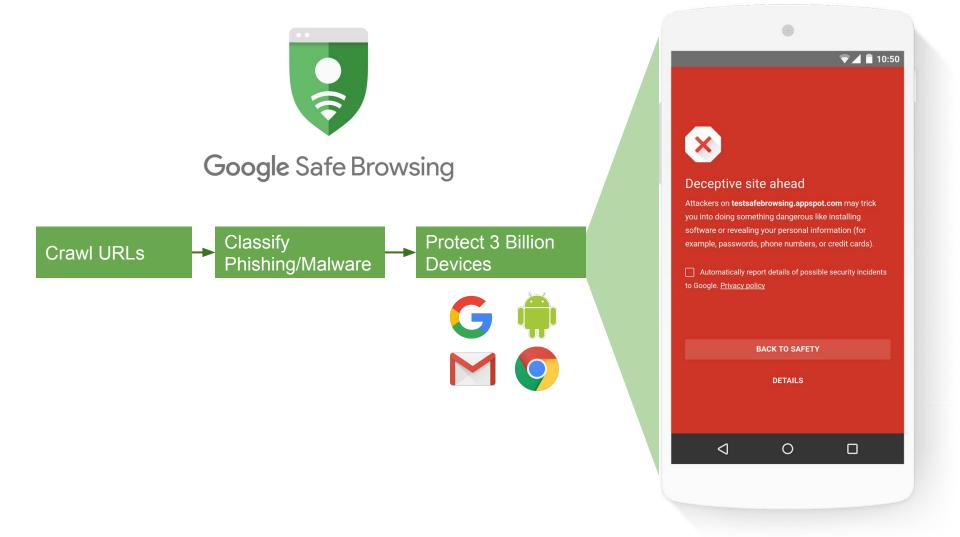


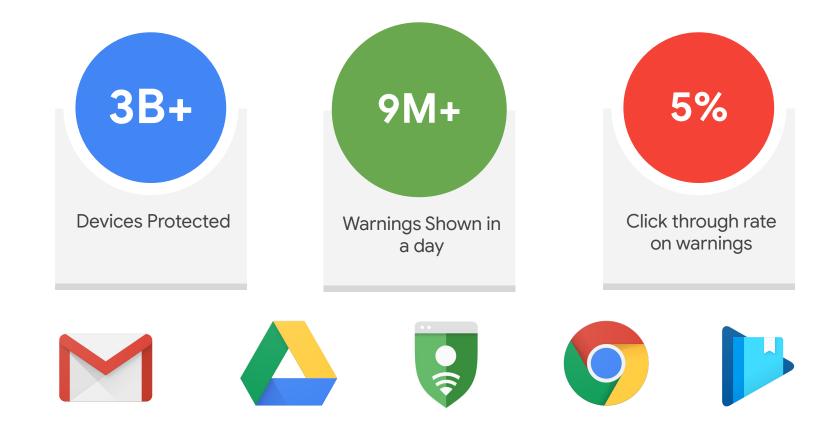
Google Safe Browsing



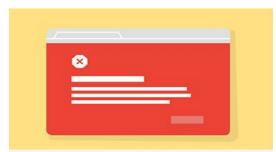
Goal: Make the world's information safely accessible



Google Safe Browsing



Google Safe Browsing



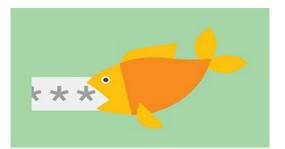
Malware

Software specifically designed to harm a device, the software it's running, or its users.



Unwanted Software

Disguised programs that actually make unexpected changes to a user's computer like switching homepage or other browser settings.



Social Engineering

Tricks users into performing an action that they normally would not if they knew the true identity of the attacker

Why is this hard?

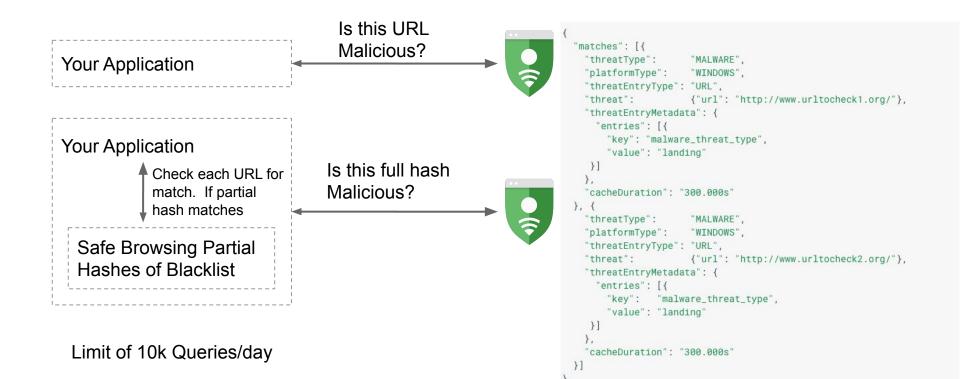
Challenges

- Cloaking (agent types, times, geo, IPs)
- Delivery channels (email, messaging, texts, ads)
- Balance of accuracy and recall false positives to create the best outcome for both webmasters and users



How to get involved

Access Our Data Safe Browsing Lookup/Update APIs



Submit Data Safe Browsing Submission API

Single Incident Reports: https://safebrowsing.google.com/safebrowsing/report_phish/

Programmatic Access for Submitters with more than 1k URLs/month

```
threat_report: {
    threat_entry_type: "URL",
    threat_entry: {url: "http://testsafebrowsing.appspot.com/s/phishing.html"}
},
client_info: {
    client_id: "initialTest",
    client_version: "1"
}
```

Summary



Safe Browsing Protects Devices and Infrastructures from Phishing, Malware, and UwS



A combination of multiple approaches is the only way to succeed



ML helps us cover our defense-in-depth strategy.



You can let us know about phishing via the Submission API and you can access our verdicts via the Lookup/Update APIs