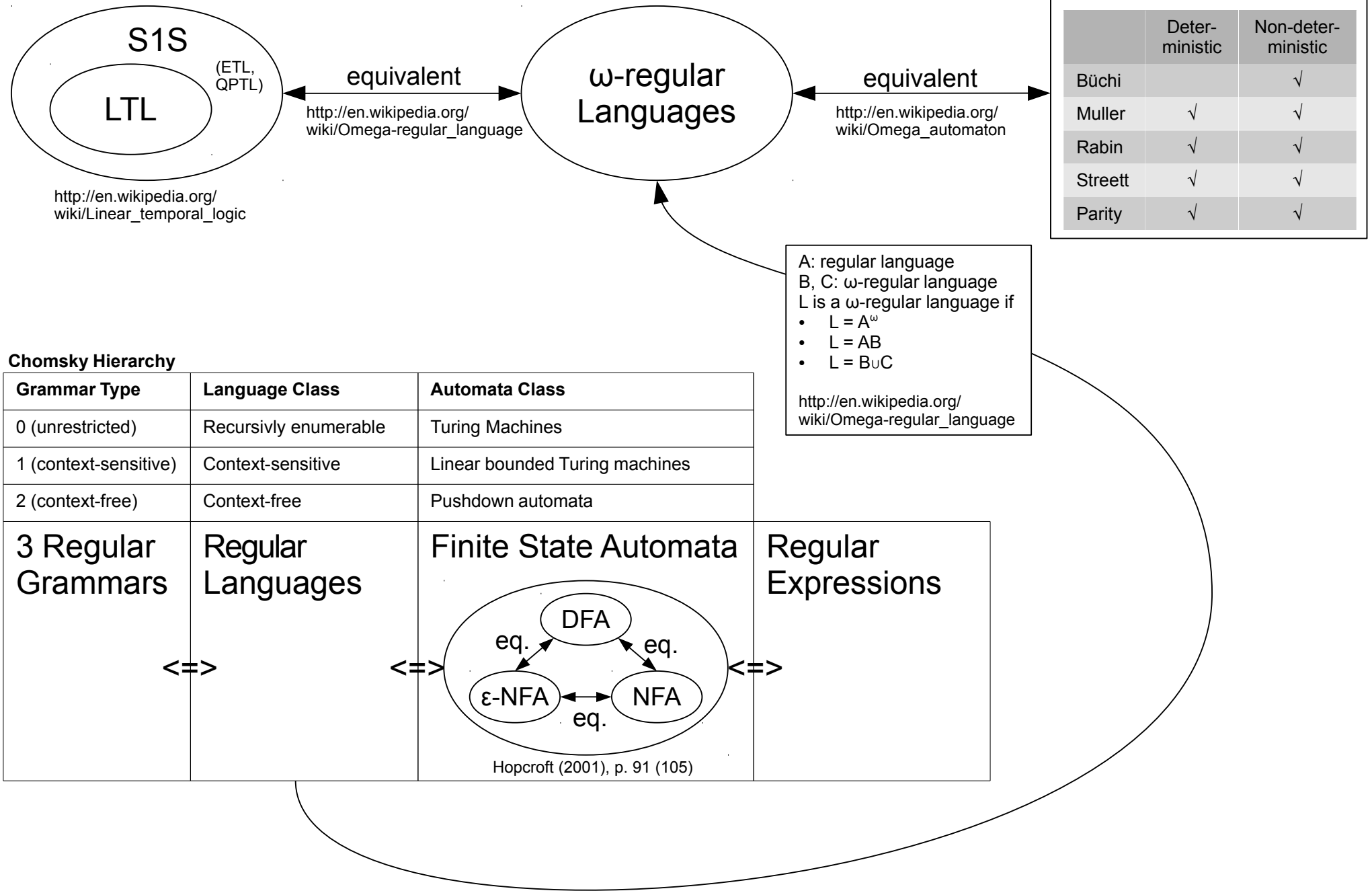
S1S
(ETL, QPTL)
LTL
http://en.wikipedia.org/ wiki/Linear_temporal_logic
equivalent
http://en.wikipedia.org/ wiki/Omega-regular_language
ω-regular Languages
equivalent
http://en.wikipedia.org/ wiki/Omega_automaton
ω-Automata
Deter-ministic
Non-deter-ministic
Büchi
Muller
Rabin
Streett
Parity
A: regular language
B, C: ω-regular language
L is a ω-regular language if
• L = A^ω
• L = AB
• L = B∪C
http://en.wikipedia.org/ wiki/Omega-regular_language
Chomsky Hierarchy
Grammar Type
Language Class
Automata Class
0 (unrestricted)
Recursivly enumerable
Turing Machines
1 (context-sensitive)
Context-sensitive
Linear bounded Turing machines
2 (context-free)
Context-free
Pushdown automata
3 Regular Grammars
<=>
Regular Languages
<=>
Finite State Automata
DFA
eq.
eq.
ε-NFA
NFA
eq.
Hopcroft (2001), p. 91 (105)
<=>
Regular Expressions