ECE 6310 Introduction to Computer Vision

Fall 2020

Lab 4 – Region Interaction

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- **Pictures showing menu options (colors, dialog box, play/step)**
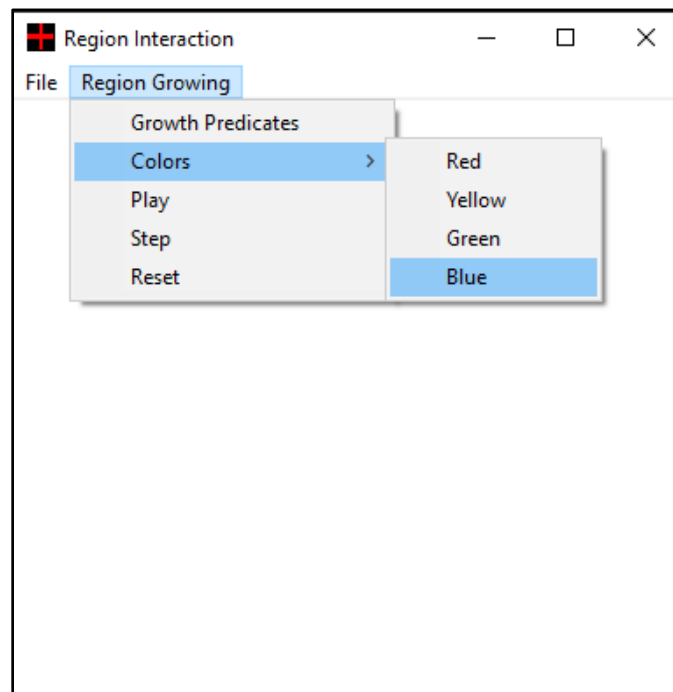

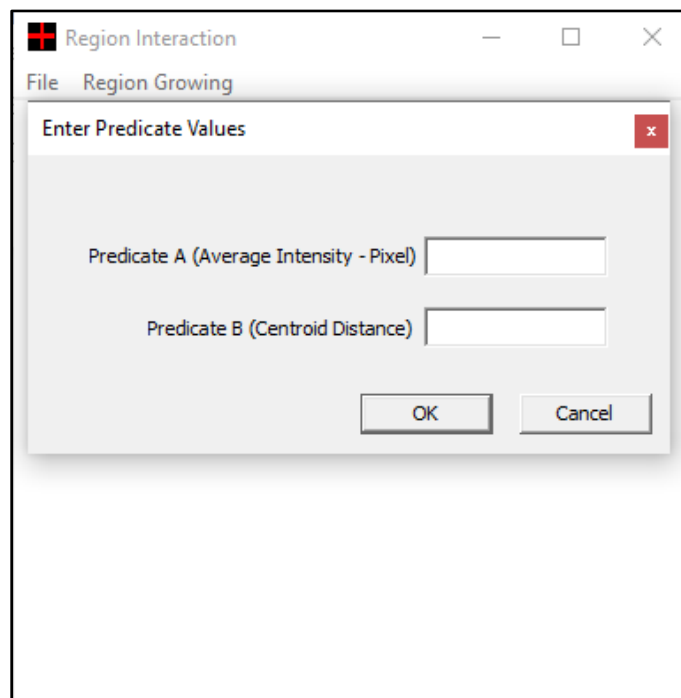*Figure 1: Menu Option*

Figure 2: Dialog Box

The dialog box shown in figure 2 opens when we click 'Growth Predicates' in menu as shown in figure 1.

- **A picture showing an entirely filled region (using dishware.ppm works best for this)**
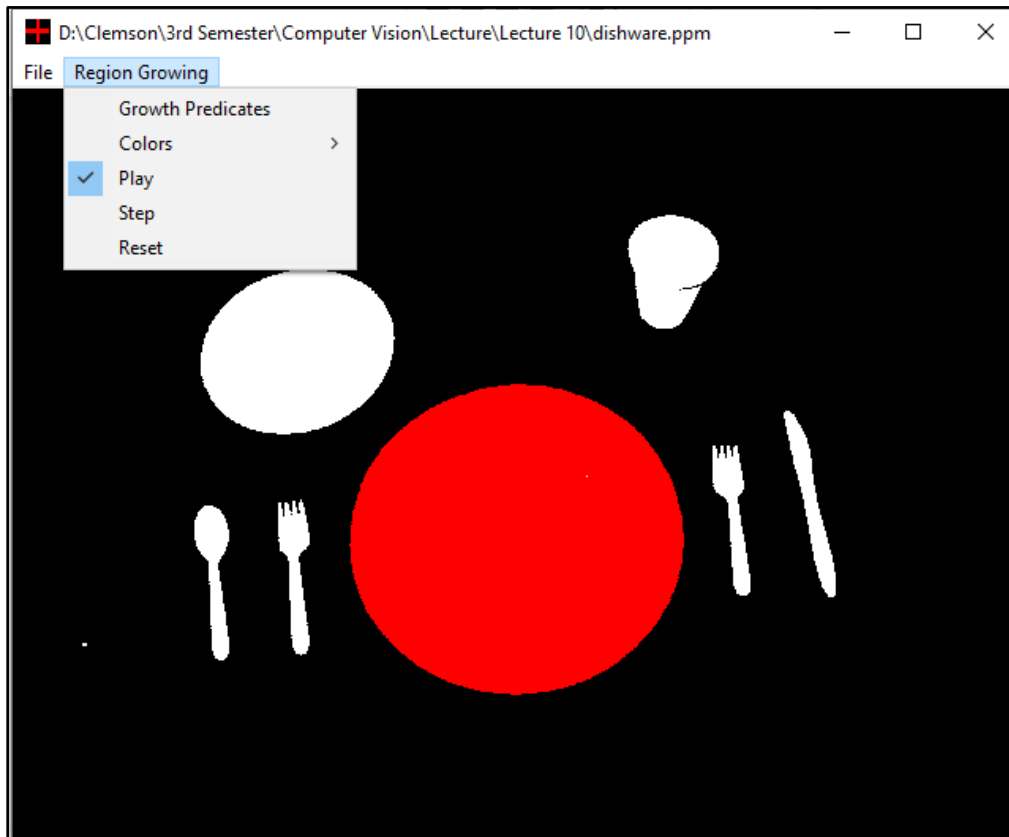

Figure 3: Entirely filled region

- **Two different pictures showing different pairs of predicate conditions**

  Case 1:
  Predicate A (Average Intensity – Pixel) = 20
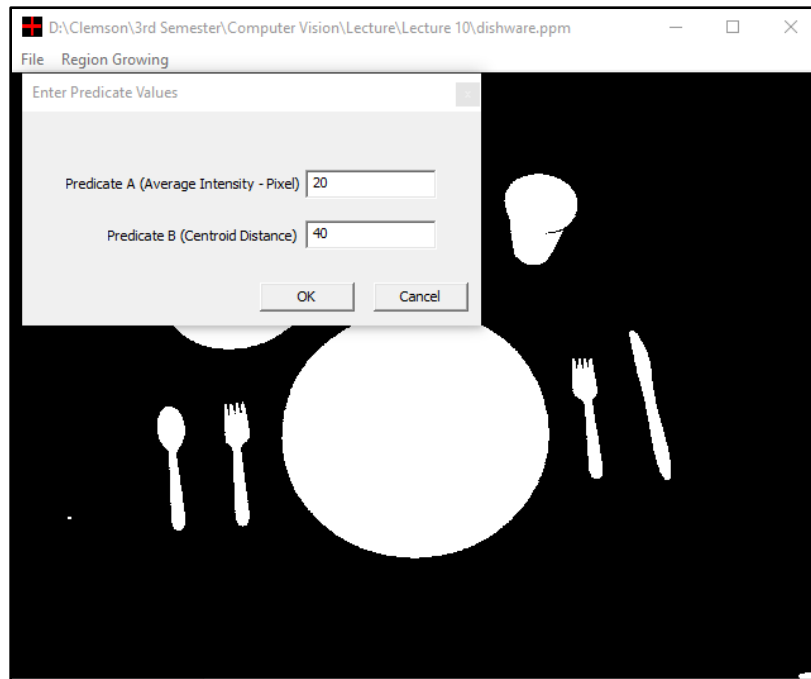 Predicate B (Centroid Distance) = 40
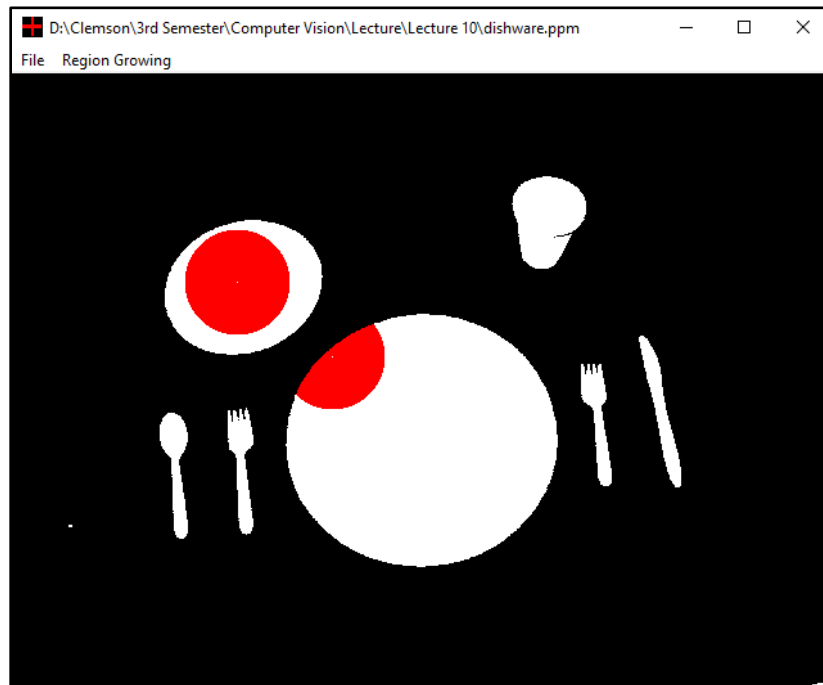

Figure 4: Case 1 Predicate Values

Figure 5: Case 1 Result

Case 2:
Predicate A (Average Intensity – Pixel) = 50
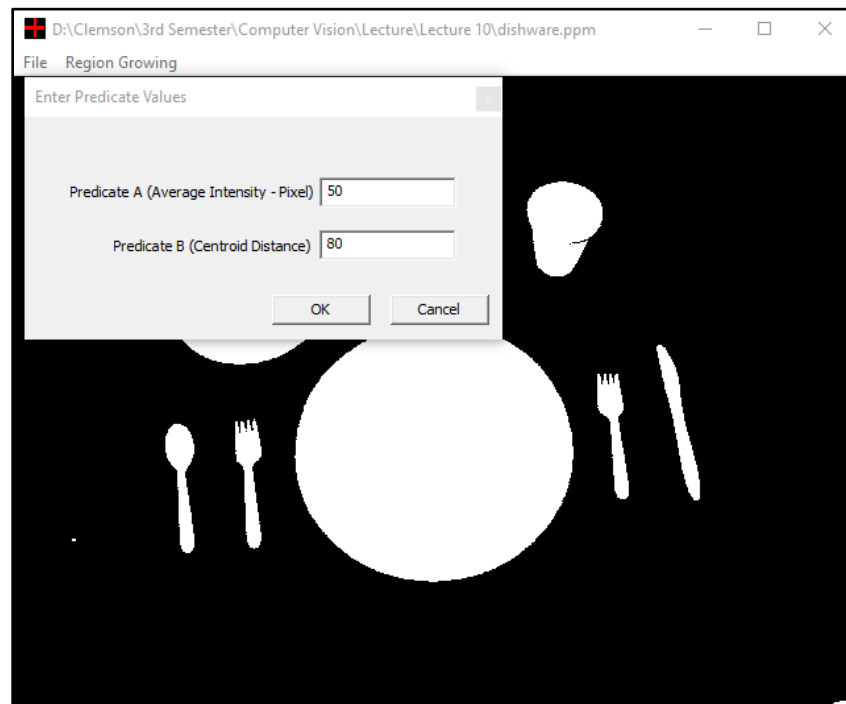Predicate B (Centroid Distance) = 80
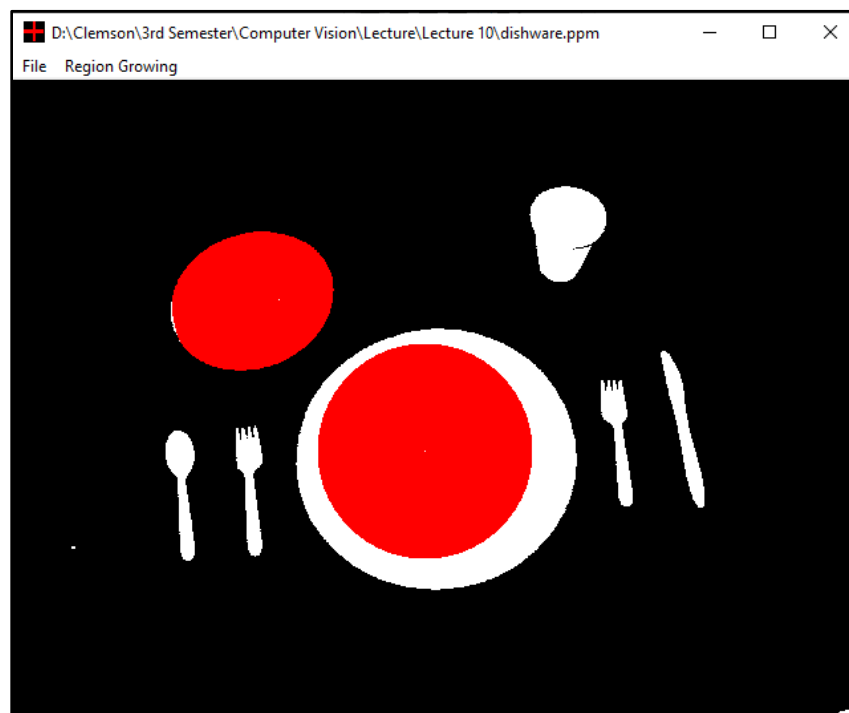

Figure 6: Case 2 Predicate Values

Figure 7: Case 2 Result

- **A picture showing multiple regions grows**

Figure 8: Multiple Region Growth

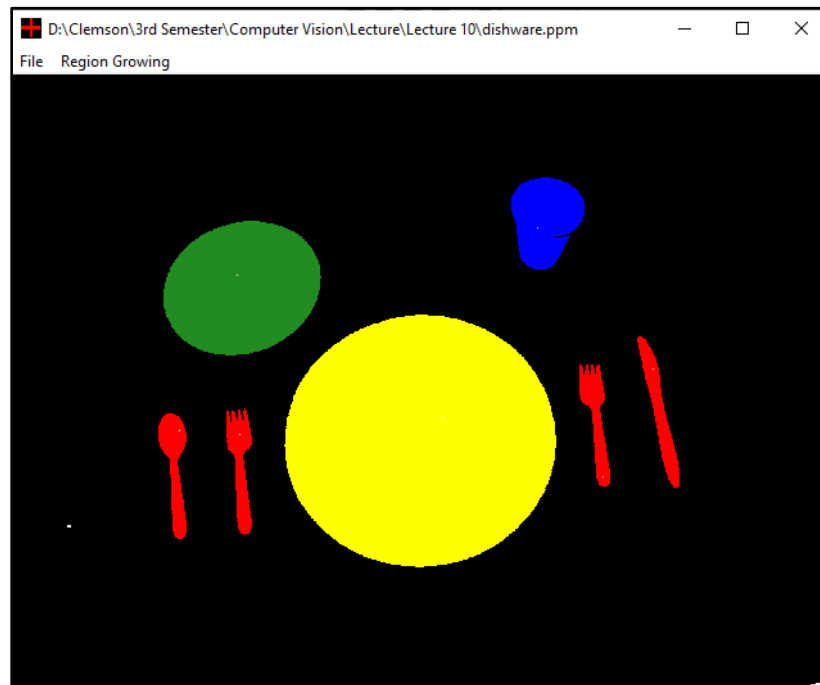- **A picture showing multiple colors on your region grow**

Figure 9:Multiple Region Growth with multiple color

Figure 10: Region grow with multiple colors