read_gml

```
read_gml(path, Label='label', destringizer=None)
```

[source]

Read graph in GML format from path.

Parameters:

path: filename or filehandle

The filename or filehandle to read from.

label: string, optional

If not None, the parsed nodes will be renamed according to node attributes indicated by label. Default value: 'label'.

destringizer : callable, optional

A **destringizer** that recovers values stored as strings in GML. If it cannot convert a string to a value, a **ValueError** is raised. Default value: None.

Returns:

G: NetworkX graph

The parsed graph.

Raises:

NetworkXError

If the input cannot be parsed.

```
See also

write_gml, parse_gml

literal_destringizer
```

Notes

GML files are stored using a 7-bit ASCII encoding with any extended ASCII characters (iso8859-1) appearing as HTML character entities. Without specifying a stringizer / destringizer, the code is capable of writing int/float/str/dict/list data as required by the GML specification. For writing other data types, and for reading data other than str you need to explicitly supply a stringizer / destringizer.

For additional documentation on the GML file format, please see the GML url.

See the module docstring [networkx.readwrite.gml] for more details.

Examples

```
>>> G = nx.path_graph(4)
>>> nx.write_gml(G, "test.gml")
```

GML values are interpreted as strings by default:

```
>>> H = nx.read_gml("test.gml")
>>> H.nodes
NodeView(('0', '1', '2', '3'))
```

When a **destringizer** is provided, GML values are converted to the provided type. For example, integer nodes can be recovered as shown below:

```
>>> J = nx.read_gml("test.gml", destringizer=int)
>>> J.nodes
NodeView((0, 1, 2, 3))
```

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