

NautyTracesInterface

An interface to nauty

0.2

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Chapter 1

NautyTracesInterface automatic generated documentation

1.1 NautyTracesInterface automatic generated documentation of attributes

1.1.1 AutomorphismGroup (for IsNautyGraph)

▷ AutomorphismGroup(*arg*) (attribute)

1.1.2 AutomorphismGroupGenerators (for IsNautyGraph)

▷ AutomorphismGroupGenerators(*arg*) (attribute)

1.1.3 CanonicalLabeling (for IsNautyGraph)

▷ CanonicalLabeling(*arg*) (attribute)

1.1.4 CanonicalLabelingInverse (for IsNautyGraph)

▷ CanonicalLabelingInverse(*arg*) (attribute)

1.1.5 CanonicalForm (for IsNautyGraph)

▷ CanonicalForm(*arg*) (attribute)

1.1.6 NodeLabeling (for IsNautyGraphWithNodeLabels)

▷ NodeLabeling(*arg*) (attribute)

1.1.7 UnderlyingNautyGraph (for IsNautyGraphWithNodeLabels)

▷ UnderlyingNautyGraph(*arg*) (attribute)

1.2 NautyTracesInterface automatic generated documentation of methods**1.2.1 IsomorphismGraphs (for IsNautyGraph, IsNautyGraph)**

▷ IsomorphismGraphs(*arg1*, *arg2*) (operation)

1.2.2 IsomorphicGraphs (for IsNautyGraph, IsNautyGraph)

▷ IsomorphicGraphs(*arg1*, *arg2*) (operation)

1.2.3 NautyGraph (for IsList)

▷ NautyGraph(*arg*) (operation)

1.2.4 NautyGraph (for IsList, IsInt)

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▷ NautyDiGraph(*arg*) (operation)

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▷ NautyDiGraph(*arg1*, *arg2*) (operation)

1.2.7 NautyColoredGraph (for IsList, IsList)

▷ NautyColoredGraph(*arg1*, *arg2*) (operation)

1.2.8 NautyColoredDiGraph (for IsList, IsList)

▷ NautyColoredDiGraph(*arg1*, *arg2*) (operation)

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▷ NautyEdgeColoredGraph(*arg*) (operation)

1.2.10 NautyEdgeColoredGraph (for IsList, IsInt)

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1.2.11 NautyGraphWithNodeLabels (for IsList, IsList)

▷ NautyGraphWithNodeLabels(*edges*, *labeling*) (operation)

▷ NautyDiGraphWithNodeLabels(*edges*, *labeling*) (operation)

▷ NautyColoredGraphWithNodeLabels(*edges*, *colors*, *labeling*) (operation)

▷ NautyColoredDiGraphWithNodeLabels(*edges*, *colors*, *labeling*) (operation)

Returns: a NautyGraph

Construct a nauty (di)graph with optional vertex coloring.

Arguments:

- **labeling:** dense list of positive integers (positions are the nodes of the underlying nauty graph, entries are node labels)
- **edges:** dense list of edges, encoded as pairs of node labels
- **coloring (optional):** dense list of colors (positive integers), indexed by the nodes of the underlying nauty graph

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