Observation 1: Private Content is in Images Taken by People Who are Blind
- 12% of their 44,799 pictures show private content.
- Recognizing whether private information is in an image is important for supporting people who are blind.

Observation 2: Visual Questions Can Ask About Private Content in Images
- 1 of every 40 VQs (for 33,858) ask for private content.
- Is this pregnancy test positive or negative?
- What is the medicine in this pill bottle?

Task 1: Is Private Content in the Image?
Dataset Analysis:
- 42% of private regions show objects, and the rest text.

Algorithm Benchmarking:
- 5,537 private images and 8,089 non-private images

Training algorithms with our corrupted dataset yields similar performance to training algorithms on the original, uncorrupted images.

Task 2: Is Private Content in the Image Needed to Answer the Visual Question?
Dataset Analysis:
- Private content is needed for images of pregnancy tests, pill bottles, letters, street signs, & credit cards but not for faces, framed pictures, & license plates.

Algorithm Benchmarking:
- Q: GRU trained on GloVe embedding
- I: 2-layer NN trained on ResNet-50 features

Our dataset originates from people who are blind and supports two tasks: recognizing private information and its purpose from their images and visual questions respectively.