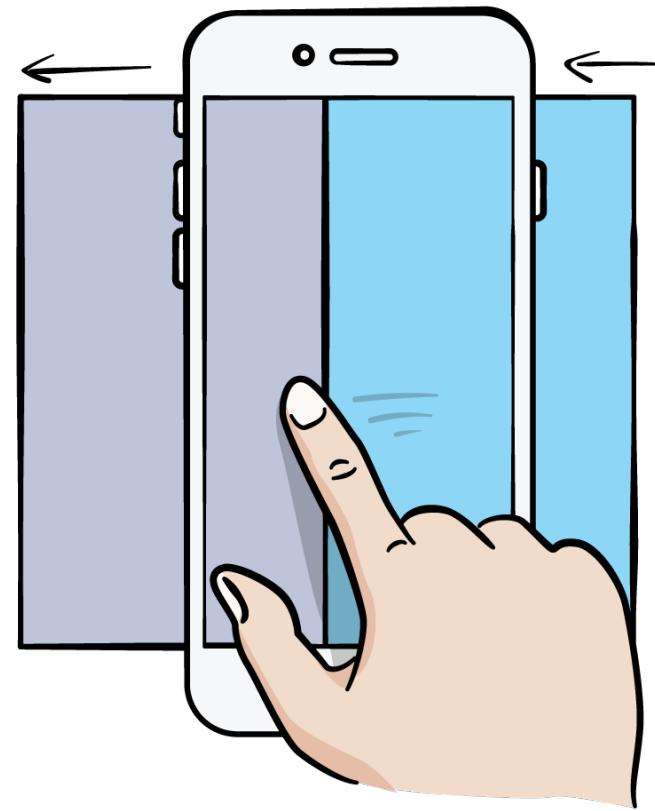
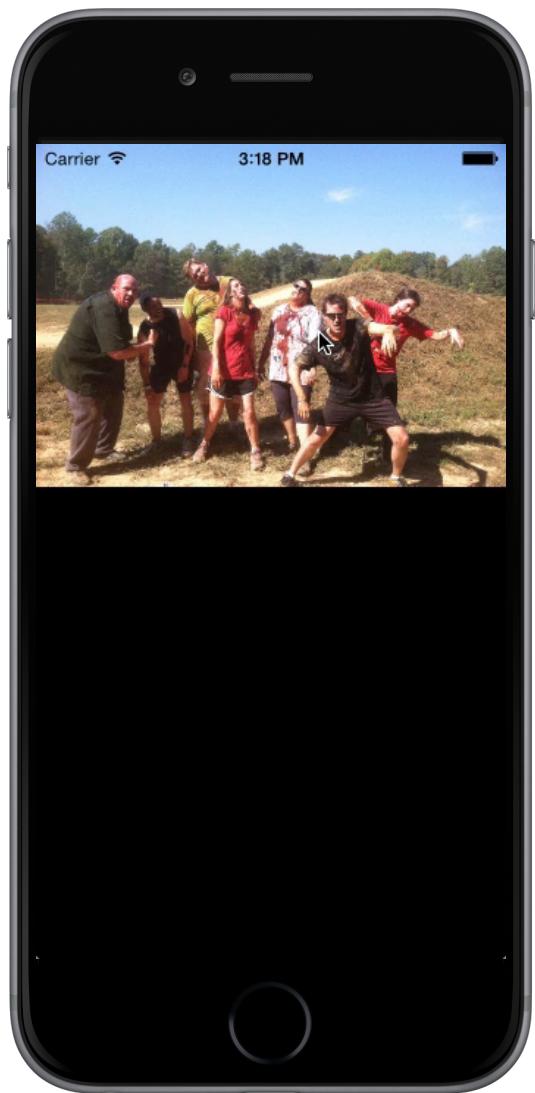


# SCROLL VIEW SCHOOL



PART #4: ZOOMING



# ZOOMING IN UISCROLLVIEWDELEGATE

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- ⚙️ **Zoom support**
  - ⚙️ `viewForZoomingInScrollView:`
- ⚙️ **Whenever zoom changes**
  - ⚙️ `scrollViewDidZoom:`
- ⚙️ **Fine-grained notifications**
  - ⚙️ `scrollViewWillBeginZooming:`
  - ⚙️ `scrollViewDidEndZooming:`



# How ZOOMING WORKS

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Scale: 100%



Scale: 50%

**image view frame:** (0, 0, 1296, 968)  
**image view bounds:** (0, 0, 2592, 1936)



# ASPECT FIT ZOOM SCALES

---

image width  
2,592

x ratio  
??? = scroll view width  
320



ratio = scroll view width / image width



# ASPECT FIT ZOOM SCALES

---



width ratio  
 $320 / 1128$   
 $= 0.28$



height ratio  
 $568 / 2592$   
 $= 0.21$



# DEMO

---



# CHALLENGE TIME

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