

Cycling : The Standard Example

	voter #1	voter #2	voter #3
first choice	x	y	z
second choice	y	z	x
third choice	z	x	y

A Condorcet Winner

some policy is called a **Condorcet winner** if it defeats **every** other (single) policy in a (two–contestant) vote

ie : if there are 4 alternatives : **w**, **x**, **y** , **z**, then alternative **w** is a Condorcet winner if at least half the voters prefer **w** to **x**, **and** at least half the voters prefer **w** to **y** **and** at least half the voters prefer **w** to **z**

so none of the 3 alternatives **x**, **y** , **z** is a Condorcet winner in the standard example of cycling (on the previous page)

another example

voter #1	voter #2	voter #3	voter #4	voter #5
x	y	z	w	x
y	w	w	z	w
w	x	y	x	z
z	z	x	y	y

in this example **w** is a Condorcet winner