

About us

The Laboratory for Perceptual Dynamics (PDL) takes a 'complex systems' view with respect to visual awareness. In this view, ongoing internal processes in the brain prepare it for the experience of objects, textures, and shapes. These processes are necessary, but not sufficient for visual awareness. To become aware, they need to function in a wider context including, of course, visual stimulation, but also the actions of the system, ranging from eye-movements to the active exploration of the environment, as well as the history of prior experience and development. The ultimate context for these processes is the evolution of our species. The laboratory is achieving its aims through a combination of perceptual psychophysics, psychophysiology, and computational modeling. Researchers from various disciplines (ranging from cognitive psychology to applied mathematicians) are working together to unravel the temporal structure of visual experience and its neural underpinning.

Lab History

Initiated and headed by Cees van Leeuwen, [PDL](#) was established in its first incarnation in 2001 as a research laboratory of the [RIKEN Brain Science Institute](#) and has remained in existence

Search...

PDL Links

- [Demonstrations of Perceptual Organization \(lightness\)](#)
- [Sensory Nervous System and the Special Senses](#)
- [The Whole Brain Atlas](#)
- [Tutorials in Sensation and Perception](#)

PDL Supported Journals

- [Cognitive Neurodynam](#)
- [Cognitive Processing](#)
- [Journal of Vision](#)
- [Philosophical Psycholo](#)

PDL Special Issue Features

- [Royal Society Publishing](#)

PDL Supported Societies