



## Gender and IoT (G-IoT) Resource List

Leonie Tanczer, Trupti Patel, Simon Parkin, George Danezis

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This resource list is intended as supplementary material to better inform and guide victims of technology-facilitated abuse as well as those working with them.

It lists organisations which produce guidelines and advice, and highlights known methods of abuse which perpetrators may exploit. It also serves as a reference point to provide additional information on common cybersecurity and privacy issues.

The resource list has been developed by a socio-technical research team at University College London. The team's 'Gender and Internet of Things' ([G-IoT](#)) study was funded by the UCL Social Science Plus+ scheme. Research collaborators included the [London VAWG Consortium](#), [Privacy International](#), and the [PETRAS IoT Research Hub](#). The study examined the implications of 'Internet of Things (IoT) technologies such as 'smart' voice assistants or wearables on victims of domestic violence and abuse.

The list may be used together with a [guide](#) which outlines common IoT devices and their functionalities.

Please note, this document was written in July 2018. While we aim to update this document regularly and indicate changes through timestamps, hyperlinks and proposed recommendations may not always be accurate.

The resource list also does not replace advice from specialists, including the police.

Should you have any suggested amendments, questions or concerns about the resource list, please contact the research team.



## INTERNET OF THINGS-SPECIFIC ADVICE

**Technology Safety** is a blog managed by the Safety Net Project at the National Network to End Domestic Violence (NNEDV). The blog discusses technology, privacy, and safety in the context of intimate partner violence, sexual assault, and violence against women\* and provides safety toolkits to aid victims. Most recently NNEDV published dedicated information to assist in a better understanding of IoT in domestic violence cases. Resources include information on how to spot and engage with personal assistants, connected health & medical devices, smart toys and location trackers.

<https://www.techsafety.org>

### Shodan

**Shodan** is a search engine where users can search for specific types of devices (including webcams, routers, servers) connected to the internet using a variety of filters. It is best known for allowing users to search for vulnerable IoT systems, including smart video cameras or even traffic light controls. Device owners are frequently unaware that, for instance, their video recordings can be accessed through this page.

<https://www.shodan.io/>



**eSafety Women** is an online website produced by the Australian Government's Office of the eSafety Commissioner. The website covers a lot of different content and has a useful interactive infographic to help familiarise the public with IoT systems which may pose a threat to victims in the home or a smart car.

<https://www.esafety.gov.au/women>

\*Which also refers to gender non-conforming individuals.





## DIGITAL SECURITY FOR WOMEN\*

**Tech vs Abuse** is a collaborative research study about the use of digital tools to support people affected by domestic abuse. The project is supported by various institutions, including Comic Relief, Chayn, SafeLives, and Snook. The website points to ten different initiatives by organisations such as Refuge or Rape Crisis Scotland, all of which aim to improve the safety of those affected by abuse and coercive control.

<https://www.techvsabuse.info/>

### DIY Cybersecurity for Domestic Violence

This guide was developed by Hack Blossom, an activists and artists platform that works on digital rights. The guide explores threat scenarios and provides recommendations on how to resist a controlling partner.

<https://hackblossom.org/domestic-violence/>



**Take Back the Tech** is a global campaign that connects the issue of violence against women\* with emerging technologies. The website offers safety roadmaps and information on cyberstalking, hate speech and blackmail. The material is available in English, Spanish, and French.

<https://www.takebackthetech.net/>

**Gender and Tech** is a website by Tactical Tech that points to conferences and workshops as well as useful tutorials in various languages. The page contains an activity map of initiatives taking place across the globe.

[https://gendersec.tacticaltech.org/wiki/index.php/Main\\_Page](https://gendersec.tacticaltech.org/wiki/index.php/Main_Page)

**Cyberwomen** is a digital security curriculum with a gender perspective geared towards those who want to train others on digital security. The resource covers topics such as passwords, viruses and safe browsing and is available in English, Spanish, and Arabic.

<https://iwpr.net/what-we-do/printed-materials/cyberwomen>





# TECH ABUSE

**XYZ** is a space for practical tools to navigate digital security and privacy from a gender perspective. It is a space to learn from other women\*, inspire one another and co-create. The page contains information on issues such as hate speech, useful apps, and online violence.

<https://xyz.informationactivism.org/en/>

## Access Now's Digital Security Helpline

**Access Now** works with individuals and organisations around the world. They provide both advice on how to improve digital security practices as well as rapid-response emergency assistance. The 24/7 service is available in nine languages, including English, Spanish, French, German, Portuguese, Russian, Tagalog, Arabic, and Italian.

<https://www.accessnow.org/help/>



## DIGITAL SECURITY FOR CHILDREN

**Thinkuknow** produces online resources for children of different age ranges (5-7; 8-10; 11-13; 14+) as well as parents/carers. It not only offers information on keeping children safe but also links members of the public to the reporting function of the Child Exploitation and Online Protection Command which is part of UK's National Crime Agency.

<https://www.thinkuknow.co.uk>

The **National Society for the Prevention of Cruelty to Children** (NSPCC) gives guidance about online safety aimed towards children. It indicates how to set up parental controls, offers a helpline, and provides resources for parents/carers as well as schools and teachers.

<https://www.nspcc.org.uk/preventing-abuse/keeping-children-safe/online-safety/>

The **UK Safer Internet Centre** provides advice for young people as well as specific advice concerning different social media platforms. The Centre offers a hotline for reporting and removing sexual images of children and offers training for a range of different audiences.

<https://www.saferinternet.org.uk>

**Childnet** offers resources for staying safe online, including guidance on cyberbullying, how to restrict in-app purchases, and how to set up family agreements to set clear expectations for a positive and safe internet use.

<https://www.childnet.com>

### Spyware

Online monitoring software such as **Spyzie** and **FlexiSPY** are frequently advertised as tracking software for parents/carers to monitor children's online behaviour. However, these programmes have been previously misused by perpetrators. These monitoring software packages have a wide range of capabilities including setting a schedule to restrict phone usage, tracking a person using GPS or WiFi hotspots, or accessing one's messages and browsing history.





## FINAL POINTERS

The **CryptoParty** movement is a decentralized effort with community events happening all over the world. The goal of any CryptoParty event is to pass on knowledge about protecting yourself in the digital space. This includes encrypted communication, the prevention of tracking while browsing the web, and general security advice regarding computers and smartphones. These events are free of charge and normally run by volunteers.

<https://www.cryptoparty.in/>

**Cyber Aware** is a UK-wide cross-government awareness and behaviour change campaign. It aims to drive behaviour change in individuals as well as small businesses, so that they adopt simple secure online behaviours to help protect themselves from cyber criminals and other malicious parties.

<https://www.cyberaware.gov.uk/>

The **Security Planner** by Citizen Lab is an easy-to-use guide with expert-reviewed advice for staying safer online. Users answer a few simple questions to get personalised online safety recommendations. An updated version of the Security Planner in languages other than English is expected to be released soon.

<https://securityplanner.org/#/>

The **CyberHygiene Insight Report** identifies what behaviours are currently expected of users of IoT products to properly secure their devices. It gives recommendations for the purchase, set-up, maintenance, and disposal of IoT systems.

<https://iotuk.org.uk/wp-content/uploads/2018/01/PETRAS-IoTUK-Cyberhygiene-Insight-Report.pdf>

