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The Semantic Web is an extension of the World Wide Web through standards set by the World Wide Web Consortium. The goal of the Semantic Web is to make Internet data machine-readable.

Advantage of a Semantic Web boils down to the nature of vast amounts of data, information, and knowledge being accessible and comprehensible to Smart Agents, Bots, Virtual Assistants, and anything else you could imagine benefiting from the notion of Artificial Intelligence.

Fundamentally, a Semantic Web uniquely addresses the following contemporary challenges:

* Data Silos
* Data Privacy
* Fake News

Disadvantages

* incomplete (no explicit operational/procedural knowledge)
* no interpretation standard
* lack of standards, ambiguity in node/link descriptions
* not temporal (doesn’t represent time or sequence)