

# NautyTracesInterface

**An interface to nauty**

0.2

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# Chapter 1

## NautyTracesInterface automatic generated documentation

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▷ AutomorphismGroup(*arg*) (attribute)

#### 1.1.2 AutomorphismGroupGenerators (for IsNautyGraph)

▷ AutomorphismGroupGenerators(*arg*) (attribute)

#### 1.1.3 CanonicalLabeling (for IsNautyGraph)

▷ CanonicalLabeling(*arg*) (attribute)

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▷ CanonicalLabelingInverse(*arg*) (attribute)

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▷ CanonicalForm(*arg*) (attribute)

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▷ NodeLabeling(*arg*) (attribute)

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▷ UnderlyingNautyGraph(*arg*) (attribute)

## 1.2 NautyTracesInterface automatic generated documentation of methods

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

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

### 1.2.3 NautyGraph (for IsList)

▷ NautyGraph(*arg*) (operation)

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▷ 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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