

PSYC305 Applied Cognition & Neuroscience Mātai hinengaro whaipainga

## Lecture 4: Road Transport: Vision and Navigation

## **Topics:**

- 1. Motion perception \*
- 2. Human visual navigation \*
- \* Background information for answering questions such as:





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- 1. Motion Perception (Partial review of PSYC226 material).
  - •The information provided by movement
  - •Illusions of movement
  - Neurons that respond to motion
  - Background Reading: Chapter 8, 9. Goldstein Textbook (6th Edition)











## The information provided by movement (continued)

(4) Movement provides information that enables us to interact with the environment.



As we walk, drive or fly (see later video clips), the movement of elements of the environment provides information that keeps us on course and helps us avoid bumping into things (most of the time!)

## **Illusions of Movement**

The study of motion perception is complex because ...

•Movement aftereffects (e.g., the waterfall illusion)

(+see rotating dots demonstration)















































































