



ORS Image Project

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Problem: Automate *re-sizing*, *re-naming* and *path tracing* (around region of interest) tasks on images.

Situation

- ORS Nasco(Client) expects us to re-size, re-name and extract the product image without any background around it such that they could place it in any background they want
- There are around 15000 images of Gatorade and Kimberly Clark given by ORS Nasco(Client)
- Re-naming, re-sizing and path tracing can be done manually using Adobe Photo shop by a Photo Shop designer
- Automation is another option which can save a lot of time and money

Complications

- Processing 15000 images manually is tedious
- Perfect path tracing is highly difficult to achieve
- For highly complex images, automating tracing task almost impossible.

Key Questions

- Can the python script works as accurate as a photo shop designer ?
- Is there any algorithm which doesn't need manual intervention and can give more accurate results than the grab cut algorithm ?
- Can automation in all three tasks meets client's requirements ?

End State

- Automation of all three tasks with high accuracy

Accurate example



Accurate example



Accurate example



Accurate examples



Partially accurate examples



Complex images (In accurate)



Statistics (On Sample Images) :

- Total Images = 101
- Total Time Taken = 5000 seconds-Approx(83.3 minutes)
- Perfectly accurate = 76.23%
- Inaccurate = 23.76%