Why

We discuss partitioning a dataset.

Definition

Let X a set. A *partitioner* (*clusterer* or *segmenter*) is a function mapping a dataset in X^n to a partition of $\{1, \ldots, n\}$.

Partitioner

Datasets

Sequences

Direct Products

Set Numbers

Finite Sets

Equivalent Sets

Function Inverses

Natural Order

Family Unions and Intersections

Function Images

Function Composites

Families

Peano Axioms

Functions

Natural Induction

Equivalence Relations

Partitions

Relations

Cartesian Products

Natural Numbers

Generalized Set Dualities

Set Powers

Successor Sets

Intersection of Empty Set

Unordered Triples

Set Dualities

Set Unions and Intersections

Set Intersections

Pair Unions

Set Complements

Pair Intersections

Ordered Pairs

Set Differences

Set Unions

Unordered Pairs

Empty Set

Set Specification

Set Inclusion

Standardized Accounts

Accounts

Deductions

Quantified Statements

Logical Statements

Statements

Identities

Sets

Names

Letters

Objects