

# **Learning Objectives**

- Differentiate between monocular and binocular diplopia
- Identify common causes of double vision
- Understand basic prism physics



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# What is diplopia?



• Double vision, seeing two of the same objects simultaneously







• Binocular diplopia vs monocular – how to differentiate?



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Monocu	ıaı və	DILIOCU	ıaı :



· Take turns covering each eye!







- Binocular diplopia double vision resolves by covering either eye
- Monocular diplopia double vision resolves when the affected eye

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### Monocular Diplopia

- Diagnostic clue: double vision persists with one eye closed
- Common causes:

  - -Refractive error – Cornea – dry eye 🖭 🗲
  - -Lens
- Retina
- Treatment: PFATS, glasses, contact lenses, surgical intervention of affected eye
- I.e. not neuro-ophthalmology problem!



CASEY EYE

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#### Binocular Diplopia

- - Oculomotor, trochlear, abducens
    Infranuclear
    CN lesions in the cavernous sinus, muscular and
- neuromuscular junction
   Treatment: varies depending on cause



CASEY EYE

### CC: "I'm seeing double."

• How do you begin to approach this patient?

# CC: "I'm seeing double."

- History is KEY!
  - Monocular vs binocular
  - Direction
  - Duration - Location

  - Associated symptoms
  - History of eye turn or abnormal head position





















