Team Copy-Waste - Project Bazaar 1 Script

Team Member (Re)introductions

- Nolan - Machine Learning Lead
- Will - Back-End Services Lead
- Rishabh - Front-End Services Lead

Vision:

Our project has two objectives; reduce risks to the public, waste management employees and facilities and reduce the cost to municipalities and waste management companies caused by rare and severe contaminants in recycling waste collection.

Mission

We strive to achieve our vision by automating the detection of severe and rare contaminants in the recycling stream

Business Need

Our business need, to reiterate, is to reduce risk and cost to municipalities and waste management employees. As recycling rates increase, contamination and risk becomes a growing concern.

Current: Status Green

Project Issues / Changes

- No issues or changes within this sprint

Individual Contributions (Feb 08 - Feb 15):

Nolan:

- Auditing 30,000 images of Transparent Plastic
- Code Reviews

Rishabh:

- Auditing 30,000 Clamshell Packaging annotations
- Started Multiple Object Placement
- Code Reviews

Will:

- Auditing 30,000 Grocery Bag annotations
- Code Reviews

Simple Copy-Paste

Over the past week we have been tasked with auditing 30,000 annotations each. As you can see all we needed to do was click on each image which contains inaccurate annotations and then press space bar to view the next set of images. Many of these annotations were found to be inaccurate which can negatively affect detection models such as our bin tip detector and models to be created through our copy paste pipeline.

Next up

Team

- Meeting with Mitacs Mentors
- Begin Dashboard User Testing
- Completing Layering Transformations for MVP 4
- Start working towards scaling up our augmentation prototype for MVP 5

Rishabh

- Exporting Annotations and Image metadata as well as assist in layering background objects

Nolan

- Working on smoothing out our polygon objects, then creating a function that clips any overlapping polygons.

Will

- Layering Existing Annotations which builds on placing multiple objects

Team Reflection

- **Does the team feel "on track"? (reiterate the above colour status)**
  - We believe we are still on track
- **What progress does the team particularly feel good (great) about?**
  - We finished auditing 30,000 images each, approximately 1700 images /hour.
  - 90,000 thousand images = ~53 hours of auditing. This was a time consuming process and we feel great to be finished with that.
- **What barriers (if any) does the team feel is a current impediment to success?**
  - None at this time
- **What help (if any) does the team require to move positively forward?**
  - None at this time
- **What questions or concerns does the team have (if any)?**
  - No concerns at this time