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## PSY 310: Sensory and Perceptual Processes

## Miracle fruit

- There is also a plant native to West Africa that interacts with taste receptors
- After eating the berries, sour foods taste sweet
- How it does this is unknown, but it changes the responses of
- neural fibers
  Fibers that usually respond
- to sweet things will respond to sour things Lasts about an hour



Taste mixtures
 Usually we do not ingest a single kind of chemical
 Most foods contain many different chemicals that are mixed

- It is possible to mask one taste with another
- Taste suppression: add sugar to coffee to mask the bitterness of the coffee
- In vision a mixture of two colors can lead to an entirely different perceptual experience
- Red and green lights look yellow

together

- In audition a mixture of two tones does not lead to a new perceptual experience
  - Two tones played together sounds like two tones

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## **Taste mixtures**

- Taste is more complicated
- Lemon juice with sugar can taste both sour and sweet
   It never tastes salty
- This is more like audition, where individual tastes remain
- At the same time, some combinations of stimuli produce unexpected tastes
- Part of the problem is that variability across people make it difficult to compare responses from different people
- Moreover, most people are more aware of flavor than taste







