

Data

Definition

Data is a representation of facts, [concepts](#), or instructions in a formalized manner, suitable for communication, interpretation, or processing by humans or by automatic means.

DMBOK2

Data represents facts/things other than itself. Data is both an interpretation of the objects it represents and an object that must be interpreted.

Note

Data is a business asset, while not tangible, it has value and can be managed.

Relation

| | | |
|------|--------------|-------------------------|
| Data | is parent of | file |
| Data | is parent of | dataset |
| Data | is child of | concept |
| Data | is child of | fact |
| Data | is child of | instruction |

Characteristics

See [data quality dimensions](#).

Life cycle

The life cycle of data in alphabetical order is:

- Aggregate data
- Align data
- Analyse data
- Annotate data
- Anonymize data
- Archive data
- Arrange data
- Apply data
- Assess data
- Audit data
- Benchmark data

- Blend data
- Calculate data
- Categorize data
- Change data
- Clean data
- Cluster data
- Collect data
- Compare data
- Complete data
- Compress data
- Consolidate data
- Consume data
- Convert data
- Copy data
- Correlate data
- Create data
- Cross-reference data
- Decode data
- Decrypt data
- De-duplicate data
- De-identify data
- Delete data
- Deliver data
- Describe data
- Design data ([data design](#))
- Detect data
- Differentiate data
- Disaggregate data
- Distribute data
- Dispose data
- Encode data
- Encrypt data
- Enrich data
- Evaluate data
- Expand data
- Export data
- Extract data
- Extrapolate data
- Filter data
- Forecast data
- Generate data
- Group data
- Harmonize data
- Highlight data
- Identify data
- Import data
- Impute data
- Index data
- Infer data
- Integrate data ([data integration](#))
- Interpolate date

- Interpret data
- Isolate data
- Link data
- Locate data
- Map data
- Merge data
- Migrate data
- Mine data
- Model data ([data modeling](#) | [data model](#))
- Monetize data
- Move data
- Normalize data
- Observe data
- Optimize data
- Organize data
- Partition data
- Process data
- Procure data
- Protect data
- Pseudonymize data
- Publish data
- Reconcile data
- Record data
- Reformat data
- Regulate data
- Report data
- Review data
- Secure data ([data security](#))
- Segment data
- Standardize data
- Store data ([data storage](#) | [data store](#))
- Structure data ([data structuring](#) | [data structure](#))
- Summarize data
- Use data
- Validate data
- Verify data
- Visualize data

References

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ISO 2382-4. Information technology — Vocabulary — Part 4: Organization of data.

All, [DMBoK2](#)

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