

# 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 | <a href="#">file</a>    |
| Data | is parent of | <a href="#">dataset</a> |
| Data | is child of  | <a href="#">concept</a> |
| 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

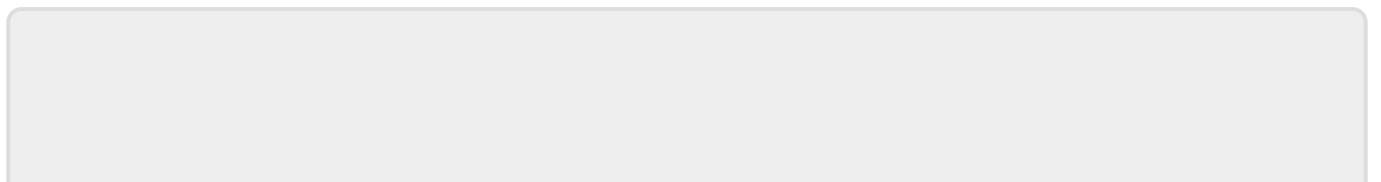
- Blend data
- Calculate data
- Categorize data
- Change data
- Clean data
- Cluster data
- Collect data
- Compare data
- Complete data
- Compress data
- Consume data
- Convert data
- Copy data
- Correlate data
- Create data
- Cross-reference data
- Decode data
- Decrypt data
- De-duplicate data
- De-identify 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](#))
- 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](#))
- Structure data
- Summarize data
- Use data
- Validate data
- Verify data
- Visualize data

## References

DAMA NL (2020). Data concepts for Data Quality Dimensions (DSC). Research paper.  
<https://www.dama-nl.org/wp-content/uploads/2020/09/DCS-Data-Concept-System-DDQ-Research-Paper-version-1.2-d.d.-3-Sept-2020.pdf>

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



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