

## **DSpace Under the Hood: How DSpace works**

Lewis, Stuart; Hayes, Leonie; Stangeland, Elin; Shepherd, Kim; Jones, Richard; Roos, Monica

Whilst you don't need to be a mechanic to drive a car, it is helpful if you have a basic understanding of how a car works, what bits do different jobs, and how to top up your oil and pump up your tyres / tires. This presentation will give an overview of the DSpace architecture, and will give you enough knowledge to understand how DSpace works. By knowing this, you will also learn about ways DSpace could be used, and ways in which it can't be used.

The presentation will answer questions such as:

- What are the constituent parts that make up DSpace? (database, filestore, search indexes, browse tables etc)
- Why do we have filestore and a database? What gets stored where, and why?
- What is the difference between search and browse in terms of the technology that powers it?
- What is the difference between log files and statistics, and what is the purpose of log files?
- How does the JSPUI relate to the XMLUI - what is shared, and what is duplicated? What about the core API?
- What does 'solr' in the term 'Solr statistics' mean?
- Where to look when things go wrong (log files / HTML pages / stack traces)
- What is the difference between search engine crawlers and harvesters?