Online Tracking And You Cypurr 2019

Who Is Tracking You?

Internet Service Providers (ISPs)

People who provide you access to the Internet have knowledge of what websites you visit

Websites/Web Apps

Sites you visit are tracking your usage of their site and (potentially) behavior on other sites

How Do ISPs Track You Online?

Domain Name Service (DNS) Lookups

Every time you request a site like <u>www.google.com</u> they have a log of the request to lookup the IP address

Usage Patterns

How often you use the Internet, what times you browse the Web, how often you use their services

How Do Websites Track You Online?

Cookies

Pieces of information stored on your computer as you visit different sites

Tracking Beacons

Element on site that transmits data about you back to a server

What Are ISPs Tracking?

Traffic Patterns

- > Sites you've visited, search history, communications
- > What you do when you are using their service

Traffic History

> Data on what you are browsing, across a given time

What Are Websites Tracking?

Analytics

> Page load time, average response time

Behavior

- > Actions on site, links visited, time spent on site
- > "Cool" information is tracked across sites

Why Are They Tracking?

Beyond tracking use of site, companies can sell this data to advertisers for more efficient marketing

- "This person has looked up mountain cabins"
- "This person has bought one airplane ticket"
- "This person has searched for 'ski masks' this week"

Ghost Profiles

Sites can also figure out who you are based on data provided by other users

So-called "ghost profiles" can be built about *you* if people you know provide information about you to the service

What Can You Do?

Most sites require the ability to track you in some way, and many of them have clauses built in to mandate it

Have you consented to a site tracking you?

- ➤ If you use the site: YES
- > If you've visited the site: More than likely
- ➤ If you've *never* visited the site: NO

What Can You Do?

Some practices to follow in helping to reduce tracking

- > DNS over HTTPS/Third Party DNS
- > Ad blockers on browser
- Cookie Deleter/Privacy Badger extension
- Browser containers (on browsers that support them)
- > Terms of Service Reader

Bottom Line

Information is valuable in this time

- Learning about what people are doing on the Internet is valuable
- > Sites want to maximize their value

You should be aware of what information you're giving up

Be aware of what you are revealing online