Tim ing Example Circuit: Algutes have some delay be five the output responds to the imput. Called Propugation delay erTpd Propogetion delay when Tpd HL Tpd LH going Low -> High Propogation delay when going High -> Low

Comhinational
civcuits can only
vespend to the convent
state of inputs

However, they cannot do any thing in response to what has huppened in the pussed.

They connot store duta

We need a way to stare donter so circuits can change seharive bused on what has huppend in the past. Sume circuit
avour diffently

If we wive two not got as together, they will become stable and hold a value of X foreven We have no way to tell what that value of x will be.

If we mumenturily shout the X wire to Va, we an set the value of x to 1, and it will stay there.

If we mumenturily shout the x wire to ground, we can set x to O, and it will stay there.

