

"DEPENDENCIES"

THE MAN COMES

THE MEN COME

THE OLD OLD MAN COMES
etc.

THE OLD OLD MEN COME

THE WOMAN SINGS

THE WOMEN SING

THE WOMAN REALLY SINGS

THE WOMEN REALLY SING

THE WOMAN REALLY REALLY SINGS
etc.

THE WOMEN REALLY REALLY SING

These languages are all [finite state]. Some have
dependencies spanning an unlimited number of symbols

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aa bb abba baab aaaa abbaa
etc.

This language is not finite state. The dependencies
are unbounded and [nested] inside a dependency,

there are an unlimited number of nested dependencies

ab aabb aaabb aaabbabb
etc.

This language has the same abstract property as the
preceding one. Both languages are [context free].

aa bb abab baba

aaabab abbabb

This language is obviously not finite state. It is not
even context free. Context free grammars are great at nested
dependencies, but can't handle cross-serial ones.