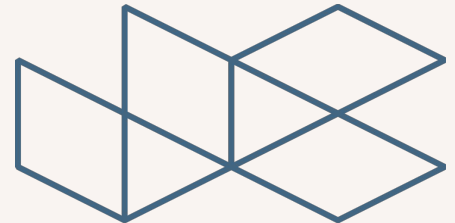


Visualizing the CyBOK References

University of Bristol Cyber Security Group & Uncommon
Correlation

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Introduction

The CyBOK resource references roughly 2000 other resources, such as papers, books and websites, across 21 knowledge areas.

Nearly 5000 authors contributed to these references.

Our goal was to make these references easier to search and explore, ultimately making this information more accessible to a wider audience.



Implementation

The CyBOK bibliography is managed LaTeX. The bibliography files are parsed with a python script to produce a json file which describes CyBOK Knowledge Areas, sources, and authors of sources, as interconnected nodes.

This json file is ingested by the D3 javascript graphing library in order to render the graph.



Walkthrough from initial load

CyBOK References

The graph is drawn from a central root node 'CyBOK', which is connected to 21 blue Knowledge Area nodes.

The user can select one of the knowledge areas, such as 'Malware and Attack Technologies' and can add this as a search term to to expose the references within this knowledge area.

This exposes the 96 references within this knowledge area, which can also be seen in tabular form below the graph.



Filtering

Side menu

If the user is only interested in a subset of knowledge areas they can include or exclude knowledge areas using the side menu.

Search bar

If there is a resource or author the user already knows the name of, they can use the search bar to render the graph for that author.

