

# Black Squirrel GNU/Linux:

## The Worlds First Operating System Designed for Libraries, Museums, and Archives

By Trevor U. Watkins

This poster discusses the development of Black Squirrel GNU/Linux. Black Squirrel was built to serve as a tool for the 21st century library, museum, and archive. The operating system provides cutting edge open source software for: makerspaces, gamerspaces, and hackerspaces, and assists librarians and information professionals with:

**Data Preservation,  
Data Curation,  
Records Management,  
Transcription,  
Security & Privacy, and  
Computer Homeostasis.**



### Black Squirrel Core Apps

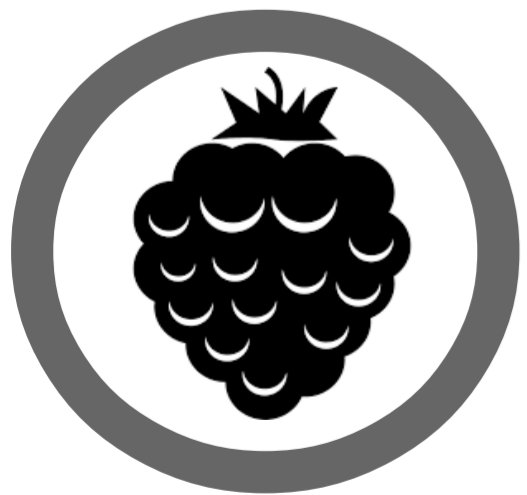
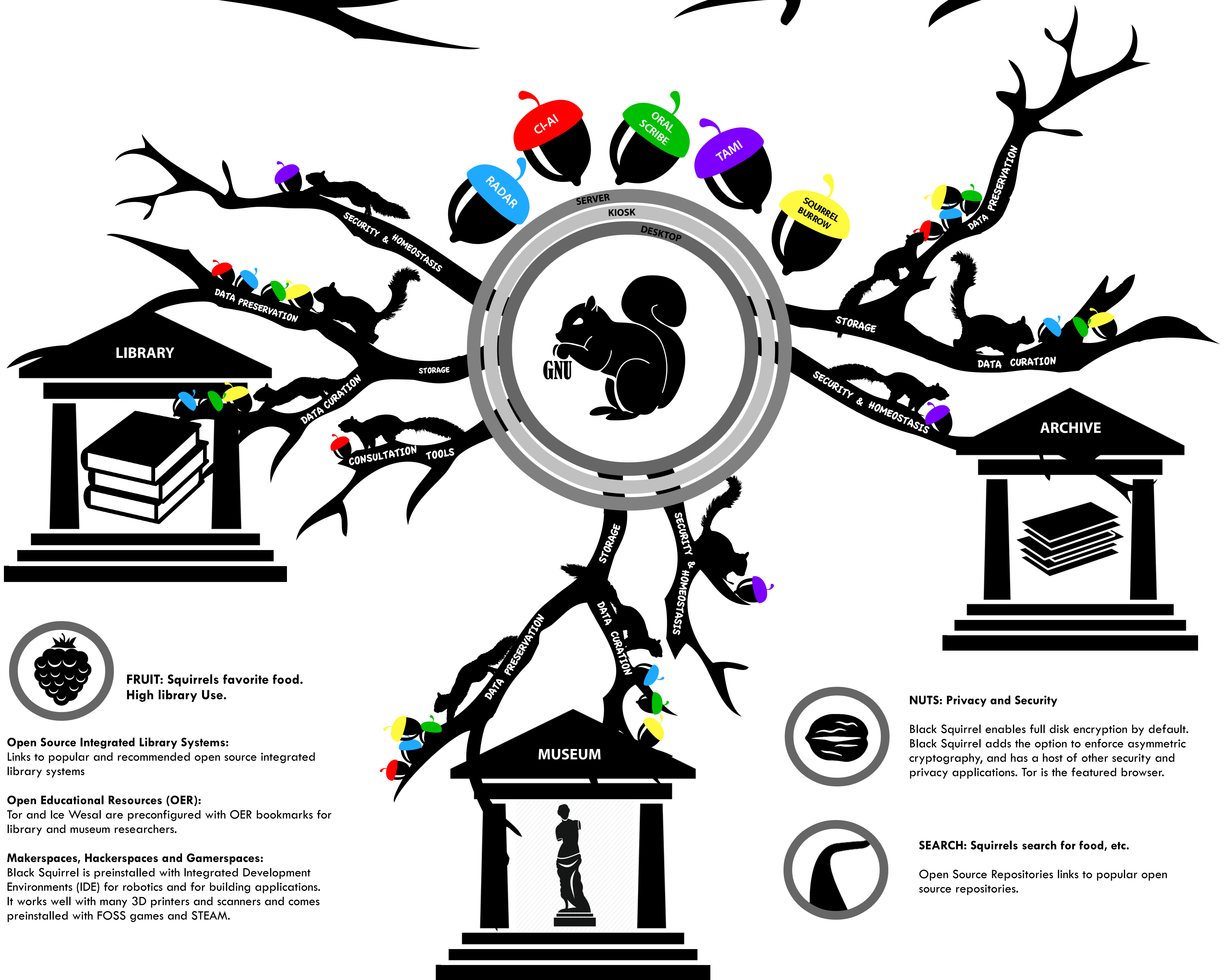
**RADAR (Records Acquisition, Destruction, and Request)** is a knowledge-based multi-agent expert system that serves as a tool for records managers, archivists, and other facilitators that manage the lifecycle of their respective organization's records.

**CI-AI (Consultation, Instruction, Assessment and Impact)** is a tool that uses machine learning to assist reference and instruction librarians with assessing consultations and library instruction and measures the impact of those services.

**Squirrel Burrow** is an open source repository solution for digital content that is built on D-Space.

**ORalScribe** is an application used to transcribe oral histories in real-time during an oral history interview, and transcribes audio from dated media platforms such as Cassette tapes, VHS, DVDs, CDs.

**Tami II and TUX-Face** is an epistemic agent that performs knowledge-intensive analysis of Unix/Linux and MAC OS computer systems log files in order to determine how well the system is operating.

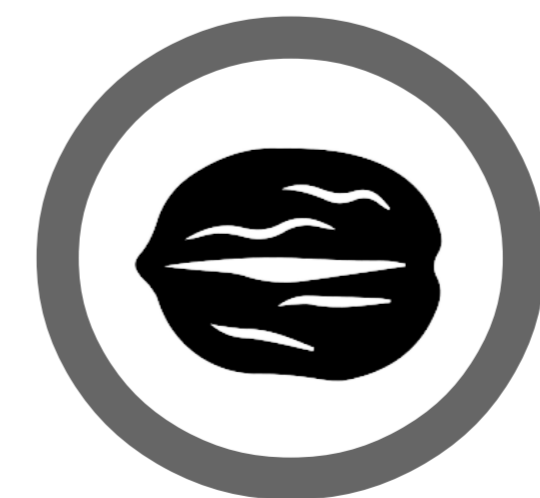


**FRUIT:** Squirrels favorite food. High library Use.

**Open Source Integrated Library Systems:**  
Links to popular and recommended open source integrated library systems

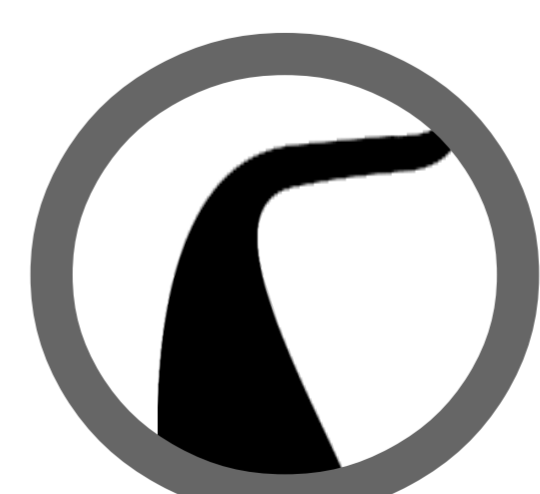
**Open Educational Resources (OER):**  
Tor and Ice Wesal are preconfigured with OER bookmarks for library and museum researchers.

**Makerspaces, Hackerspaces and Gamerspaces:**  
Black Squirrel is preinstalled with Integrated Development Environments (IDE) for robotics and for building applications. It works well with many 3D printers and scanners and comes preinstalled with FOSS games and STEAM.



**NUTS:** Privacy and Security

Black Squirrel enables full disk encryption by default. Black Squirrel adds the option to enforce asymmetric cryptography, and has a host of other security and privacy applications. Tor is the featured browser.



**SEARCH:** Squirrels search for food, etc.

Open Source Repositories links to popular open source repositories.