Hyper-minimization of finite state transducers

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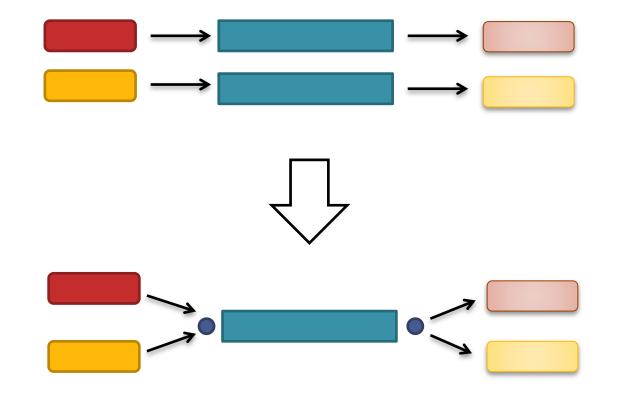


The project

- Huge Greenlandic morphology:
 - Too big to compile on PC
 - Slow
 - Hard to debug
 - Cyclic
- Hyper-minimization ideas:
 - Automatic flag diacritics
 - Division into smaller transducers
 - "lossy" compression



Flag diacritics



Evaluation

- Performance comparison
 - Size
 - Speed
- Accuracy
 - Comparison of analysis results
 - Generation infinite
 - Removing flags mathematical comparison