Graph-Theoretic Property: *atis*ReceivingConnectedComponentsSet

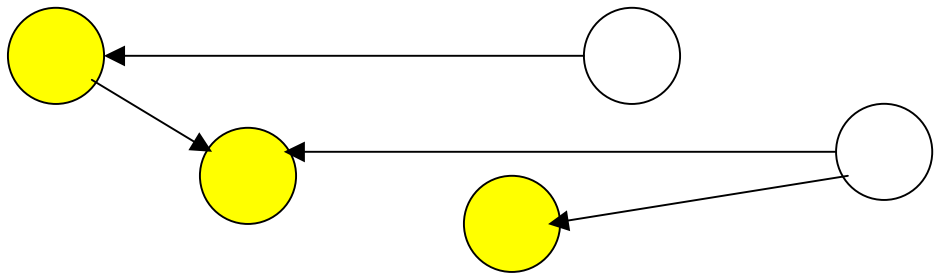
(Graph-theoretic properties are those properties that are part of the meta-theory and have been abducted from graph theory to be used as a tool to provide solutions concerning the theory. Those solutions may be assigned as values to components or relations of the theory and thereby become part of the theory.)

Receiving connected components set, $_{R}\mathscr{C}$, $=_{df}$ a set of components that have path-connections to them from other components.

$$_{R}\mathscr{C} =_{df} \mathfrak{X} = \{\mathfrak{y} | \mathfrak{y} \in \mathfrak{R} \subset \mathfrak{S}_0 \wedge \exists \mathfrak{x} \in \mathfrak{S}_0 (\mathfrak{x} \neq \mathfrak{y} \wedge (\mathfrak{x},\mathfrak{y}) \in_{pc} \boldsymbol{E})\}$$

Receiving connected components set is a set of components, $\mathfrak{y}$; such that, the components, $\mathfrak{y}$, are in a subset of the object-set, and there exist distinct components, $\mathfrak{x}$, of the system object-set such that $(\mathfrak{y},\mathfrak{x})$ are path-connected.

Receiving Connected Components Set



The "yellow" components are in the receiving connected components set.