

untitled-ontology-52 (http://www.semanticweb.org/avvm1/ontologies/2022/2/untitled-ontology-52) : [C:\Users\avvm1\Desktop\Ontology\Data Structure\Data Structure.owl]

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untitled-ontology-52 (http://www.semanticweb.org/avvm1/ontologies/2022/2/untitled-ontology-52) Search for entity

Active Ontology Entities Classes Object Properties Data Properties Annotation Properties Individuals OWLViz DL Query OntoGraf SPARQL Query Ontology Differences

Class hierarchy Class hierarchy (inferred)

Class hierarchy: Data\_Structure

- Thing
  - Data\_Structure
    - Linear
    - Non\_Linear

OntoGraf

Search: contains Search Clear

```
graph LR; Thing --> Data_Structure; Data_Structure --> Linear; Data_Structure --> Non_Linear;
```

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Active Ontology Entities Classes Object Properties Data Properties Annotation Properties Individuals OWLViz DL Query OntoGraf SPARQL Query Ontology Differences

Class hierarchy Class hierarchy (inferred)

Class hierarchy: Linear

- Thing
  - Data\_Structure
    - Linear
      - Arrays
      - Linked\_List
      - Queues
      - Stacks
    - Non\_Linear

OntoGraf:

Search: contains Search Clear

```
graph LR; Thing --> Data_Structure; Data_Structure --> Linear; Data_Structure --> Non_Linear; Linear --> Queues; Linear --> Stacks; Linear --> Arrays; Linear --> Linked_List
```

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Active Ontology Entities Classes Object Properties Data Properties Annotation Properties Individuals OWLViz DL Query OntoGraf SPARQL Query Ontology Differences

Class hierarchy Class hierarchy (inferred)

Class hierarchy: Queues

- Thing
  - Data\_Structure
    - Linear
      - Arrays
        - Multi\_Dimensional
        - One\_Dimensional
        - Pointer\_Array
      - Linked\_List
      - Queues
      - Stacks
      - Non\_Linear

OntoGraf:

Search: contains Search Clear

```
graph LR; Thing --> Data_Structure; Data_Structure --> Linear; Data_Structure --> Non_Linear; Linear --> Queues; Linear --> Stacks; Linear --> Arrays; Linear --> Linked_List; Queues --> Representation; Queues --> Application; Queues --> Types_of_Queues;
```

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Class hierarchy Class hierarchy (inferred)

Class hierarchy: Stacks

- Thing
  - Data\_Structure
    - Linear
      - Arrays
        - Multi\_Dimensional
        - One\_Dimensional
        - Pointer\_Array
      - Linked\_List
      - Queues
      - Stacks
      - Non\_Linear

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Class hierarchy Class hierarchy (inferred)

Class hierarchy: Arrays

- Thing
  - Data\_Structure
    - Linear
      - Arrays
        - Multi\_Dimensional
        - One\_Dimensional
        - Pointer\_Array
      - Linked\_List
      - Queues
      - Stacks
      - Non\_Linear

OntoGraf:

Search: contains Search Clear

```
graph LR; Thing --> Data_Structure; Data_Structure --> Linear; Data_Structure --> Non_Linear; Linear --> Queues; Linear --> Stacks; Linear --> Arrays; Arrays --> One_Dimensional; Arrays --> Pointer_Array; Arrays --> Multi_Dimensional; Non_Linear --> Linked_List;
```

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Class hierarchy Class hierarchy (inferred)

Class hierarchy: Linked\_List

- Thing
  - Data\_Structure
    - Linear
      - Arrays
        - Multi\_Dimensional
        - One\_Dimensional
        - Pointer\_Array
      - Linked\_List
      - Queues
      - Stacks
      - Non\_Linear

OntoGraf:

Search: contains Search Clear

```
graph LR; Thing --> Data_Structure; Data_Structure --> Linear; Data_Structure --> Non_Linear; Linear --> Queues; Linear --> Stacks; Linear --> Arrays; Linear --> Linked_List; Linked_List --> Applications; Linked_List --> Types; Linked_List --> Memory_Representation;
```

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Class hierarchy Class hierarchy (inferred)

Class hierarchy: Non\_Linear

- Thing
  - Data\_Structure
    - Linear
    - Non\_Linear
      - Graphs
      - Sets
      - Tables
      - Trees

OntoGraf

Search: contains Search Clear

```
graph LR; Thing --> Data_Structure; Data_Structure --> Linear; Data_Structure --> Non_Linear; Non_Linear --> Trees; Non_Linear --> Tables; Non_Linear --> Sets; Non_Linear --> Graphs;
```

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Class hierarchy Class hierarchy (inferred)

Class hierarchy: Graphs

- Thing
  - Data\_Structure
    - Linear
    - Non\_Linear
      - Graphs
        - Application\_of\_\_Graph\_Structure
        - Operations\_of\_\_Graph
        - Representation\_of\_\_Graph
      - Sets
      - Tables
      - Trees

OntoGraf:

Search: contains Search Clear

```
graph LR; Thing --> Data_Structure; Data_Structure --> Linear; Data_Structure --> Non_Linear; Linear --> Trees; Linear --> Tables; Non_Linear --> Sets; Non_Linear --> Graphs; Graphs --> Operations_of__Graph; Graphs --> Representation_of__Graph; Graphs --> Application_of__Graph_Structure
```

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Class hierarchy Class hierarchy (inferred)

Class hierarchy: Sets

- Thing
  - Data\_Structure
    - Linear
    - Non\_Linear
      - Graphs
      - Sets
        - Application\_of\_Sets
        - Operation
        - Representation\_of\_Sets
      - Tables
      - Trees

OntoGraf

Search: contains Search Clear

```
graph LR; Thing --> Data_Structure; Data_Structure --> Linear; Data_Structure --> Non_Linear; Linear --> Trees; Non_Linear --> Tables; Non_Linear --> Sets; Non_Linear --> Graphs; Sets --> Application_of_Sets; Sets --> Representation_of_Sets; Operation --> Representation_of_Sets;
```

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Class hierarchy Class hierarchy (inferred)

Class hierarchy: Tables

- Thing
  - Data\_Structure
    - Linear
      - Non\_Linear
        - Graphs
        - Sets
        - Tables**
        - Types\_of\_Tables
        - Trees

OntoGraf

Search: contains Search Clear

```
graph LR; Thing --> Data_Structure; Data_Structure --> Linear; Data_Structure --> Non_Linear; Linear --> Trees; Non_Linear --> Tables; Non_Linear --> Sets; Non_Linear --> Graphs; Tables --> Types_of_Tables;
```

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Class hierarchy Class hierarchy (inferred)

Class hierarchy: Trees

- Thing
  - Data\_Structure
    - Linear
    - Non\_Linear
      - Graphs
      - Sets
      - Tables
      - Trees
        - B+\_Tree\_Indexing
        - B\_Tree
        - Binary\_Tree
        - Tier\_Tree\_Indexing

OntoGraf:

Search: contains Search Clear

```
graph LR; Thing --> Data_Structure; Data_Structure --> Linear; Data_Structure --> Non_Linear; Non_Linear --> Graphs; Non_Linear --> Sets; Non_Linear --> Tables; Tables --> Trees; Trees --> B+_Tree_Indexing; Trees --> B_Tree; Trees --> Binary_Tree; Trees --> Tier_Tree_Indexing;
```

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Class hierarchy Class hierarchy (inferred)

Class hierarchy: Multi\_Dimensional

- Thing
  - Data\_Structure
    - Linear
      - Arrays
        - Multi\_Dimensional
          - Sparse\_Matrix
          - Three\_and\_N\_dimensional
          - Two\_Dimensional
          - One\_Dimensional
          - Pointer\_Array
        - Linked\_List
        - Queues
        - Stacks
        - Non\_Linear

OntoGraf:

Search: contains Search Clear

```
graph LR; Thing --> Data_Structure; Data_Structure --> Linear; Linear -- "+" --> Arrays; Linear -- "+" --> Non_Linear; Linear -- "+" --> Linked_List; Arrays -- "+" --> Multi_Dimensional; Multi_Dimensional --> One_Dimensional; Multi_Dimensional --> Two_Dimensional; Multi_Dimensional --> Three_and_N_dimensional; Multi_Dimensional --> Sparse_Matrix; Pointer_Array --> Multi_Dimensional; Queues -- "+" --> Linear; Stacks -- "+" --> Linear;
```

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Class hierarchy Class hierarchy (inferred)

Class hierarchy: Applications

- Thing
  - Data\_Structure
    - Linear
      - Arrays
      - Linked\_List
        - Applications
          - Polynomial\_Representation
          - Sparse\_matrix\_Manipulation
        - Memory\_Representation
      - Types
      - Queues
      - Stacks
    - Non\_Linear

OntoGraf:

Search: contains Search Clear

```
graph LR; Thing --> Data_Structure; Data_Structure --> Linear; Data_Structure --> Non_Linear; Linear --> Arrays; Linear --> Queues; Linear --> Stacks; Linear --> Linked_List; Linked_List --> Types; Linked_List --> Memory_Representation; Linked_List --> Applications; Applications --> Polynomial_Representation; Applications --> Sparse_matrix_Manipulation;
```

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Class hierarchy Class hierarchy (inferred)

Class hierarchy: Memory\_Representation

- Thing
  - Data\_Structure
    - Linear
      - Arrays
      - Linked\_List
        - Applications
        - Memory\_Representation
          - Fixed\_Block\_Storage
          - Variable\_Blck\_Storage
    - Non\_Linear
  - Types
  - Queues
  - Stacks
  - Non\_Linear

OntoGraf:

Search: contains Search Clear

```
graph LR; Thing --> Data_Structure; Data_Structure --> Linear; Data_Structure --> Non_Linear; Linear --> Arrays; Linear --> Queues; Linear --> Stacks; Linear --> Linked_List; Linked_List --> Memory_Representation; Linked_List --> Applications; Memory_Representation --> Fixed_Block_Storage; Memory_Representation --> Variable_Blck_Storage;
```

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Class hierarchy Class hierarchy (inferred)

Class hierarchy: Types

- Thing
  - Data\_Structure
    - Linear
      - Arrays
      - Linked\_List
        - Applications
        - Memory\_Representation
        - Types
          - Circular\_Linked\_List
          - Double\_Linked\_List
          - Single\_Linked\_List
    - Non\_Linear
  - Queues
  - Stacks
  - Non\_Linear

OntoGraf:

Search: contains Search Clear

```
graph LR; Thing --> Data_Structure; Data_Structure --> Linear; Data_Structure --> Non_Linear; Linear --> Arrays; Linear --> Queues; Linear --> Stacks; Linear --> Linked_List; Non_Linear --> Linked_List; Linked_List --> Memory_Representation; Linked_List --> Applications; Types --| Memory_Representation; Types --| Applications; Types --> Single_Linked_List; Types --> Double_Linked_List; Types --> Circular_Linked_List;
```

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Active Ontology Entities Classes Object Properties Data Properties Annotation Properties Individuals OWLViz DL Query OntoGraf SPARQL Query Ontology Differences

Class hierarchy Class hierarchy (inferred)

Class hierarchy: Application

- Thing
  - Data\_Structure
    - Linear
      - Arrays
      - Linked\_List
      - Queues
        - Application
          - CPU\_Scheduling\_in\_Multi\_Pro...
          - Programming\_Environment
          - Round\_Robin\_Method
          - Simulation
    - Non\_Linear
  - Representation
  - Types\_of\_Queues
  - Stacks

OntoGraf:

Search: contains Search Clear

```
graph LR; Thing --> Data_Structure; Data_Structure --> Linear; Data_Structure --> Non_Linear; Linear --> Arrays; Linear --> Queues; Linear --> Stacks; Queues --> Types_of_Queues; Queues --> Representation; Types_of_Queues --> Simulation; Representation --> CPU_Scheduling_in_Multi_Progra...; Representation --> Round_Robin_Met_hod; Application --> Programming_Env_ironment; Application --> Round_Robin_Met_hod; Application --> CPU_Scheduling_in_Multi_Progra...; Application --> Simulation; Application --> Representation; Application --> Types_of_Queues; Application --> Queues; Application --> Stacks; Application --> Linear; Application --> Non_Linear; Application --> Data_Structure; Application --> Thing;
```

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Class hierarchy Class hierarchy (inferred)

Class hierarchy: Representation

- Thing
  - Data\_Structure
    - Linear
      - Arrays
      - Linked\_List
      - Queues
        - Application
        - Representation
          - Queues\_using\_a\_Linked\_List
          - Queues\_using\_an\_Array
        - Types\_of\_Queues
          - Queues\_using\_a\_Linked\_List
        - Stacks
      - Non\_Linear
    - Non\_Linear

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Search: contains Search Clear

Thing Data\_Structure Linear Arrays Queues Application Representation Queues\_using\_a\_Linked\_List Queues\_using\_an\_Array Types\_of\_Queues Stacks Non\_Linear Linked\_List

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Class hierarchy Class hierarchy (inferred)

Class hierarchy: Types\_of\_Queuees

- Thing
  - Data\_Structure
    - Linear
      - Arrays
      - Linked\_List
      - Queues
        - Application
        - Representation
        - Types\_of\_Queuees
          - Circular\_Queue
          - Priority\_Queue
      - Stacks
      - Non\_Linear

OntoGraf:

Search: contains Search Clear

```
graph LR; Thing --> Data_Structure; Data_Structure --> Linear; Data_Structure --> Non_Linear; Linear --> Arrays; Linear --> Queues; Linear --> Stacks; Linear --> Linked_List; Queues --> Representation; Queues --> Application; Types_of_Queuees --> Circular_Queue; Types_of_Queuees --> Priority_Queue; Types_of_Queuees --| Queues
```

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Class hierarchy Class hierarchy (inferred)

Class hierarchy: Application\_of\_Stacks

- Thing
  - Data\_Structure
    - Linear
      - Arrays
      - Linked\_List
      - Queues
      - Stacks
        - Application\_of\_Stacks
          - Activation\_Record\_Manageme
          - Code\_Generation\_For\_Stack
          - Evaluation\_Of\_Arithmetic\_E
          - Factorial\_Calculation
          - Implementation\_of\_Recursio
          - Quick\_Sort
          - Tower\_of\_Hanoi\_Problem
        - Representation\_of\_Stacks
          - Quick\_Sort
          - Implementation\_of\_Recursion
          - Activation\_Reco
    - Non\_Linear
  - Non\_Linear

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Search: contains Search Clear

```
graph LR; Thing --> Data_Structure; Thing --> Non_Linear; Data_Structure --> Linear; Data_Structure --> Non_Linear; Linear --> Arrays; Linear --> Queues; Linear --> Stacks; Stacks --> Application_of_Stacks; Stacks --> Representation_of_Stacks; Application_of_Stacks --> Evaluation_Of_Arithmetic_Expr; Application_of_Stacks --> Factorial_Calculation; Application_of_Stacks --> Code_Generation_For_Stack_Ma; Application_of_Stacks --> Tower_of_Hanoi_Problem; Application_of_Stacks --> Quick_Sort; Application_of_Stacks --> Implementation_of_Recursion; Application_of_Stacks --> Activation_Reco; Representation_of_Stacks --> Quick_Sort; Representation_of_Stacks --> Implementation_of_Recursion;
```

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Class hierarchy Class hierarchy (inferred)

Class hierarchy: Representation\_of\_Stacks

- Thing
  - Data\_Structure
    - Linear
      - Arrays
      - Linked\_List
      - Queues
    - Stacks
      - Application\_of\_Stacks
      - Representation\_of\_Stacks
        - Array\_Representation
        - Linked\_List\_Representation
  - Non\_Linear

OntoGraf:

Search: contains Search Clear

```
graph LR; Thing --> Data_Structure; Data_Structure --> Linear; Data_Structure --> Non_Linear; Linear --> Arrays; Linear --> Queues; Linear --> Stacks; Stacks --> Application_of_Stacks; Stacks --> Representation_of_Stacks; Representation_of_Stacks --> Linked_List_Representation; Representation_of_Stacks --> Array_Representation; Linked_List
```

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Class hierarchy Class hierarchy (inferred)

Class hierarchy: Application\_of\_Graph\_Structure

- Thing
  - Data\_Structure
    - Linear
      - Arrays
      - Linked\_List
      - Queues
      - Stacks
    - Non\_Linear
      - Graphs
        - Application\_of\_Graph\_Structure
          - Connectivity\_in\_a\_Graph
          - Euler's\_and\_Hamiltonian\_Circu...
          - Shortest\_Path\_Problem
          - Topological\_Sorting
          - Operations\_of\_Graph
          - Representation\_of\_Graph
        - Sets
        - Tables
        - Trees

OntoGraf:

Search: contains Search Clear

Thing Data\_Structure Linear Non\_Linear Graphs Application\_of\_Graph\_Structure Connectivity\_in\_a\_Graph Euler's\_and\_Hamiltonian\_Circu... Shortest\_Path\_Problem Topological\_Sorting Operations\_of\_Graph Representation\_of\_Graph Sets Trees Tables

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Active Ontology Entities Classes Object Properties Data Properties Annotation Properties Individuals OWLViz DL Query OntoGraf SPARQL Query Ontology Differences

Class hierarchy Class hierarchy (inferred)

Class hierarchy: Operations\_of\_Graph

- Thing
  - Data\_Structure
    - Linear
      - Arrays
      - Linked\_List
      - Queues
      - Stacks
    - Non\_Linear
      - Graphs
        - Application\_of\_\_Graph\_Structure
        - Operations\_of\_\_Graph
          - Linked\_List\_Representation\_o
          - Matrix\_Representation\_of\_Gra
        - Representation\_of\_Graph
      - Sets
      - Tables
      - Trees

OntoGraf:

Search: contains Search Clear

```
graph LR; Thing --> Data_Structure; Data_Structure --> Linear; Data_Structure --> Non_Linear; Linear --> Arrays; Linear --> Linked_List; Linear --> Queues; Linear --> Stacks; Non_Linear --> Graphs; Non_Linear --> Sets; Non_Linear --> Trees; Non_Linear --> Tables; Graphs --> Application_of__Graph_Structure; Graphs --> Operations_of__Graph; Operations_of__Graph --> Linked_List_Representation_o; Operations_of__Graph --> Matrix_Representation_of_Gra; Representation_of_Graph
```

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Active Ontology Entities Classes Object Properties Data Properties Annotation Properties Individuals OWLViz DL Query OntoGraf SPARQL Query Ontology Differences

Class hierarchy Class hierarchy (inferred)

Class hierarchy: Representation\_of\_Graph

- Thing
  - Data\_Structure
    - Linear
      - Arrays
      - Linked\_List
      - Queues
      - Stacks
    - Non\_Linear
      - Graphs
        - Application\_of\_\_Graph\_Structure
        - Operations\_of\_Graph
        - Representation\_of\_Graph
          - LinkedList
          - Matrix
          - Set
      - Sets
      - Tables
      - Trees

OntoGraf:

Search: contains Search Clear

```
graph LR; Thing --> Data_Structure; Data_Structure --> Linear; Data_Structure --> Non_Linear; Linear --> Arrays; Linear --> Linked_List; Linear --> Queues; Linear --> Stacks; Non_Linear --> Graphs; Non_Linear --> Sets; Non_Linear --> Tables; Non_Linear --> Trees; Graphs --> Application_of__Graph_Structure; Graphs --> Operations_of_Graph; Graphs --> Representation_of_Graph; Representation_of_Graph --> LinkedList; Representation_of_Graph --> Matrix; Representation_of_Graph --> Set; Application_of__Graph_Structure --> Set;
```

Paint

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Active Ontology Entities Classes Object Properties Data Properties Annotation Properties Individuals OWLViz DL Query OntoGraf SPARQL Query Ontology Differences

Class hierarchy Class hierarchy (inferred)

Class hierarchy: Application\_of\_Sets

- Thing
  - Data\_Structure
    - Linear
      - Arrays
      - Linked\_List
      - Queues
      - Stacks
    - Non\_Linear
      - Graphs
      - Sets
        - Application\_of\_Sets
          - Client\_Server\_Environment
          - Information\_System\_and\_Bit\_Str...
          - Spelling\_Checker
        - Operation
        - Representation\_of\_Sets
      - Tables
      - Trees

OntoGraf:

Search: contains Search Clear

```
graph LR; Thing --> Data_Structure; Data_Structure --> Linear; Data_Structure --> Non_Linear; Linear --> Arrays; Linear --> Linked_List; Linear --> Queues; Linear --> Stacks; Non_Linear --> Graphs; Non_Linear --> Sets; Non_Linear --> Tables; Non_Linear --> Trees; Sets --> Operation; Sets --> Representation_of_Sets; Representation_of_Sets --> Application_of_Sets; Application_of_Sets --> Client_Server_Environment; Application_of_Sets --> Information_System_and_Bit_Str...; Application_of_Sets --> Spelling_Checker;
```

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Active Ontology Entities Classes Object Properties Data Properties Annotation Properties Individuals OWLViz DL Query OntoGraf SPARQL Query Ontology Differences

Class hierarchy Class hierarchy (inferred)

Class hierarchy: Representation\_of\_Sets

- Thing
  - Data\_Structure
    - Linear
      - Arrays
      - Linked\_List
      - Queues
      - Stacks
    - Non\_Linear
      - Graphs
      - Sets
        - Application\_of\_Sets
        - Operation
      - Representation\_of\_Sets
        - Bit\_Vector\_Representation\_of\_S...
        - Hash\_Vector\_Representation\_of...
        - LinkedList\_Representation\_of...
        - Tree\_Representation\_of\_Sets
    - Tables
    - Trees

OntoGraf:

Search: contains Search Clear

```
graph LR; Thing --> Data_Structure; Data_Structure --> Linear; Data_Structure --> Non_Linear; Linear --> Arrays; Linear --> Linked_List; Linear --> Queues; Linear --> Stacks; Non_Linear --> Graphs; Non_Linear --> Sets; Non_Linear --> Tables; Sets --> Application_of_Sets; Sets --> Operation; Graphs --> Trees; Representation_of_Sets --> Bit_Vector_Representation_of_S...; Representation_of_Sets --> Hash_Vector_Representation_of...; Representation_of_Sets --> LinkedList_Representation_of_S...; Representation_of_Sets --> Tree_Representation_of_Sets;
```

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Active Ontology Entities Classes Object Properties Data Properties Annotation Properties Individuals OWLViz DL Query OntoGraf SPARQL Query Ontology Differences

Class hierarchy Class hierarchy (inferred)

Class hierarchy: Hash\_Table

- Thing
  - Data\_Structure
    - Linear
      - Arrays
      - Linked\_List
      - Queues
      - Stacks
    - Non\_Linear
      - Graphs
      - Sets
      - Tables
        - Types\_of\_Tables
          - Hash\_Table
            - Closed\_Hashing
            - Collision\_Resolution\_Techniques
            - Hashing\_Techniques
            - Open\_Hashing
            - Inverted\_Table
            - Jagged\_Table
            - Rectangular\_Table
    - Trees

OntoGraf:

Search: contains Search Clear

Thing Data\_Structure Linear Non\_Linear Sets Graphs Trees Types\_of\_Tables Hash\_Table Closed\_Hashing Collision\_Resolution\_Techniques Hashing\_Techniques Open\_Hashing Inverted\_Table Jagged\_Table Rectangular\_Table

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Active Ontology Entities Classes Object Properties Data Properties Annotation Properties Individuals OWLViz DL Query OntoGraf SPARQL Query Ontology Differences

Class hierarchy Class hierarchy (inferred)

Class hierarchy: B\_Tree

- Thing
  - Data\_Structure
    - Linear
      - Arrays
      - Linked\_List
      - Queues
      - Stacks
    - Non\_Linear
      - Graphs
      - Sets
      - Tables
      - Trees
        - B+\_Tree\_Indexing
        - B\_Tree
          - B\_tree\_Indexing
          - Lower\_and\_Upper\_Bounds\_of
          - Operations\_on\_a\_B\_Tree
        - Binary\_Tree
        - Tier\_Tree\_Indexing

OntoGraf:

Search: contains Search Clear

```
graph LR; Thing --> Data_Structure; Data_Structure --> Linear; Data_Structure --> Non_Linear; Linear --> Sets; Non_Linear --> Graphs; Non_Linear --> Trees; Trees --> Bp_Tri_Indexing[B+_Tree_Indexing]; Trees --> B_Tree; Trees --> Tables; B_Tree --> Btri_Indexing[B_tree_Indexing]; B_Tree --> Ops_On_a_B_Tree[Operations_on_a_B_Tree]; B_Tree --> Lower_Upper_Bounds[Lower_and_Upper_Bounds_of_B_Tr...]; Tier_Tree_Indexing
```

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Search for entity

Active Ontology Entities Classes Object Properties Data Properties Annotation Properties Individuals OWLViz DL Query OntoGraf SPARQL Query Ontology Differences

Class hierarchy Class hierarchy (inferred)

Class hierarchy: Binary\_Tree

Thing

Data\_Structure

Linear

Arrays

Linked\_List

Queues

Stacks

Non\_Linear

Graphs

Sets

Tables

Trees

B+\_Tree\_Indexing

B\_Tree

Binary\_Tree

Operations

Types\_of\_Binary\_Tree

Tier\_Tree\_Indexing

OntoGraf

Search: contains Search Clear

Thing

Data\_Structure

Linear

Non\_Linear

Sets

Graphs

Trees

Tables

B+\_Tree\_Indexing

B\_Tree

Tier\_Tree\_Indexing

Binary\_Tree

Types\_of\_Binary\_Tree

Operations

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Active Ontology Entities Classes Object Properties Data Properties Annotation Properties Individuals OWLViz DL Query OntoGraf SPARQL Query Ontology Differences

Class hierarchy Class hierarchy (inferred)

Class hierarchy: Operations

Thing

Data\_Structure

Linear

Arrays

Linked\_List

Queues

Stacks

Non\_Linear

Graphs

Sets

Tables

Trees

B+\_Tree\_Indexing

B\_Tree

Binary\_Tree

Operations

Deletion

Insertion

Merging

Traversal

Types\_of\_Binary\_Tree

Tier\_Tree\_Indexing

OntoGraf

Search: contains Search Clear

Thing

Data\_Structure

Linear

Non\_Linear

Sets

Graphs

Trees

Tables

B+\_Tree\_Indexing

Binary\_Tree

Tier\_Tree\_Indexing

Types\_of\_Binary\_Tree

Operations

Insertion

Deletion

Traversal

Merging

To use the reasoner click Reasoner->Start reasoner

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Active Ontology Entities Classes Object Properties Data Properties Annotation Properties Individuals OWLViz DL Query OntoGraf SPARQL Query Ontology Differences

Class hierarchy Class hierarchy (inferred)

Class hierarchy: Threaded\_Binary\_Tree

- Thing
  - Data\_Structure
    - Linear
      - Arrays
      - Linked\_List
      - Queues
      - Stacks
    - Non\_Linear
      - Graphs
      - Sets
      - Tables
      - Trees
        - B+\_Tree\_Indexing
        - B\_Tree
        - Binary\_Tree
          - Operations
          - Types\_of\_Binary\_Tree
            - Binary\_Search\_Tree
            - Decision\_Tree
            - Expression\_Tree
            - Heap\_Tree
            - Height\_Balanced\_Binary\_Tree
            - Red\_Black\_Tree
            - Splay\_Tree
            - Threaded\_Binary\_Tree
            - Weighted\_Binary\_Tree

OntoGraf:

Search: contains Search Clear

Thing Data\_Structure Linear Non\_Linear Graphs Sets Tables B+\_Tree\_Indexing B\_Tree Binary\_Tree Operations Types\_of\_Binary\_Tree Binary\_Search\_Tree Decision\_Tree Expression\_Tree Heap\_Tree Height\_Balanced\_Binary\_Tree Red\_Black\_Tree Splay\_Tree Threaded\_Binary\_Tree Weighted\_Binary\_Tree

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Active Ontology Entities Classes Object Properties Data Properties Annotation Properties Individuals OWLViz DL Query OntoGraf SPARQL Query Ontology Differences

Class hierarchy Class hierarchy (inferred)

Class hierarchy: Tier\_Tree\_Indexing

- Thing
  - Data\_Structure
    - Linear
      - Arrays
      - Linked\_List
      - Queues
      - Stacks
    - Non\_Linear
      - Graphs
      - Sets
      - Tables
      - Trees
        - B+\_Tree\_Indexing
        - B\_Tree
        - Binary\_Tree
        - Tier\_Tree\_Indexing
          - Trier\_Tree\_Structure

OntoGraf:

Search: contains Search Clear

```
graph LR; Thing --> Data_Structure; Data_Structure --> Linear; Data_Structure --> Non_Linear; Linear --> Arrays; Linear --> Linked_List; Linear --> Queues; Linear --> Stacks; Non_Linear --> Graphs; Non_Linear --> Sets; Non_Linear --> Tables; Non_Linear --> Trees; Trees --> B+_Tree_Indexing; Trees --> B_Tree; Trees --> Binary_Tree; Trees --> Tier_Tree_Indexing; Tier_Tree_Indexing --> Trier_Tree_Structure; style Tables stroke:#00FF00,stroke-width:2px;
```

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