

## Title: Introduction to the Semantic Web

The Semantic Web is an extension of the current web in which information is given well-defined meaning,

better enabling computers and people to work in cooperation. It is a collaborative effort led by the World Wide Web Consortium (W3C) with participation from a large number of researchers and industrial partners.

Tim Berners-Lee, the inventor of the World Wide Web, originally envisioned the Semantic Web as a component of Web 3.0.

It relies on standards such as RDF (Resource Description Framework), OWL (Web Ontology Language), and SPARQL for querying data.

The goal of the Semantic Web is to make data on the internet machine-readable.

Applications include intelligent search engines, personal digital assistants, and data integration tools.