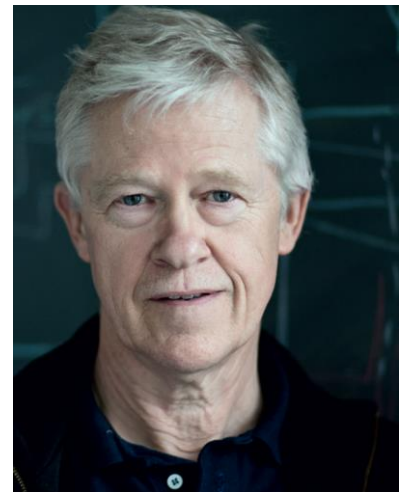


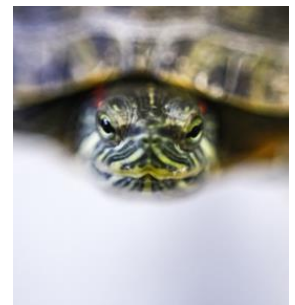
Making sense and non-sense of neurons in networks

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Initiation of animal behavior by sensory stimuli has intrigued philosophers and scientists since antiquity, but the underlying neural mechanisms have only recently become accessible for scientific enquiry. Most interesting vertebrate behaviors involve interactions of millions of neurons often distributed in several brain regions. For this reason, the main neurobiological approach to behavior still focuses on mapping which brain regions are involved and how unit activity correlates with performance. But how does large scale functional network activity emerge from simple sensory stimuli? And what is the relation between the properties and activity of individual neurons and their role in the functional network activity underlying behavior? I will illuminate these questions by the lessons learnt from scratching turtles.



Wednesday August 26th 2015 at 11.30
Room 127 (zoofys kaffestue), building 1131