Shift-reduce example

Based on these slides by Dávid Nemeskey

The input sentence

Book me the morning flight.

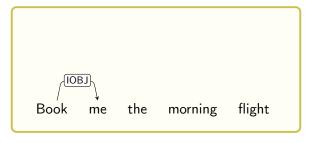
Stack | Buffer | Action

Book me the morning flight

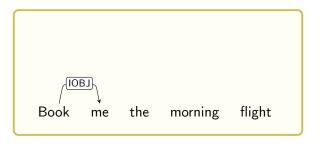
Book me the morning flight

Book me the morning flight

Stack root book, me, the, morning, flight root, book me, the, morning, flight root, book, me the, morning, flight root, book, me the, morning, flight RIGHT ARC



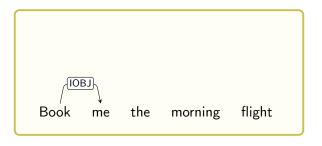
Stack root root, book root, book, me root, book Buffer book, me, the, morning, flight me, the, morning, flight the, morning, flight the, morning, flight Action SHIFT SHIFT RIGHT ARC SHIFT



Stack root, root, book root, book, me root, book, root, book, the Buffer book, me, the, morning, flight me, the, morning, flight the, morning, flight the, morning, flight morning, flight

SHIFT SHIFT RIGHT ARC SHIFT SHIFT

Action

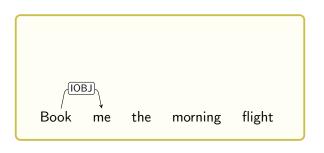


Stack root, root, book, root, book, me root, book root, book, the root, book, the, morning

book, me, the, morning, flight me, the, morning, flight the, morning, flight the, morning, flight morning, flight flight

Buffer

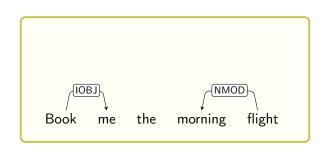
Action SHIFT SHIFT RIGHT ARC SHIFT SHIFT SHIFT



root, book, me root, book, me root, book, the root, book, the, morning root, book, the, morning, flight

Stack

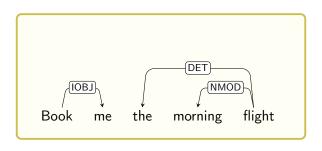
Buffer book, me, the, morning, flight me, the, morning, flight the, morning, flight the, morning, flight morning, flight flight Action SHIFT SHIFT RIGHT ARC SHIFT SHIFT SHIFT LEFT ARC



root, book, me
root, book, me
root, book, the
root, book, the, morning
root, book, the, morning, flight
root, book, the, flight

Stack

Buffer book, me, the, morning, flight me, the, morning, flight the, morning, flight the, morning, flight morning, flight flight Action SHIFT SHIFT RIGHT ARC SHIFT SHIFT SHIFT LEFT ARC LEFT ARC



root root, book root, book, me root, book root, book, the

root, book, the root, book, the, morning root, book, the, morning, flight root, book, the, flight root, book, flight

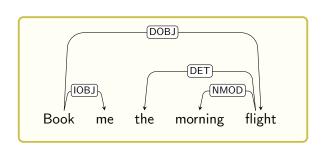
Stack

Buffer
book, me, the, morning, flight
me, the, morning, flight
the, morning, flight
the, morning, flight
morning, flight
flight

SHIFT SHIFT RIGHT ARC SHIFT SHIFT SHIFT LEFT ARC LEFT ARC

RIGHT ARC

Action



Buffer Action Stack book, me, the, morning, flight SHIFT root root. book me, the, morning, flight SHIFT root, book, me the, morning, flight RIGHT ARC **SHIFT** root, book the, morning, flight root, book, the morning, flight SHIFT flight SHIFT root, book, the, morning root, book, the, morning, flight LEFT ARC LEFT ARC root, book, the, flight root, book, flight RIGHT ARC RIGHT ARC root, book

