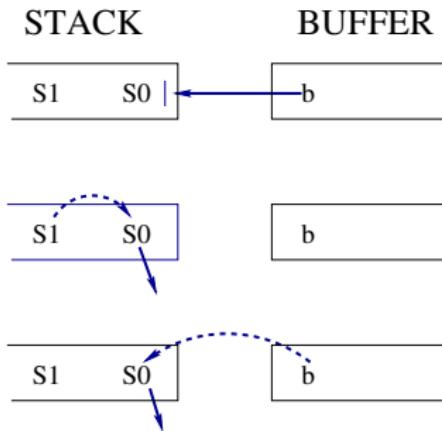
SHIFT

RIGHT-ARC

LEFT-ARC

Arc-Hybrid Transition System

Configuration:



Transitions:

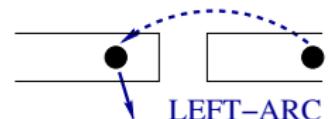
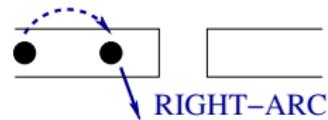
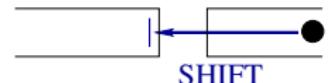
SHIFT

RIGHT-ARC

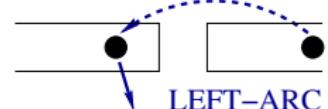
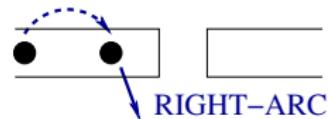
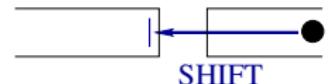
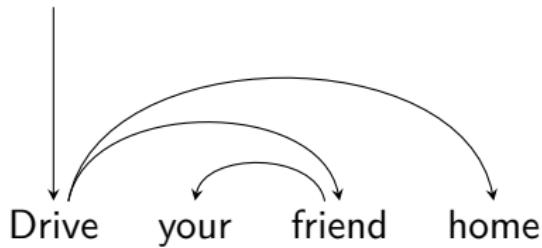
LEFT-ARC

Transition Sequence Example

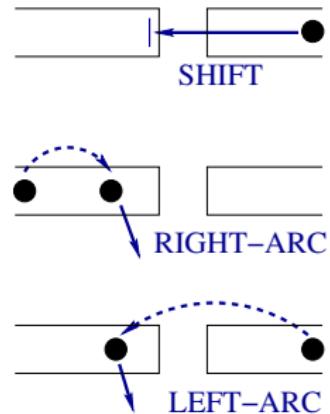
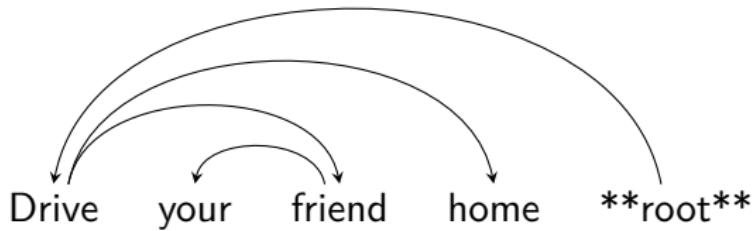
Drive your friend home



Transition Sequence Example

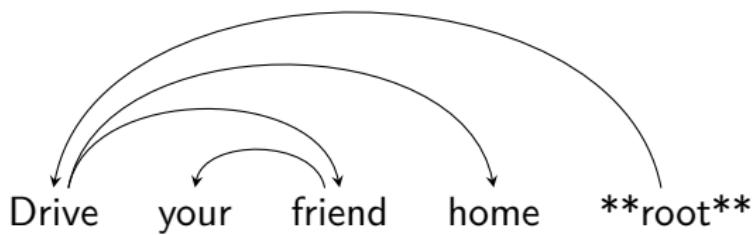


Transition Sequence Example



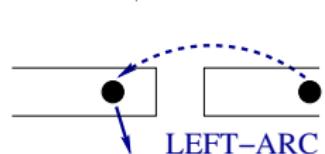
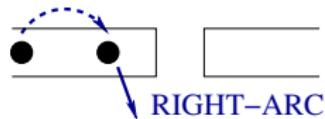
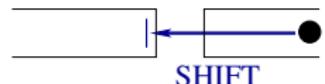
Transition Sequence Example

INITIAL CONFIGURATION



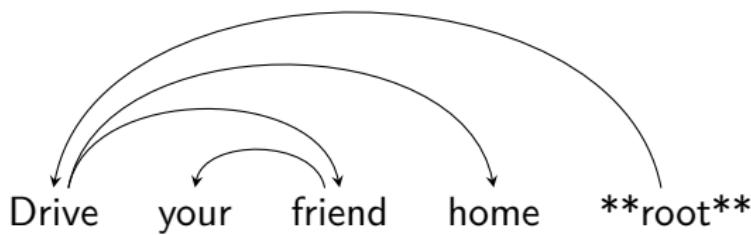
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[Drive your friend home **root**]



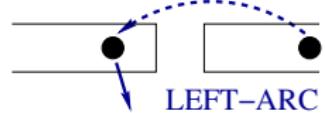
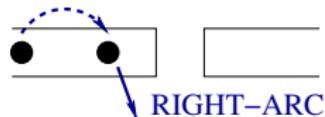
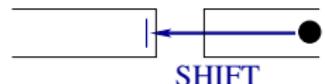
Transition Sequence Example

SHIFT



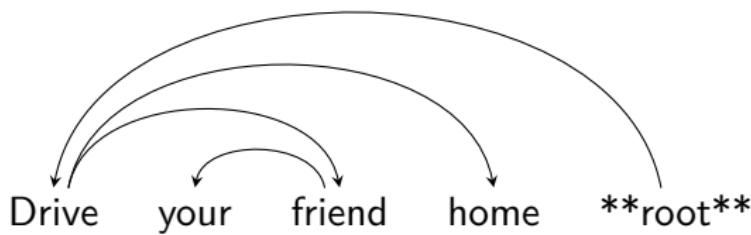
[Drive]

[your friend home **root**]



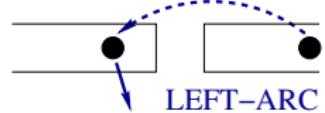
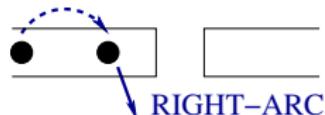
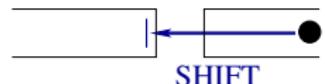
Transition Sequence Example

SHIFT



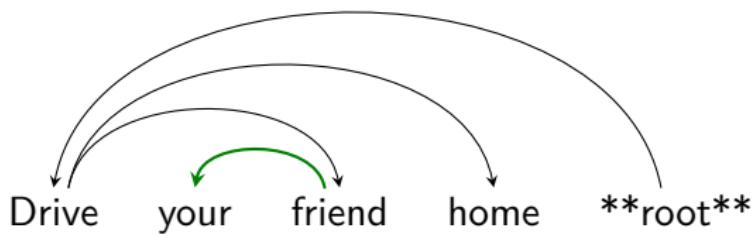
[Drive your]

[friend home **root**]



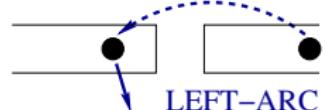
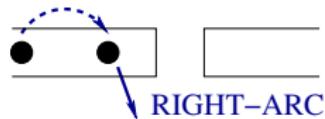
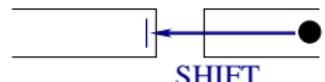
Transition Sequence Example

LEFT-ARC



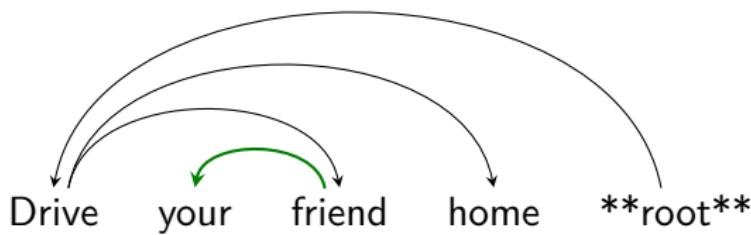
[Drive]

[friend home **root**]

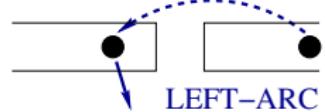
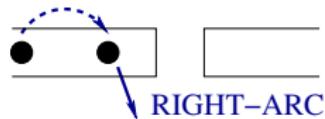
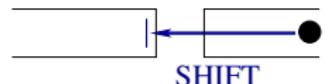


Transition Sequence Example

SHIFT

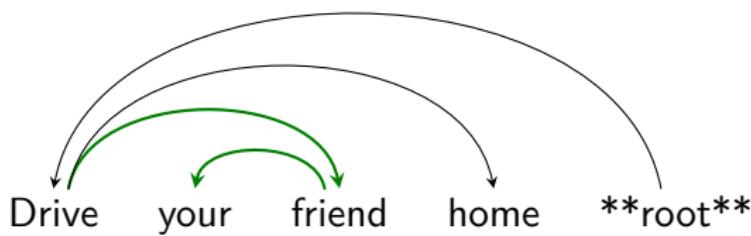


[Drive friend] [home **root**]



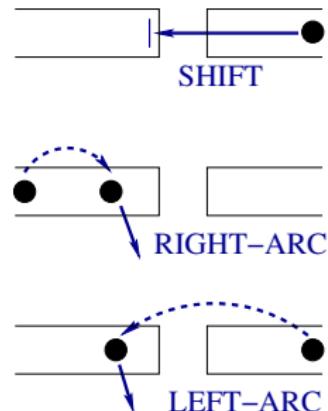
Transition Sequence Example

RIGHT-ARC



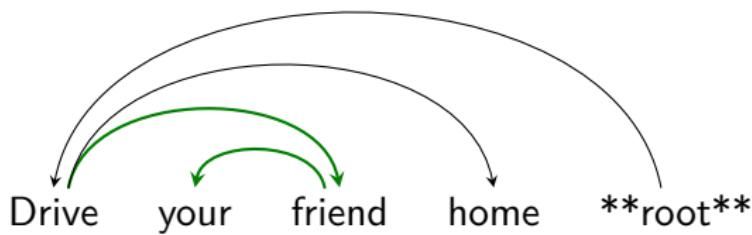
[Drive]

[home **root**]



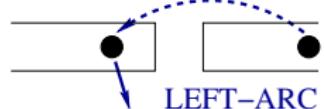
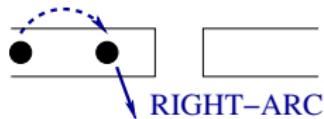
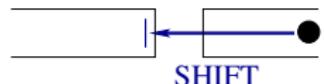
Transition Sequence Example

SHIFT



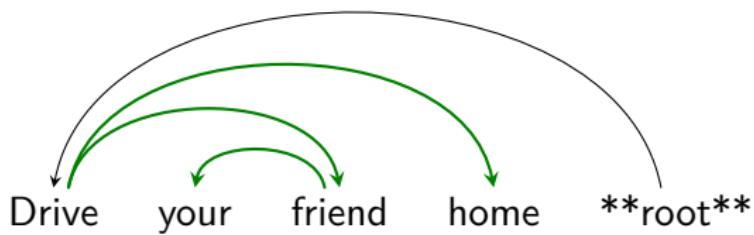
[Drive home]

[**root**]



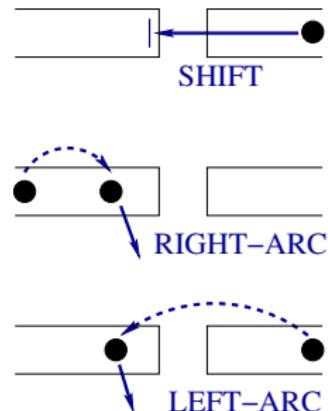
Transition Sequence Example

RIGHT-ARC



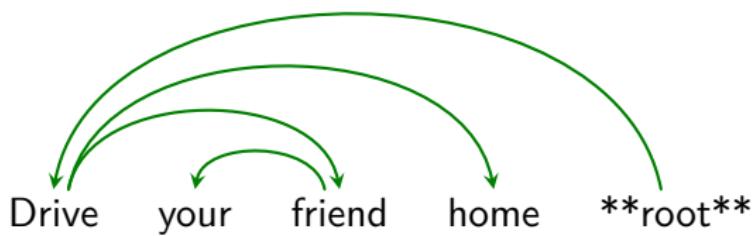
[Drive]

[**root**]



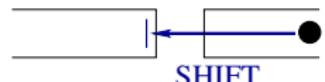
Transition Sequence Example

LEFT-ARC



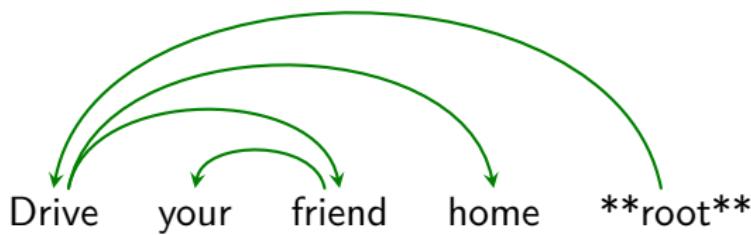
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[**root**]



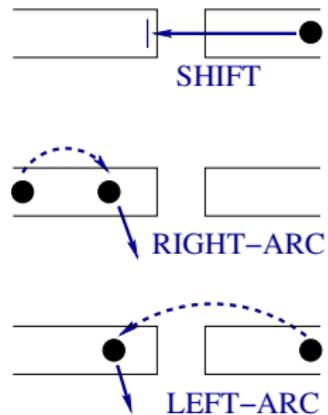
Transition Sequence Example

TERMINAL CONFIGURATION



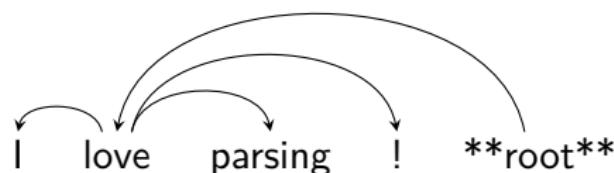
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[**root**]



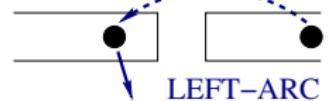
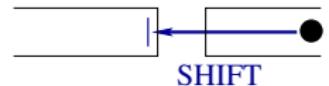
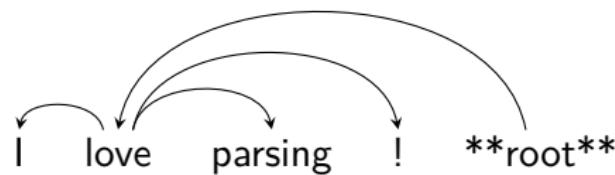
Quiz time!

Goal: figure out the transition sequence for this tree:



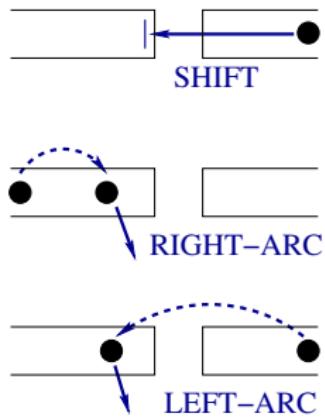
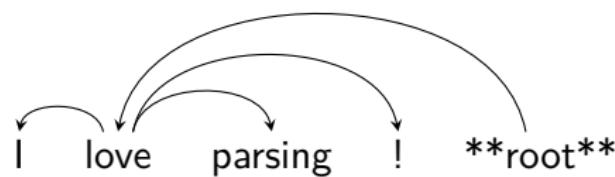
Quiz time!

Goal: figure out the transition sequence for this tree:



Quiz time!

Goal: figure out the transition sequence for this tree:



Go to:

ucph.page.link/tb

References

Marco Kuhlmann, Carlos Gómez-Rodríguez, and Giorgio Satta. 2011. Dynamic programming algorithms for transition-based dependency parsers. In *Proceedings of the 49th Annual Meeting of the Association for Computational Linguistics: Human Language Technologies*, pages 673–682.