

Novel Algorithms and Tools for Empowering People Who Are Blind to Safeguard Private Visual Content

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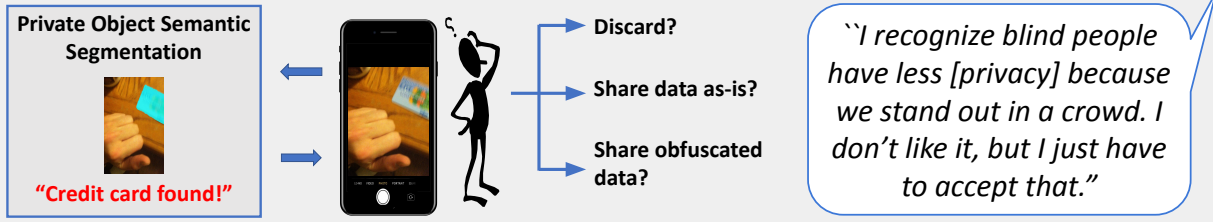
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Project URL: <https://home.cs.colorado.edu/~DrG/VisualPrivacy>

Problem: Blind people regularly take pictures and videos to share with others, but must risk their **visual privacy** in ways that sighted people do not.



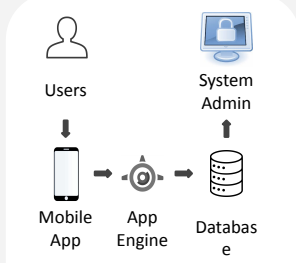
Objective 1: Protocol for curating visual private content with based on user study followed by privacy dataset creation

Objective 2: Few-shot learning datasets from blind people and evaluating limitations of existing algorithms for our new dataset

Objective 3: Few-shot privacy models that can recognize and locate private content found in our visual privacy datasets

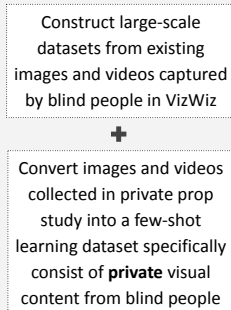
Approach

Private Prop Study (o1)

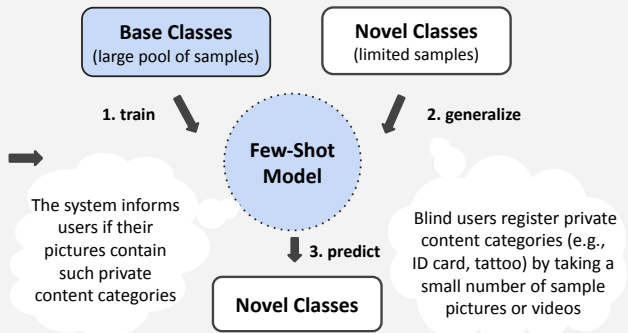


Collect images and videos from blind people with **props of private content**

Datasets Construction (o2)



Few-Shot Learning Algorithm (o3)



Broader Impacts:

1 Empowering blind people to safeguard private information in the images and videos they capture and share.

2 Contributing dataset that facilitates few-shot model development for detecting diverse objects.

3 Guidelines for dataset collection with private content and contributors with disabilities.

