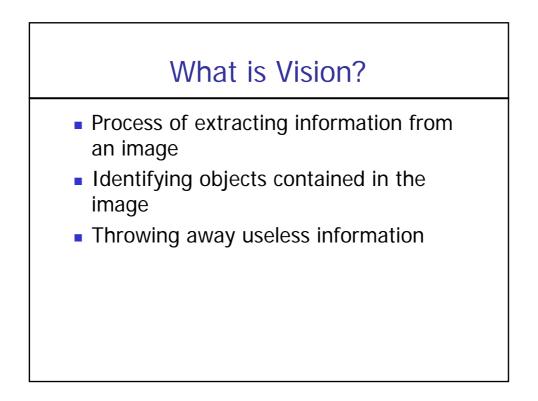
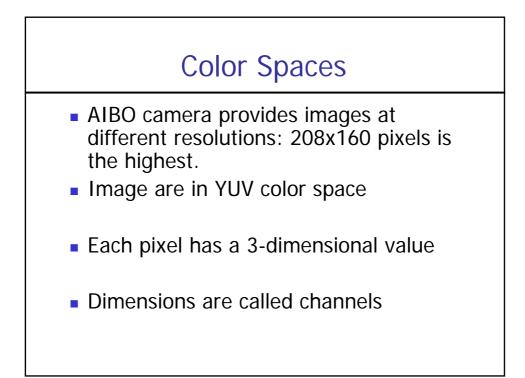
Visione negli AIBO

Slide tratte in parte dal materiale in rete di Manuela Veloso & Paul E. Rybski http://www.andrew.cmu.edu/course/15-491 Computer Science Department Carnegie Mellon

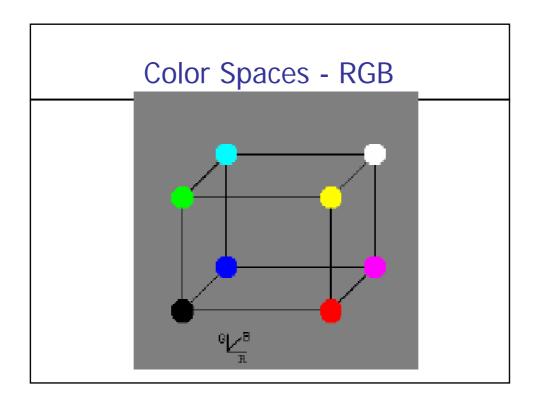
e di:

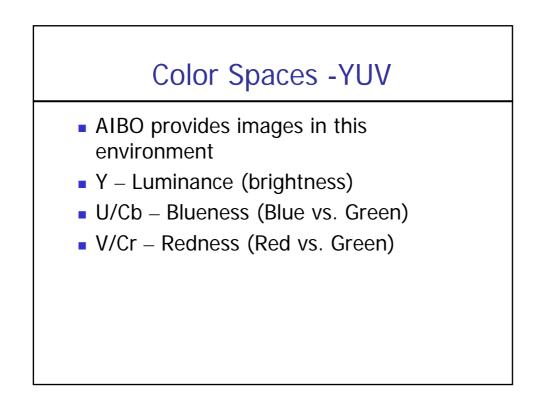
Rob Salkin & Russell Goldstein

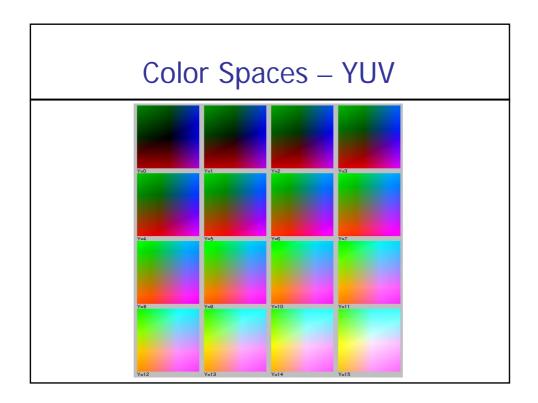


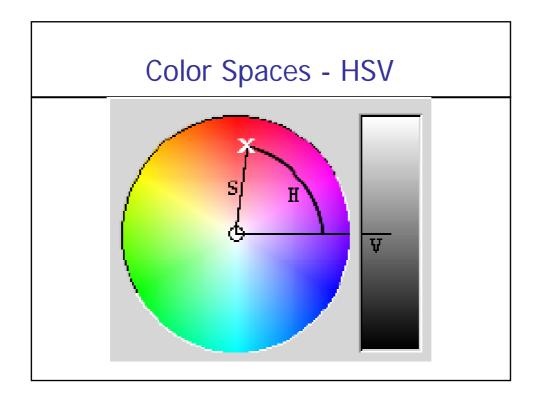






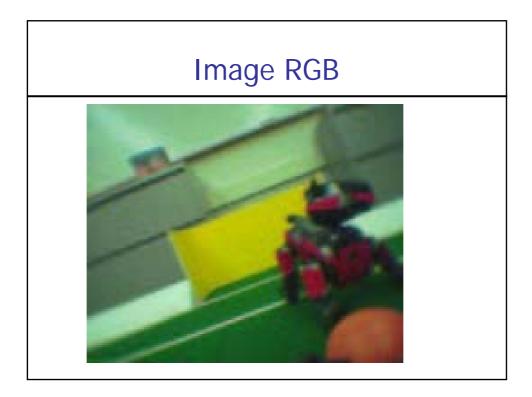


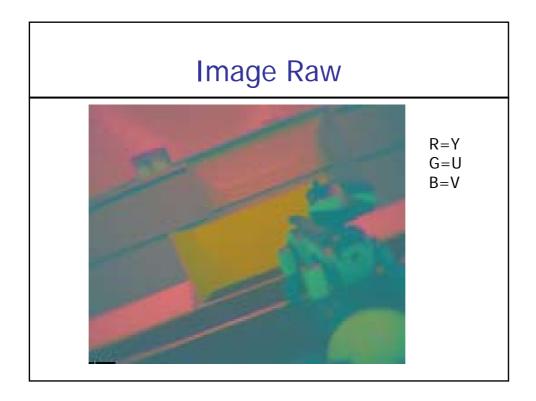


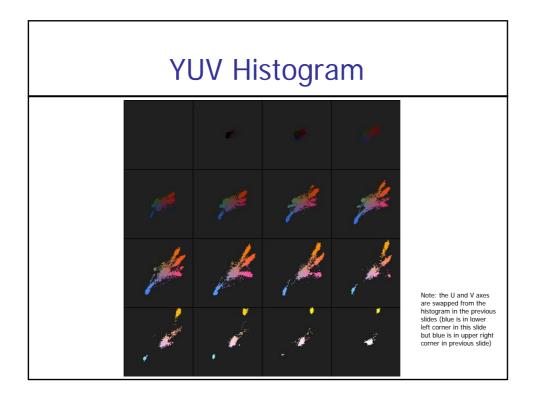


Color Spaces - Discussion

- RGB
 - Handled by most capture cards
 - Used by computer monitors
 - Not easily separable channels
- YUV
 - Handled by most capture cards
 - Used by TVs and JPEG images
 - Easily workable color space
- HSV
 - Rarely used in capture cards
 - Numerically unstable for grayscale pixels
 - Computationally expensive to calculate

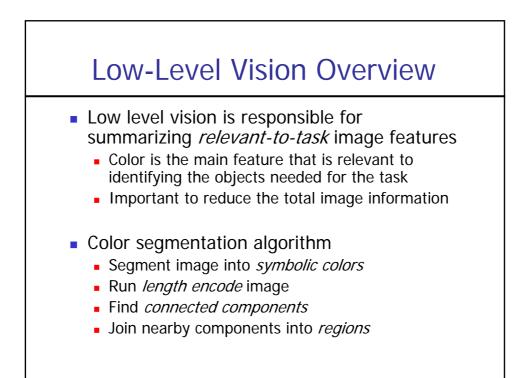


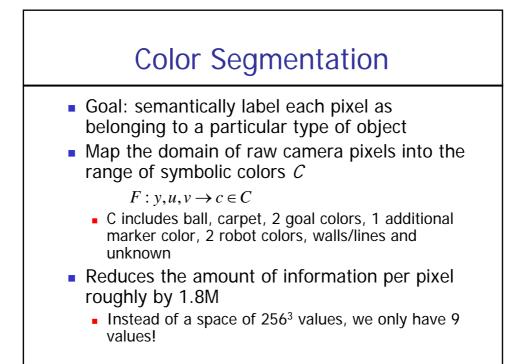




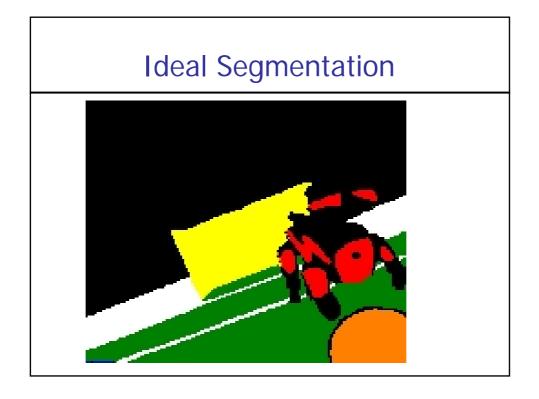
Vision Overview

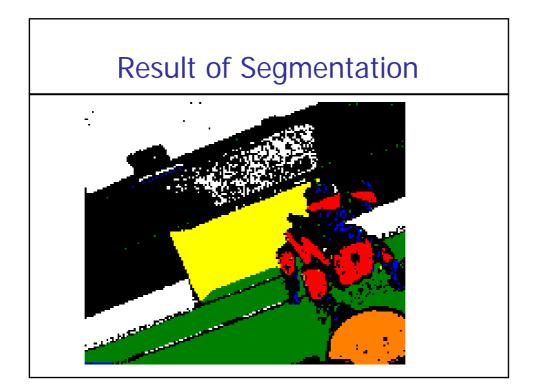
- CMRoboBits vision is divided into two parts
- Low level
 - Handles bottom-up processing of image
 - Provides summaries of image features
- High level
 - Performs top-down processing of image
 - Uses object models to filter low-level vision data
 - Identifies objects
 - Returns properties for those objects



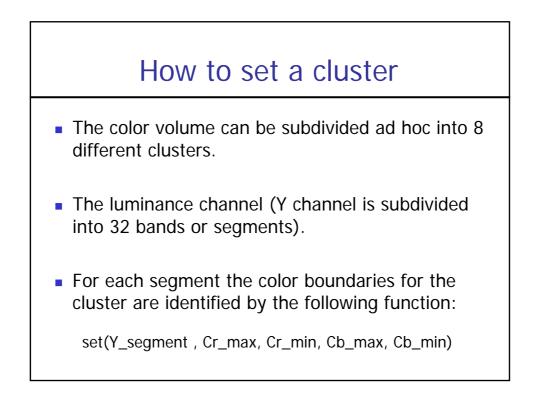












Potential Problems with Color Segmentation

