

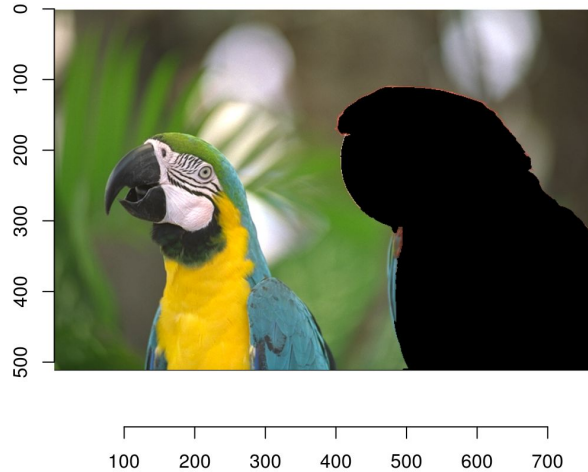


Image Segmentation using Max-Flow

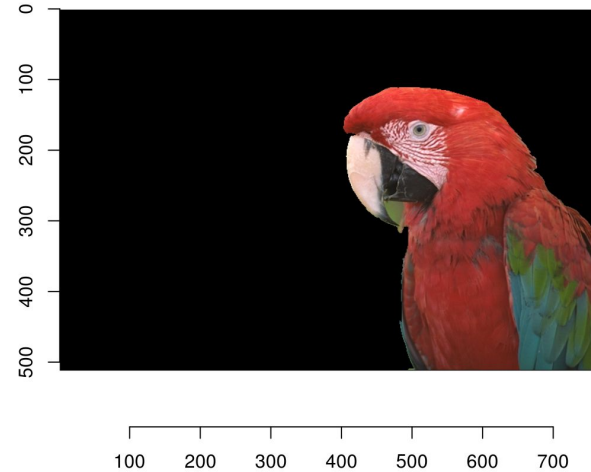
Natalia Frumkin

Problem: Segment Image into Foreground/Background

Background



Foreground



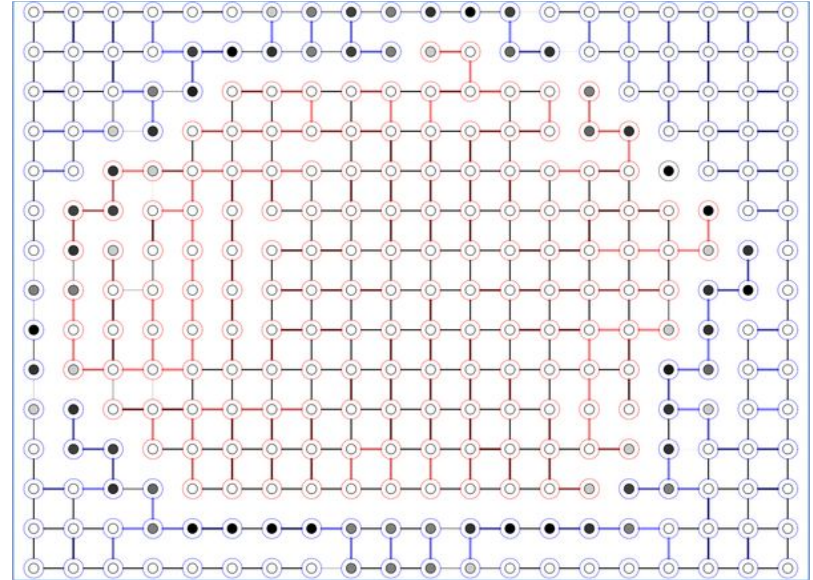
Project Proposal: Image Segmentation Algorithms

Max-Flow Algorithms:

- Edmonds-Karp
- Boykov's

Machine Learning Algorithms:

- Nearest Neighbors
- K-means



Project Design Requirements

- **Programming Language:** Python
- Comparison between Max-Flow and traditional Machine Learning algorithms
 - K-Nearest Neighbors
 - K-means
- GUI for Visualization/User Label Training

