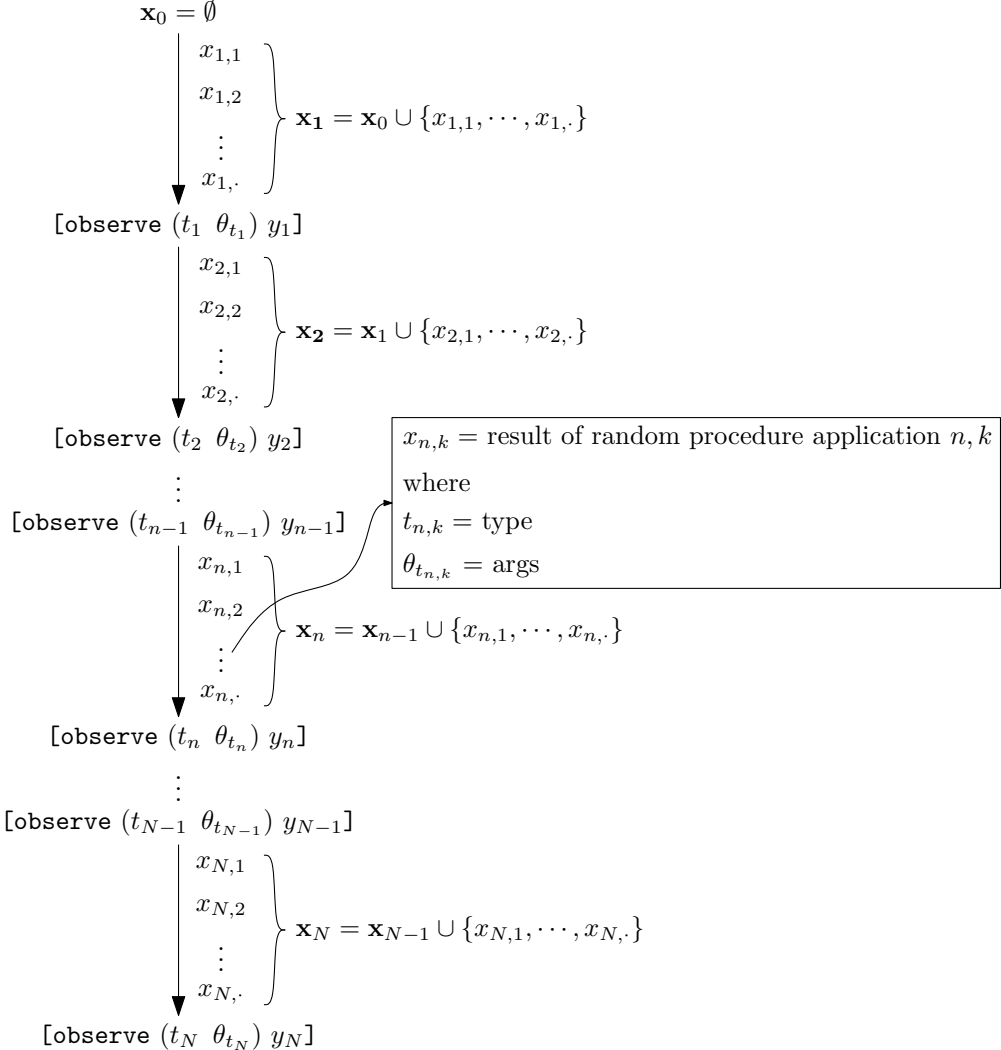
$\mathbf{x}_0 = \emptyset$
$x_{1,1}$
$x_{1,2}$
$x_{1,\cdot}$
$\mathbf{x_1} = \mathbf{x}_0 \cup \{x_{1,1}, \cdots, x_{1,\cdot}\}$
[observe $(t_1\ \ \theta_{t_1})\ y_1$]
$x_{2,1}$
$x_{2,2}$
$x_{2,\cdot}$
$\mathbf{x_2} = \mathbf{x}_1 \cup \{x_{2,1}, \cdots, x_{2,\cdot}\}$
[observe $(t_2\ \ \theta_{t_2})\ y_2$]
[observe $(t_{n-1}\ \ \theta_{t_{n-1}})\ y_{n-1}$]
$x_{n,1}$
$x_{n,2}$
$x_{n,\cdot}$
$\mathbf{x}_n = \mathbf{x}_{n-1} \cup \{x_{n,1}, \cdots, x_{n,\cdot}\}$
$x_{n,k}$ = result of random procedure application n, k
where
$t_{n,k}$ = type
$\theta_{t_{n,k}}$ = args
[observe $(t_n\ \ \theta_{t_n})\ y_n$]
[observe $(t_{N-1}\ \ \theta_{t_{N-1}})\ y_{N-1}$]
$x_{N,1}$
$x_{N,2}$
$x_{N,\cdot}$
$\mathbf{x}_N = \mathbf{x}_{N-1} \cup \{x_{N,1}, \cdots, x_{N,\cdot}\}$
[observe $(t_N\ \ \theta_{t_N})\ y_N$]