femporal Logic

<u>Always</u>, if an obstacle is hit, then, in the <u>neXt</u> step, turn left: $G(obs \implies X \ left)$

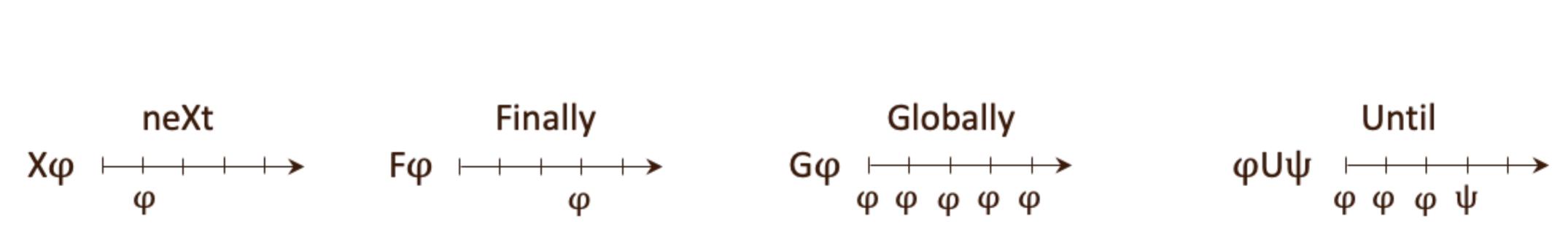
Propositions

- p, q, r: True or False

- (Representing system events)

Boolean Operators

```
\land (and) \lor (or) \neg(neg) \Longrightarrow (implies)
```



Temporal Operators

Linear Temporal Logic (LTL)

Temporal Logic

Linear Temporal Logic (LTL)

Propositions

p,q,r: True or False (Representing system events)

Boolean Operators

$$\land$$
 (and) \lor (or) \neg (neg) \Longrightarrow (implies)

Temporal Operators



Always, if an obstacle is hit, then, in the **neXt** step, turn left: $G(obs \implies X \ left)$

Temporal Logic

Metric Temporal Logic (MTL)

Propositions

p, q, r: True or False (Representing system events)

Boolean Operators

$$\land$$
 (and) \lor (or) \neg (neg) \Longrightarrow (implies)

Timed Temporal Operators