

Package ‘graycode’

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Type Package

Title Binary to Gray Code Conversion

Version 0.1.0

Description Provides a pure R implementation for converting
binary strings to their corresponding Gray code representation.

Encoding UTF-8

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URL <https://github.com/whitesymmetry/grikodr/>

BugReports <https://github.com/whitesymmetry/grikodr/issues/>

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Depends R (>= 3.1)

RoxygenNote 7.3.3

Roxygen list(markdown = TRUE)

Suggests knitr, rmarkdown, testthat (>= 3.0.0)

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NeedsCompilation no

Materials README, NEWS

Package source graycode_0.1.0.tar.gz

Config/testthat.edition 3

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`binary_to_gray` *Convert a Binary String to Gray Code*

Description

Converts a binary string consisting of characters 0 and 1 into its standard Gray code representation.

Usage

```
binary_to_gray(binary)
```

Arguments

<code>binary</code>	A character string containing only characters 0 and 1.
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Details

The Gray code is computed using:

$$G = n \oplus (n >> 1)$$

Constraints:

- Maximum 64 bits
- Only characters 0 and 1 allowed

Value

A character string representing the Gray code.

Examples

```
binary_to_gray("1010")
binary_to_gray("1100")
```

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