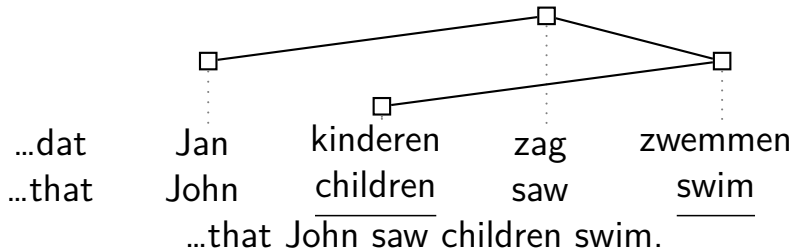


Non-Projectivity

= a gap in a subtree span, filled by a node higher in the tree.

Ex. Dutch “cross-serial” dependencies, a non-projective tree with one gap caused by *saw* within the span of *swim*.



- 0 gaps \Rightarrow projective tree \Rightarrow can be represented in a CFG.
- ≤ 1 gap & “well-nested” \Rightarrow mildly context sensitive (TAG).

See Kuhlmann and Möhl (2007) and Holan et al. (1998).