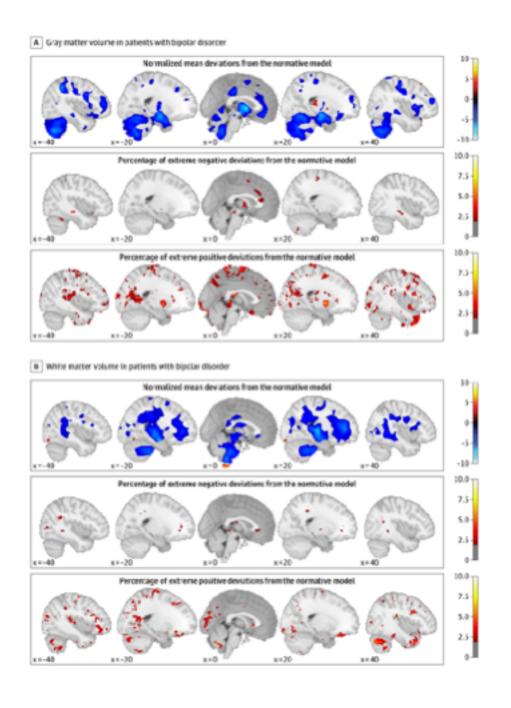
## What kind of system?



"The idea of the average patient is a noninformative construct in psychiatry that falls apart when mapping abnormalities at the level of the individual patient"

Wolfers, T., Doan, N. T., Kaufmann, T., Alnaes, D., Moberget, T., Agartz, I., . . . Marquand, A. F. (2018). Mapping the Heterogeneous Phenotype of Schizophrenia and Bipolar Disorder Using Normative Models. *JAMA Psychiatry, 75*(11), 1146-1155. doi:10.1001/jamapsychiatry.2018.2467

## What kind of system?

## 1. Non-ergodic

(non-stationarity of level & trend of central moments, non-homogeneous fluctuations/variance)

## 2. No memorylessness property

(after-effects of interactions with internal and external environment: long-range dependence, anomalous diffusion)