About
What is Weaviate?

2019 ➡ 2020
How Weaviate evolved

Tech
Contextionary - GraphQL

Demo
From the docs to the interface
About
Weaviate is an open source smart graph
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“AI first architecture”
Weaviate is an open source smart graph
Semantic Search
Automatic Classification
Knowledge Representation

Including, but not limited to, knowledge graphs
time
time
time
time
Weaviate stores all data in a semantic space
Weaviate stores all data in a semantic space
Weaviate stores all data in a semantic space
A word is characterized by the company it keeps.
- John R. Firth - 1957
Company:
name: Apple
foundedIn: 1976
inCountry:
"$cref": ...
hasCeo:
  Person:
    name: Tim Cook

Company, name, Apple, founded, in, 1976, in, country, with, the, name, United, States
Company, name, Apple, founded, in, 1976, in, country, with, the, name, United, States

- Euclidean distance.
- Logarithmic function based on among others the occurrence.
- Optional “word boosting”.

[0.34534, 2.3543, 8.34532 ...]
{ Get{ Things{ Company(explore:{ concepts: ["iphone"] })}{ name } } }
{  
  "data": {  
    "Local": {  
      "Get": {  
        "Things": {  
          "Company": [  
            {  
              "name": "Apple Inc"  
            }  
          ]  
        }  
      }  
    }  
  },  
  "errors": null  
}
{Get{Things{Company(exploring:{concepts: ["Redmond"]})}{name}}}}
{ "data": { "Get": { "Things": { "Company": [ { "name": "Microsoft Corp." } ] } } }, "errors": null }
Technology
Contexionary - GraphQL
Get {
  <SematicKind> {
    <Class> {
      <ClassOfBeacon> {
        <property>
        ...
      }
    } property
    ...
  }
}
}
Get{
    <SematicKind>{{
        <Class>(
            explore: {
                concepts: [<String>]!
                moveAwayFrom: {
                    concepts: [<String>]!
                    force: <Float>!
                },
                moveTo: {
                    concepts: [<String>]!
                    force: <Float>!
                }
            }
        }
    }
}
Demo
Get started with Weaviate on www.semi.technology