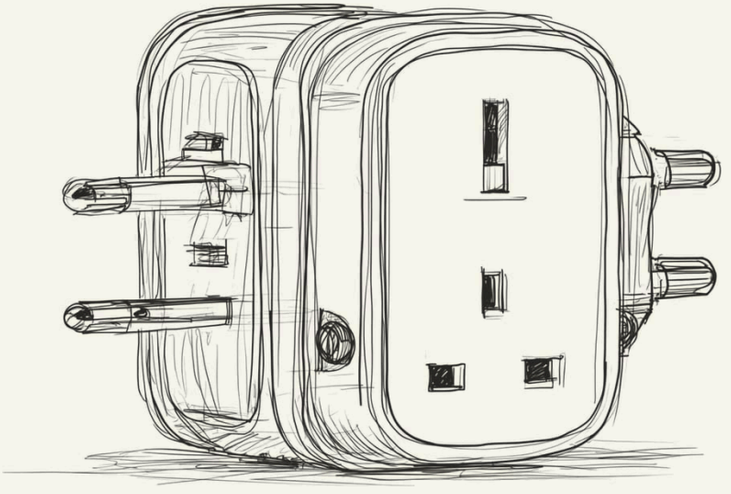
Structure and systems

Semantic web



A vision of a web whose content carries machine-readable meaning, so software can connect information and reason about it.

Semantic web

Structure and systems

The semantic web is an idea for making information across websites understandable to software through shared descriptions. A web identifier can name a place or concept as well as a page, so different sources can refer to the same thing. Linked data puts part of that vision into practice by publishing descriptions that connect across the web.

Why it matters for content

A music venue's event page can describe its date, location and organiser in a vocabulary other systems recognise. If the page and its markup come from the same maintained record, a change can reach both. Shared labels help information travel, but someone still has to decide what they mean and keep descriptions current.

How AI changes the picture

Language models can interpret ordinary prose and suggest structured descriptions, so fewer facts need to be labelled by hand. Published identifiers and named facts can give a configured system something clearer to retrieve and trace. NLWeb, introduced in 2025, combines structured data with language models to support conversational access to sites.