

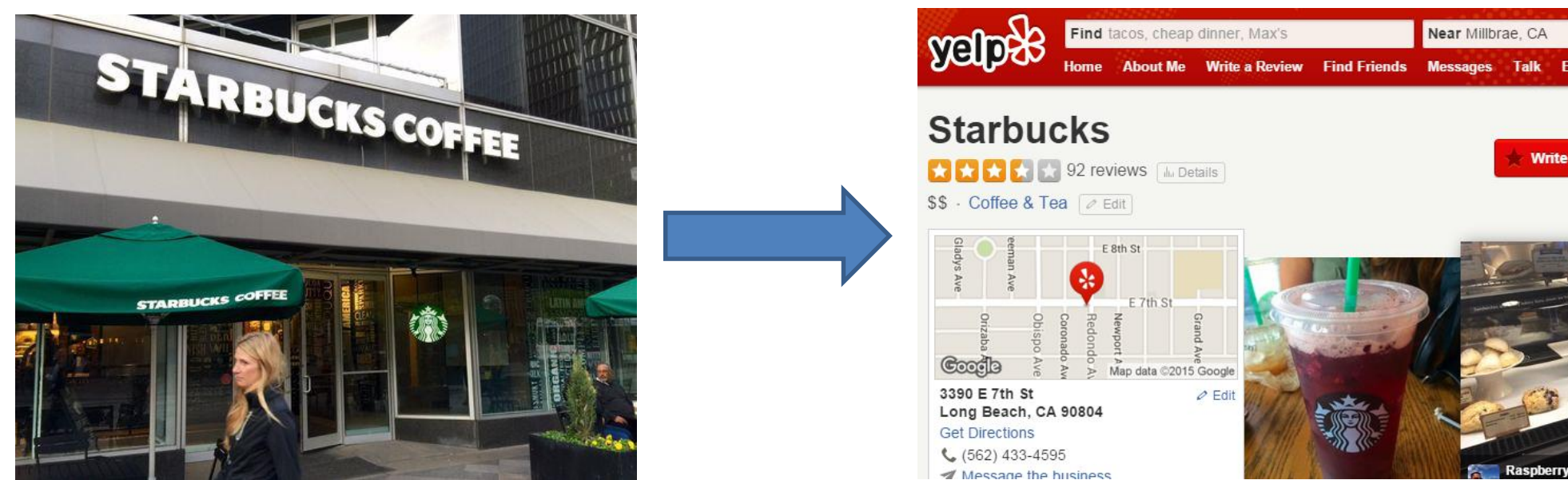
# Signboard Optical Character Recognition

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## Motivation

Having the ability to recognize any store just by taking a picture of its signboard is a powerful asset for business reviews and ratings companies such as Yelp to incorporate into their mobile app.



## Algorithm

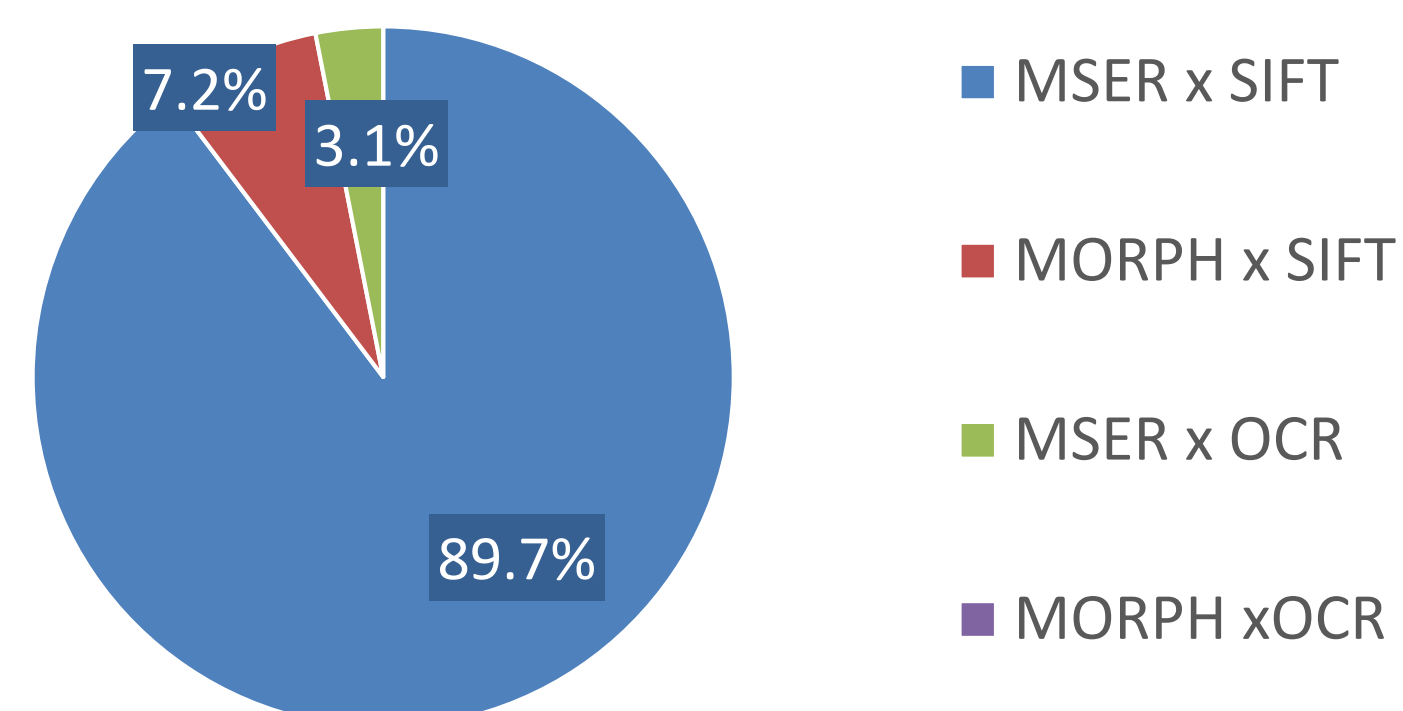
```

trainDatabase()
if (SIFT with MSER has many matches) return result
elseif (SIFT with Morphology has many matches) return result
elseif (OCR with MSER seems valid) return result
elseif (OCR with Morphology seems valid) return result
else return null
    
```

## Results

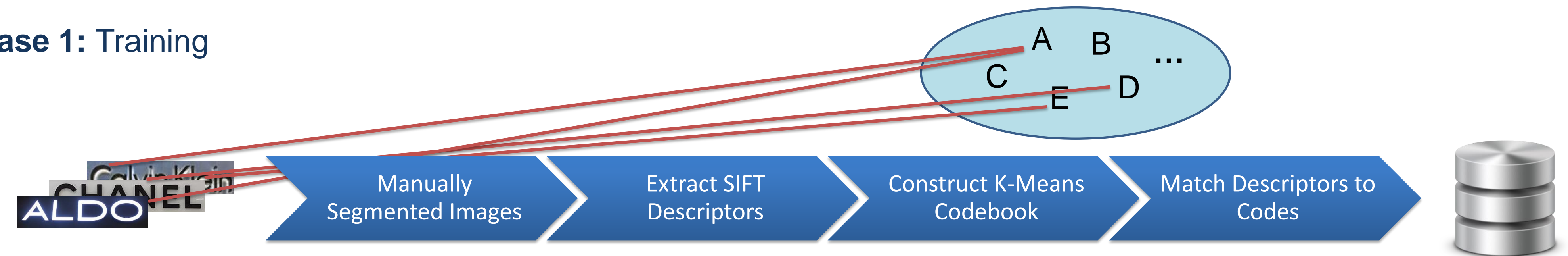
Success Rate: 86%  
 # Testing Images: 113  
 # Correctly Determined: 97

### Techniques Used

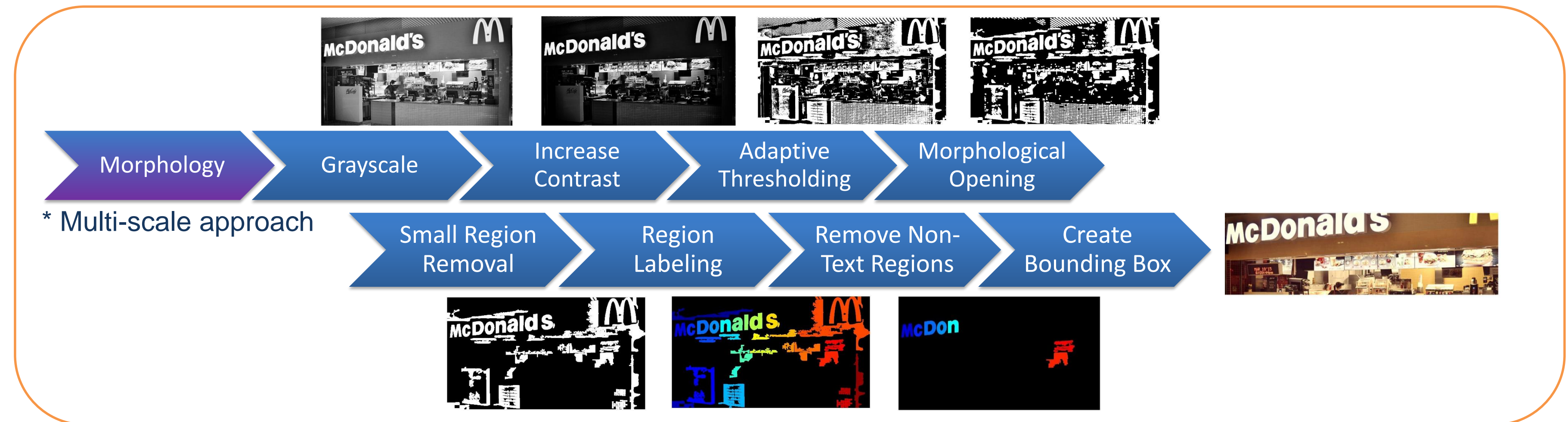
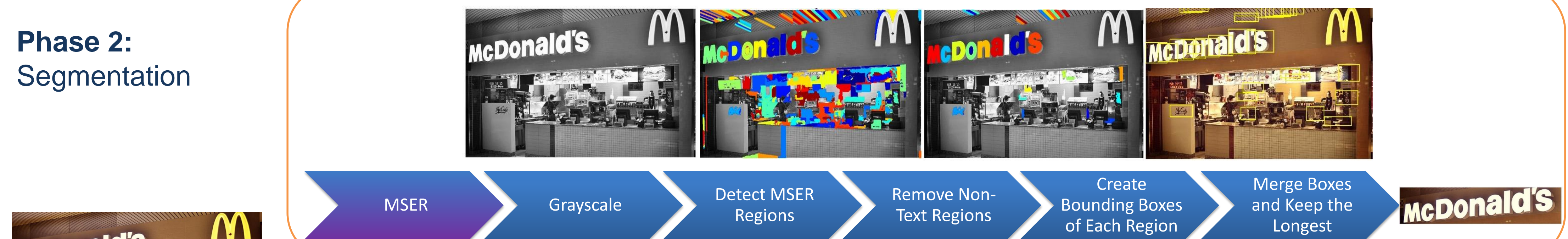


## System Pipeline

### Phase 1: Training



### Phase 2: Segmentation



### Phase 3: Recognition

