

# Visual Search for Fashion

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# What are they wearing?



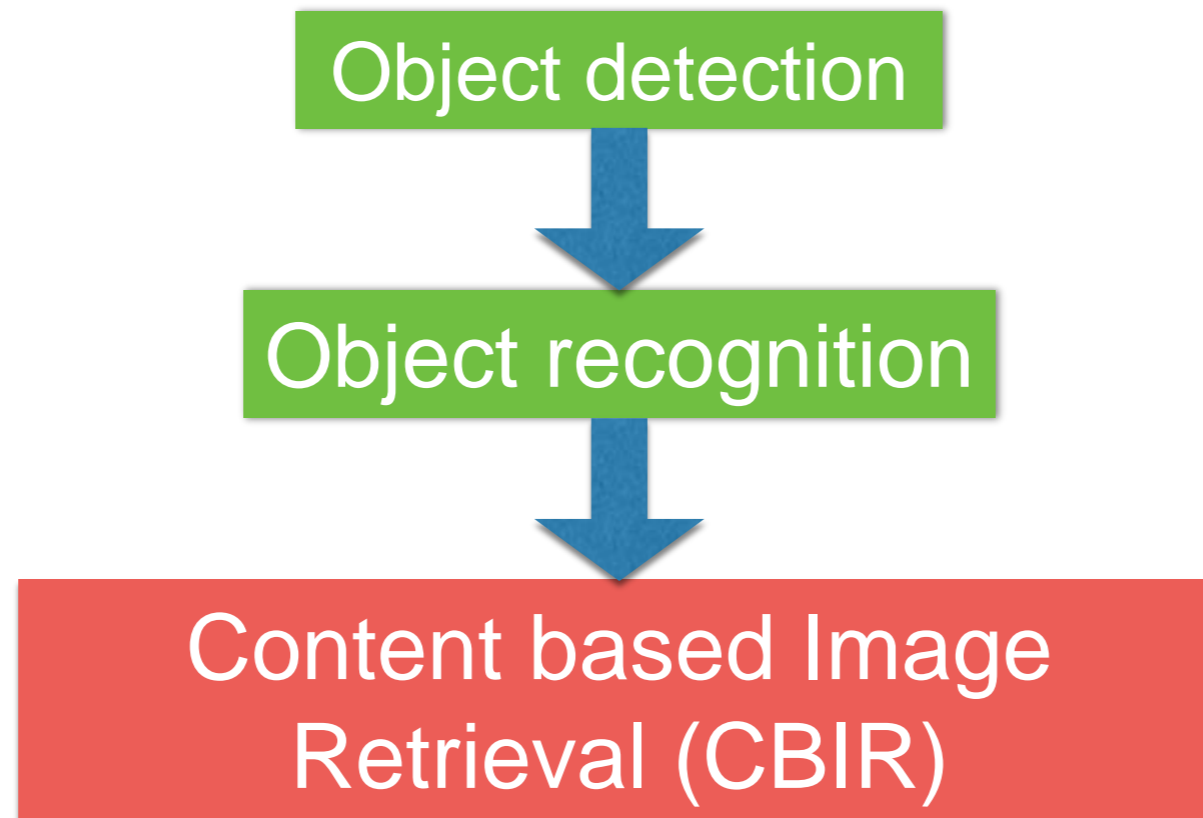
SnapFashion, ASAP54, Wazzat Fashion...



# Another application - Food Industry



# The Pipeline



# Challenge : Content-based Image Retrieval

- “Semantic gap”
- Hand crafted features do not work well. Deep Learning methods have improved performance, and there are signs of bridging the “semantic gap”.
- Practical value?
- Hypothesis 1: Combine standard metadata based techniques to improve performance?
- Hypothesis 2 : Augment image query with text or use image captioning to provide more semantic context.

# Resources

- Papers :
  - Deep Learning for Content-Based Image Retrieval: A Comprehensive Study, ACM MM '14, Ji Wan et al.
  - Using very deep autoencoders for content-based image retrieval, ESANN 2011, Krizhevsky and Hinton
- Dataset :
  - Amazon (Product Advertising API) and other e-commerce websites which have categorized products.

Thank You!