CS 512, Spring 2018, Handout 11
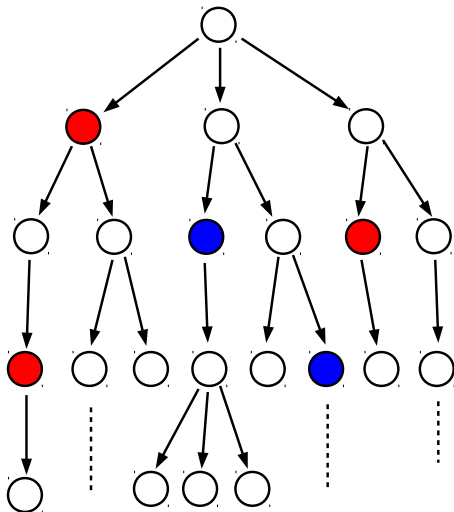
Visualization of Behavior of
Temporal Connectives in CTL

Assaf Kfoury

15 February 2018

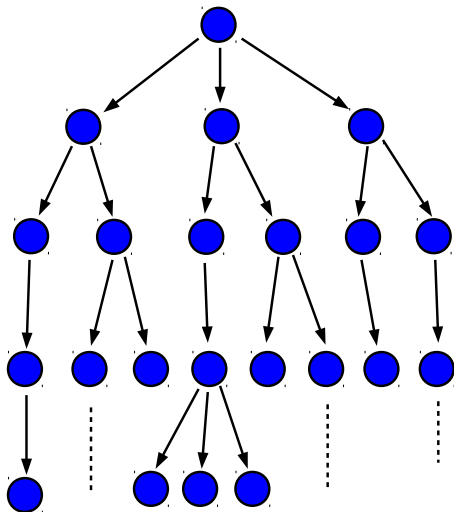# visualization of behavior of temporal connectives in CTL

- ► propositional atom p true at **blue** nodes
- ► propositional atom q true at **red** nodes
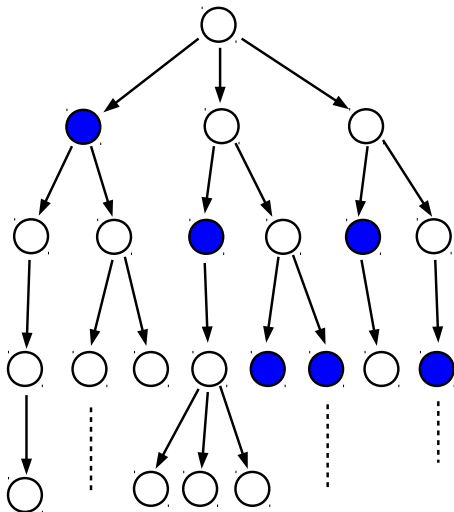
$\forall \Box \, p$
is satisfied by the state of
the root node

visualization of behavior of temporal connectives in CTL
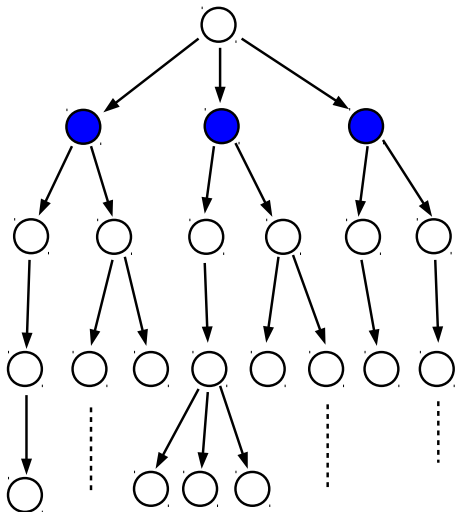
$\forall \Diamond p$

is satisfied by the state of
the root node

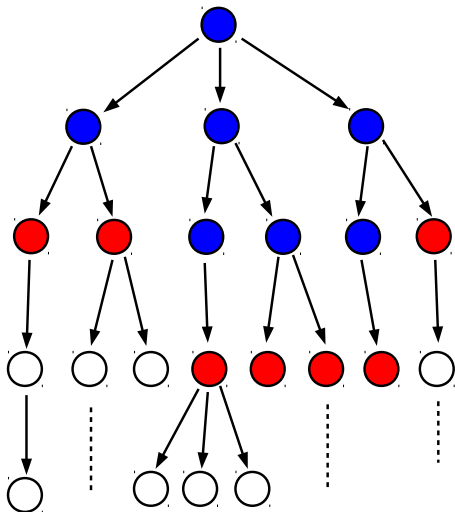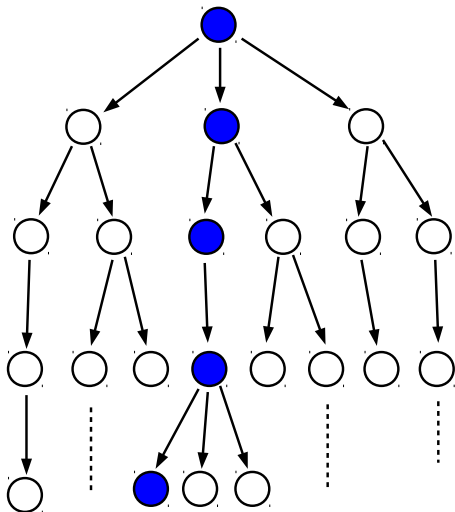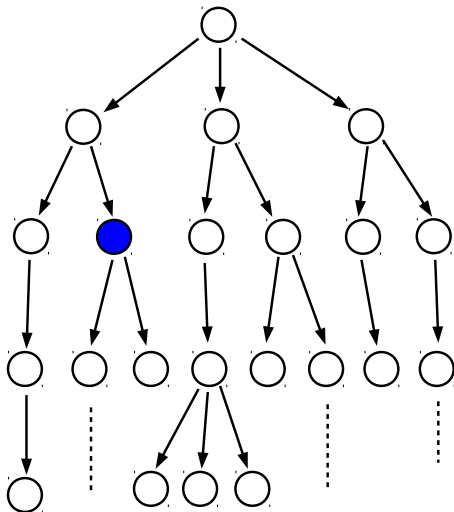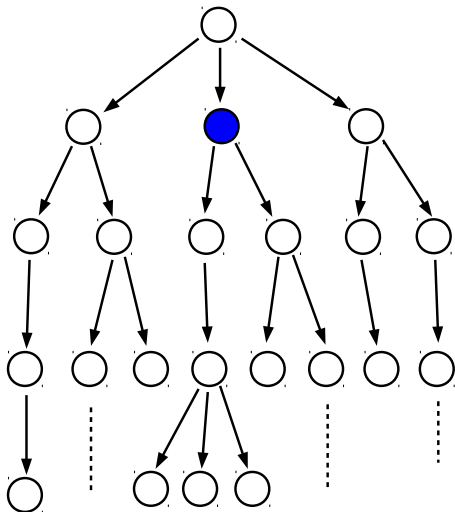# visualization of behavior of temporal connectives in CTL

$\forall \bigcirc p$

is satisfied by the state of
the root node

$\forall(p \ \mathbb{U} \ q)$

is satisfied by the state of
the root node

$\exists\Box\,p$

is satisfied by the state of
the root node

$\exists \Diamond\, p$

is satisfied by the state of
the root node

∃○ p

is satisfied by the state of
the root node

visualization of behavior of temporal connectives in CTL

$\exists(p \; \underline{\cup} \; q)$
is satisfied by the state of
the root node

visualization of behavior of temporal connectives in CTL
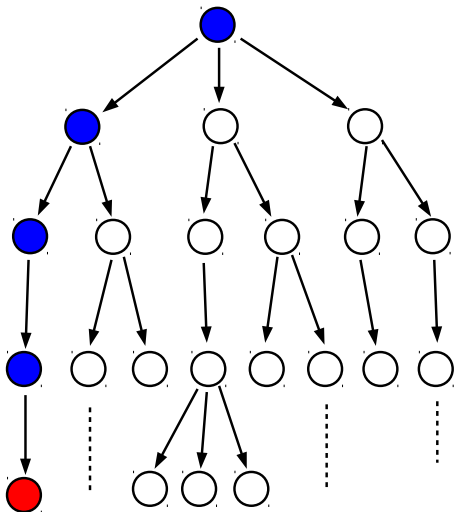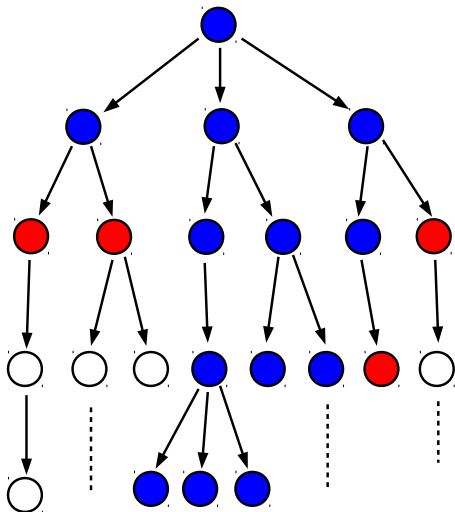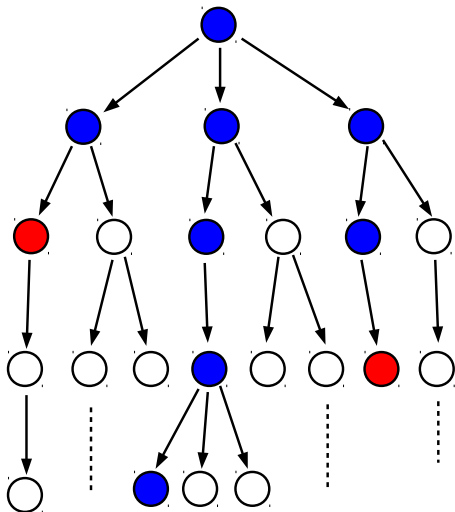
$\forall (p \,\mathsf{W}\, q)$
is satisfied by the state of
the root node

visualization of behavior of temporal connectives in CTL

$\exists(p\,\mathsf{W}\,q)$
is satisfied by the state of
the root node

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