This is an ongoing project on the visualisation of a real-time implementation of Xenakis's GENDYN, or its “audiovisualisation”. It aims to be functional both didactically – in depicting the processes behind dynamic stochastic synthesis – and aesthetically – in complementing the sounds produced so that it is suitable for use in an artistic context. The merits of the simultaneous visualisation and sonification of an abstract process such as Xenakis’ dynamic stochastic synthesis are introduced. The schemes used in the visualisation are then explained, and properties of GENDYN which become more apparent are discussed.