

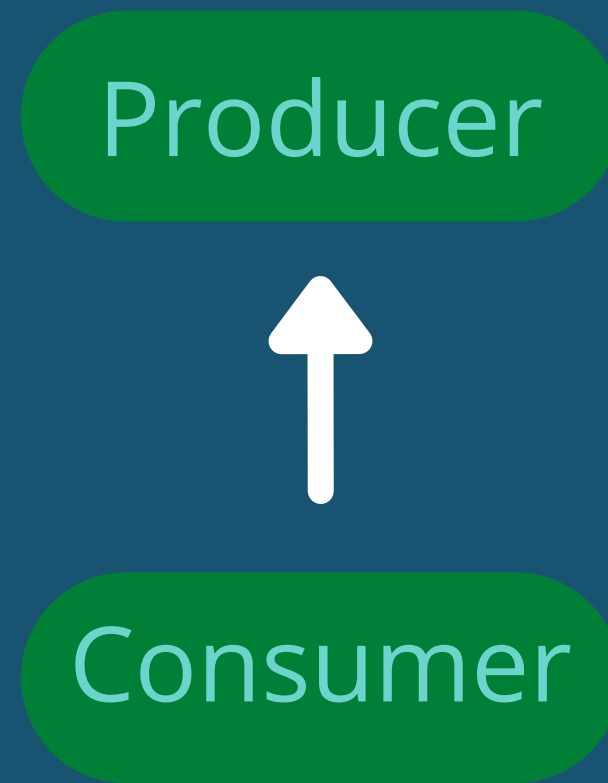
THE EVOLUTION OF THE INTERNET

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OUTLINE

- Comparison of Web Generations
 - web 1.0,web 2.0,web 3.0
- What is Web 3.0
- Evolution of 3.0
- Semantic Web
- Features of 3.0
- Advantages of Web 3.0
- Challenges of Web 3.0

Comparison of Web Generation



WEB 1.0

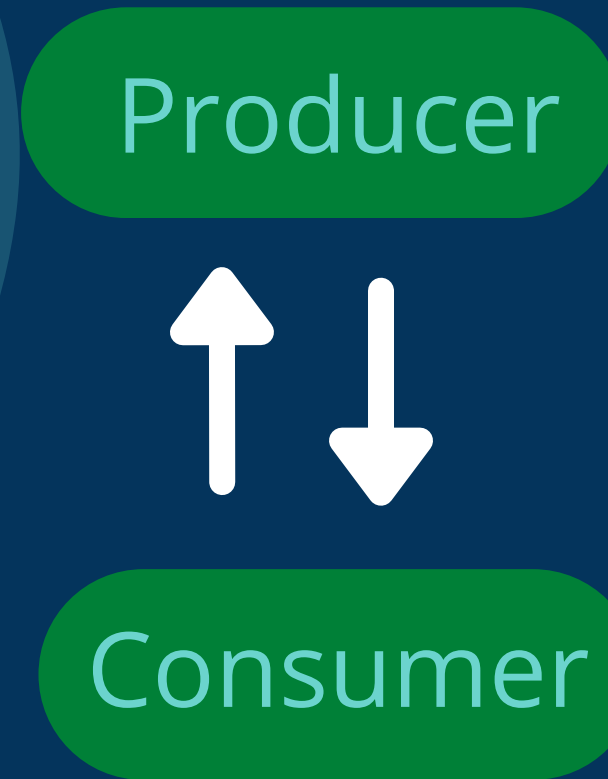
CENTRIC WEB

1st generation of www. Known as **Static** websites.

It is one-way broadcasting.

Invented in 1989 by Tim Berners-Lee

Widely used betn 1989-2004



WEB 2.0

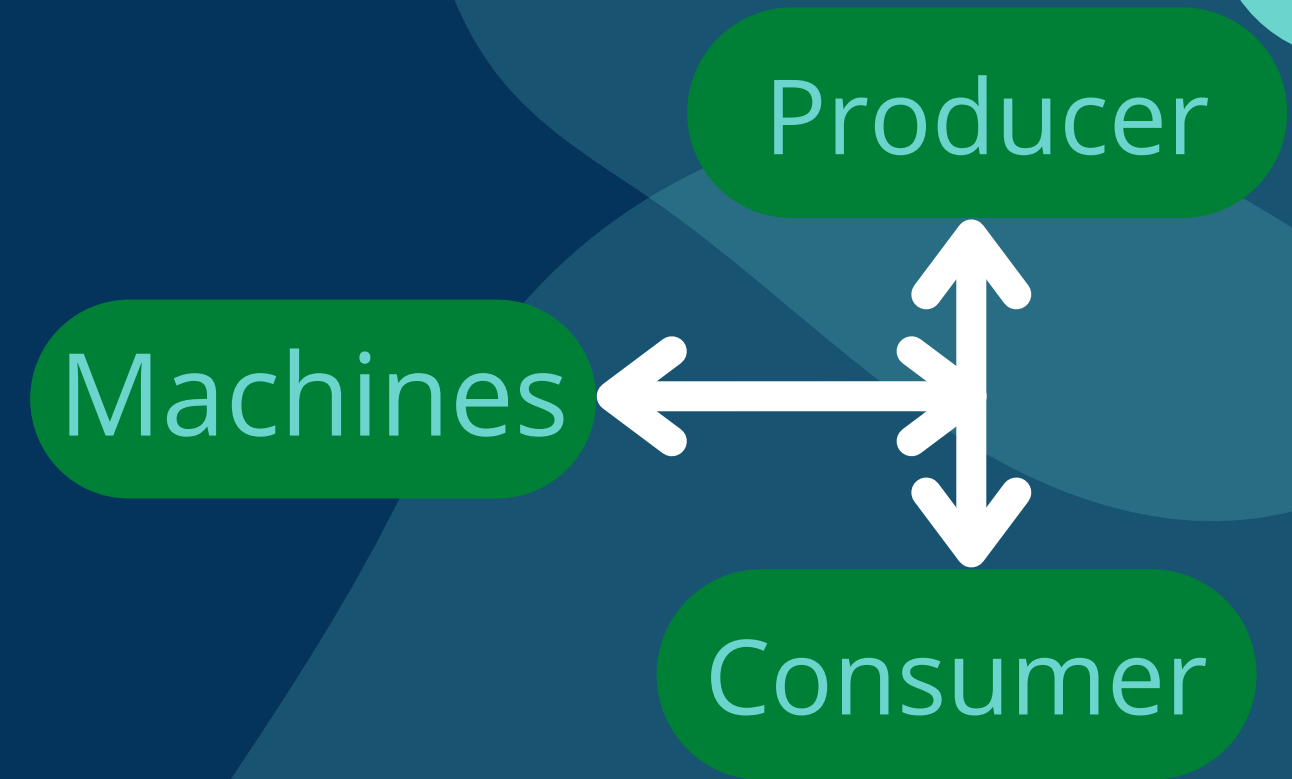
PEOPLE CENTRIC WEB

2nd generation of www. Known as **Dynamic** websites.

It is two-way broadcasting.

Invented in 2004 by Darcy DiNucci

Widely used betn 2004-2021



WEB 3.0

MACHINE CENTRIC WEB

3rd generation of www. Known as **Semantic** websites.

It is decentralized

Invented in 2014 by Gavin Wood

Future of the Internet...!!!

WHAT IS WEB 3.0...?

Semantic web, often called as Web 3.0

Web3 is an idea for decentralized Internet based on Blockchain Technology.

With web 3.0, machine will be able to perform tasks requiring human intelligence, reducing our time and effort on the Internet dramatically.

● Share Some attributes with Web2.0

- REST
- Openness
- Transformation
- Intelligence
- Ubiquitous computing



WEB 3.0



EVOLUTION PATHS OF WEB 3.0

- Semantic Web
 - Intelligent System Planning
 - Business and Network Applications
- Video Web
- Web 3D
- Ubiquitous and Pervasive Web

Semantic Web

Semantics:- Meaning

Coined by:- Tim Berners-Lee

Purpose:-To make Internet data machine readable

Technology used:-

RDF(Resource Description framework)

-A general method of describing information

OWL(Web Ontology Language)

-A family of knowledge representation languages

ActivityPub

-A generic way for client and server to communicate with each other

Features of web 3.0



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graph TD; A((Features of web 3.0)) --> B((Semantic web)); A --> C((Ubiquity)); A --> D((3D Graphics)); A --> E((Artificial Intelligence)); A --> F((Connectivity))
```

Semantic
web

Ubiquity

3D
Graphics

Artificial
Intelligence

Connectivity

Advantages of the web 3.0

- PROFICIENT LOOKING
- EFFICIENT SEARCHING
- BETTER MARKETING
- BETTER SHOWCASING
- MORE ACCURATE SEARCH RESULT
- CHANGE HUMAN COLLABORATION
- COMPELLING CORRESPONDENCE
- MORE PRODUCTIVE WEB COLLABERATION

Challenges of web 3.0

VASTNESS:-

The www contains many billions of pages. Any automated reasoning system will have to deal with truly huge inputs.

VAGUENESS:-

These are imprecise concepts like "young" or "Tall". **Fuzzy Logic** is the most common technique for dealing with vagueness.

UNCERTAINTY:-

These are precise concept with uncertain values. **Probabilistic** reasoning technique are generally employed to address uncertainty.

DECEIT:-

This happens when the producer of the information is intentionally misleading the consumer.

INCONSISTENCY:-

Defeasible reasoning and paraconsistent reasoning are two technique that can be used to deal with it.

Thank You...!!!