

# Creating Content Verification Tools to Protect Document Integrity

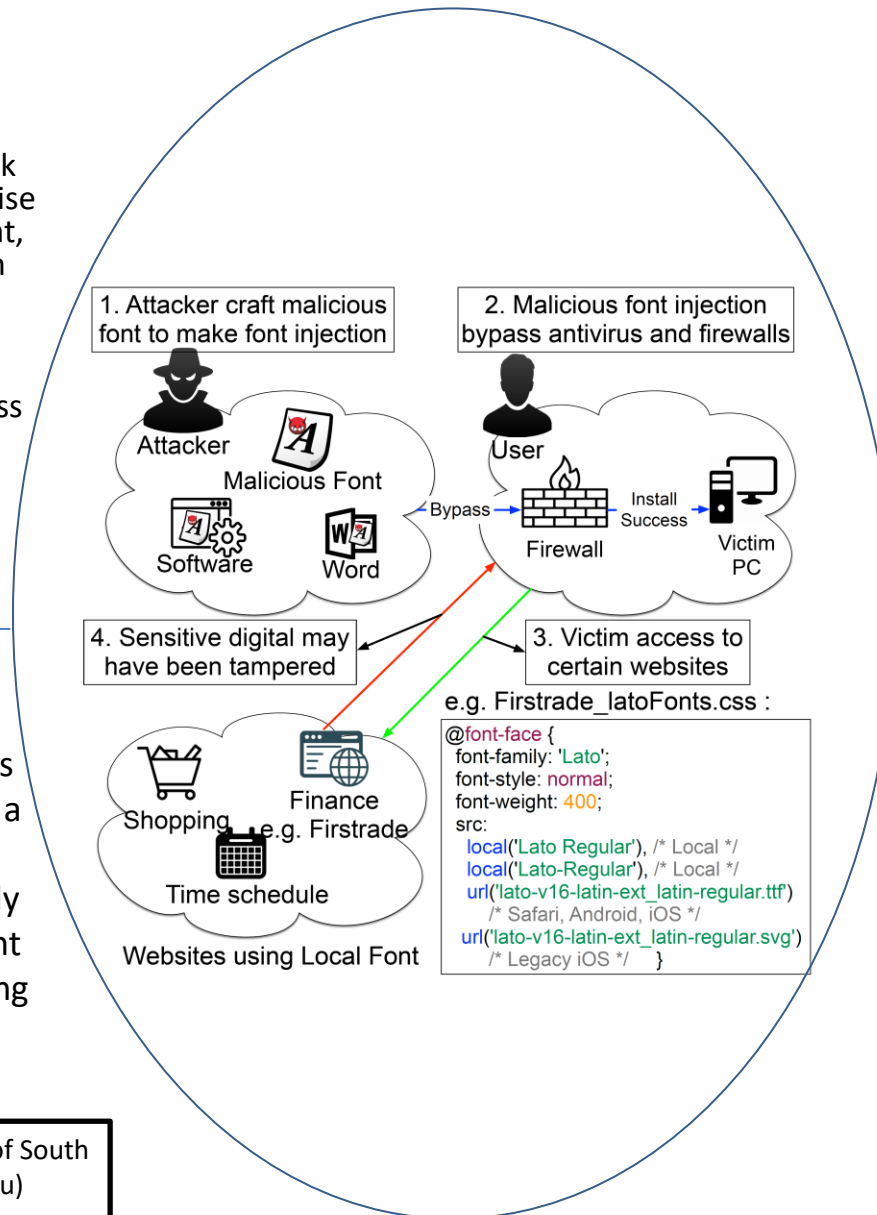
## Challenge:

- The content masking attack can significantly compromise the integrity of a document, because it causes a human and a computer to see different content from a document.
- This project aims to address this threat by seeking effective defense tools.

## Solution:

- The key innovation of this project is the creation of a comprehensive defense toolkit that can effectively address advanced content masking attacks leveraging adversarial machine learning techniques.

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## Scientific Impact:

- This project will advance the state-of-the-art in document security via creating a set of defense tools to assure the integrity of documents.
- This project may improve the security community's understanding about the content masking attack and the impact of adversarial machine learning on document integrity.

## Broader Impact and Broader Participation:

- This is a transition to practice project and the targeted users are companies and organizations that concern document security.
- An undergraduate student was recruited to participate in this research project.