





















Generate scanner from regular expressions?

- \tt^n This would be ideal: REs as input to a scanner generator, and a scanner as output \tt^n Indeed, some tools can mostly do this
- ⁿ But it's not straightforward to do this
 - One reason: there is a lot of non-determinism choice — inherent in most regular expressions
 - ⁿ Choice can be implemented using backtracking, but it's generally very inefficient
- ${\tt n}\,$ In any case, these tools go through a process like the one we'll look at





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- The second approach is used in the PL/0 compiler
 - Because it's generally easier to handle a few practical issues (but may be slower?)

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