Face Detection, Extraction, and Swapping on Mobile Devices
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Motivation
In recent years the internet has given rise to a number of public forums in which it has become very easy to connect and collect personal information about complete strangers. Such forums have raised many privacy concerns. Our Face Swap algorithm aims to address privacy in applications such as Google Maps street view. Past implementations have blurred faces or tried to remove people entirely. Both of these solutions look somewhat unnatural. We aim to allow faces to be swapped out for pre-approved faces, thus protecting the privacy of innocent bystanders on the street while maintaining the quality of the original photo. Our Android implementation aims to make this technology available on mobile devices for ease of testing and for general enjoyment.

Success

Future Work

Image Processing Algorithms

Sources