Fighting Censorship with TunnelBear

Mission driven development

We think the Internet is a much better place when everyone can browse privately, and browse the same Internet as everyone else.

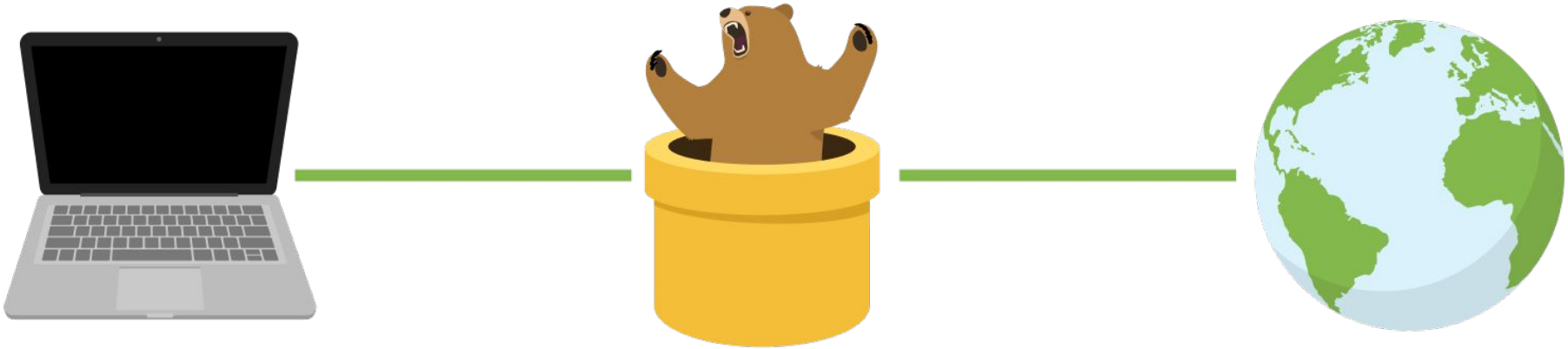
TunnelBear Apps

TunnelBear

RememBear

TunnelBear for Teams

How VPN can be used to bypass censorship

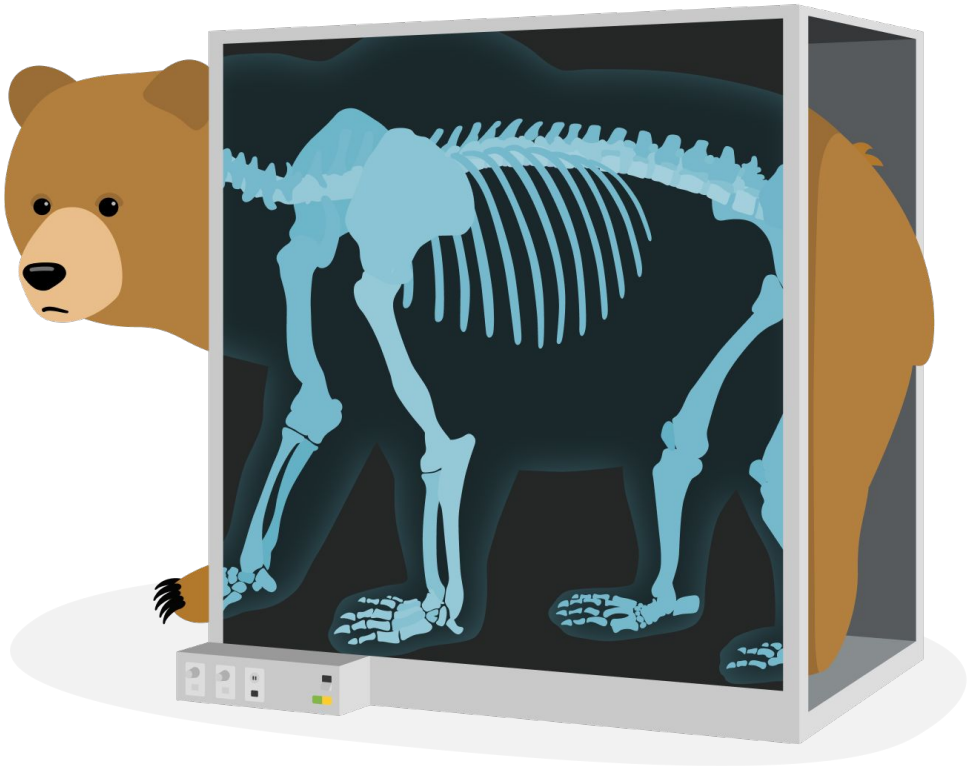


An open and uncensored internet

2011 2013 2015 2018 2020

Advocating for more security and transparency

- Third-party code audits every year
- Transparency report 2019
- Analytics: our own platform that respects privacy
- Stronger encryption



Four stages of censorship

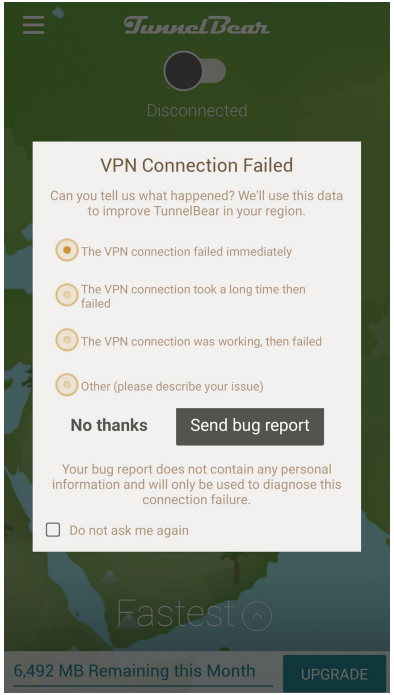
- Distribution
- Reaching APIs
- Connecting to a VPN
- Maintaining a VPN connection

Example censorship efforts

📲 Distribution	ASL19 (Paskoocheh) Farsi localization
🚪 Reach TunnelBear APIs	Domain fronting
🔑 Connect + maintain a secure VPN connection	obfs4 None PII telemetry

Connection failures

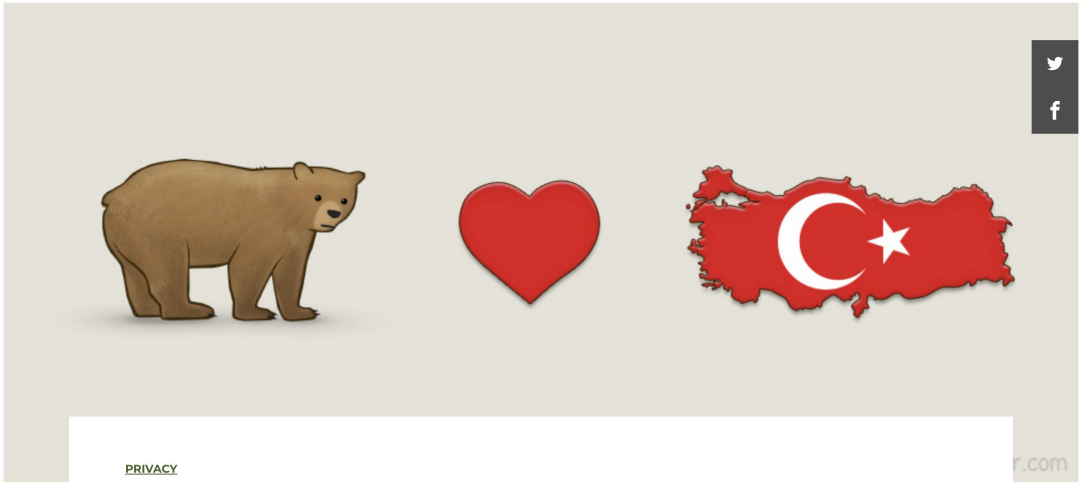
Localized prompts that show when a connection fails



Censorship happens everywhere

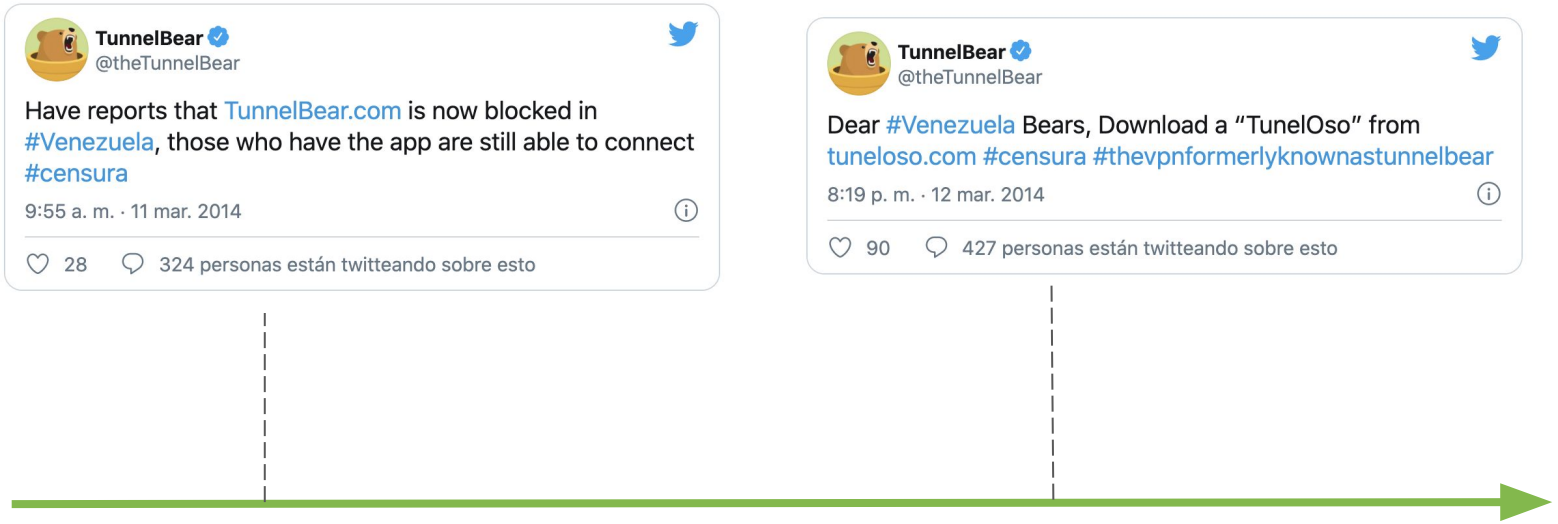
What years of crisis response taught us...

Turkey Social Media Blockage (2013)



Distribution

Venezuela Social Media Blockage (2014)



Distribution & API blocking

Iran protests (2018)

Home › News › News: Iran Protests › Iran Protesters Evade Censorship With Internet Software

News | News: Iran Protests

Iran Protesters Evade Censorship With Internet Software

Written by **Staff Writer** 15th January 2018

Distribution
API blocking
Connecting to VPN
Maintaining VPN connection

Brazil and Uganda (2016)

Partners on the ground

- Better understand the nuances of censorship and on-the-ground roadblocks
- Context of how censorship is really being legislated
- Understanding of social, political, and economic dimensions of censorship

Social responsibility

This program is about investing in the human impact of our technical roadmap

Thanks for ‘Bear’ing with us

- We are prepared to learn
- We are prepared to collaborate
- We are prepared to move forward

If you’d like to get involved, please email **community@tunnelbear.com**

Q&A

PaddleBear, Director of VPN

PoohBear, Advocacy & Press Manager

More on Encryption

Device type	Protocol	Data encryption	Data authentication	DH group
Windows	OpenVPN/IKEv2	AES-256-CBC	SHA256	2048 bit DH group
Android	OpenVPN	AES-256-CBC	SHA256	4096 bit DH group
macOS	OpenVPN	AES-256-GCM	SHA256	3072 bit DH group
iOS 11+	OpenVPN/IKEv2	AES-256-CBC	SHA256	2048 bit DH group