Glib::Variant(3pm)

NAME

Glib::Variant - strongly typed value datatype

SYNOPSIS

```
my $v = Glib::Variant->new ('as', ['GTK+', 'Perl']);
my $aref = $v->get ('as');
```

DESCRIPTION

There are two sets of APIs for creating and dealing with Glib::Variants: the low-level API described below under "METHODS", and the convenience API described in this section.

CONVENIENCE API

```
variant = Glib::Variant->new ($format_string, $value)
(variant1, ...) = Glib::Variant->new ($format_string, $value1, ...)
```

Constructs a variant from \$format_string and \$value. Also supports constructing multiple variants when the format string is a concatenation of multiple types.

```
value = $variant->get ($format_string)
```

 $Deconstructs \ \$variant \ according \ to \ \$format_string.$

The following symbols are currently supported in format strings:

Symbol	Meaning
b, y, n, q, i, u, x, t, h, d s, o, g v a m () {}	Boolean, byte and numeric types String types Variant types Arrays Maybe types Tuples Dictionary entries

Note that if a format string specifies an array, a tuple or a dictionary entry ("a", "()" or "{}"), then array references are expected by new and produced by get. For arrays of dictionary entries ("a{}"), hash references are also supported by new and handled as you would expect.

For a complete specification, see the documentation at

```
<a href="https://developer.gnome.org/glib/stable/glib-GVariantType.html">https://developer.gnome.org/glib/stable/glib-GVariantType.html</a>
```

https://developer.gnome.org/glib/stable/gvariant-format-strings.html

https://developer.gnome.org/glib/stable/gvariant-text.html

HIERARCHY

Glib::Variant

METHODS

variant = Glib::Variant->new_array (\$child_type, \$children)

- \$child_type (Glib::VariantType)
- \$children(scalar)

variant = Glib::Variant->new_boolean (\$value)

• \$value (boolean)

variant = Glib::Variant->new_byte (\$value)

• \$value (Glib::UChar)

variant = Glib::Variant->new_bytestring (\$string)

• \$string (byte string)

Since: glib 2.26

https://developer.gnome.org/glib/stable/glib-GVariant.html

variant = Glib::Variant->new_dict_entry (\$key, \$value) \$key (Glib::Variant) \$value (Glib::Variant) variant = Glib::Variant->new_double (\$value) \$value (double) variant = Glib::Variant->new_handle (\$value) \$value (integer) variant = Glib::Variant->new_int16 (\$value) \$value (integer) variant = Glib::Variant->new_int32 (\$value) • \$value (integer) variant = Glib::Variant->new_int64 (\$value) \$value (64 bit integer) variant = Glib::Variant->new_maybe (\$child_type, \$child) \$child_type (Glib::VariantType) \$child (Glib::Variant) variant = Glib::Variant->new_object_path (\$object_path) \$object_path (string) variant = Glib::Variant->new_signature (\$signature) \$signature(string) variant = Glib::Variant->new_string (\$string) \$string (string) variant = Glib::Variant->new_tuple (\$children) \$children (scalar) variant = Glib::Variant->new_uint16 (\$value) \$value (unsigned) variant = Glib::Variant->new_uint32 (\$value) • \$value (unsigned) variant = Glib::Variant->new_uint64 (\$value) \$value (64 bit unsigned) variant = Glib::Variant->new_variant (\$value) \$value (Glib::Variant) boolean = \$value->get_boolean uchar = \$value->get_byte string = \$value->get_bytestring Since: glib 2.26 variant = \$value->byteswap variant = \$value->get_child_value (\$index_) • \$index_(unsigned) string = \$value->classify integer = \$one->compare (\$two) \$two (Glib::Variant)

Since: glib 2.26

double = \$value->get_double

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```
boolean = $one->equal ($two)
       $two (Glib::Variant)
integer = $value->get_handle
integer = $value->hash
integer = $value->get_int16
integer = $value->get_int32
64 bit integer = $value->get_int64
boolean = $value->is_container
boolean = $value->is_normal_form
boolean = $string->is_object_path
boolean = $value->is_of_type ($type)
        $type (Glib::VariantType)
boolean = $string->is_signature
variant = $dictionary->lookup_value ($key, $expected_type)
        $key (string)
         $expected_type (Glib::VariantType)
    Since: glib 2.28
variant = $value->get_maybe
unsigned = $value->n_children
variant = $value->get_normal_form
variant = Glib::Variant::parse ($type, $text)
        $type (Glib::VariantType)
        $text (string)
    May croak with a Glib::Error in $@ on failure.
string = $value->print ($type_annotate)
        $type_annotate (boolean)
unsigned = $value->get_size
string = $value->get_string
varianttype = $value->get_type
```

```
string = $value->get_string
varianttype = $value->get_type
string = $value->get_type_string
unsigned = $value->get_uint16
unsigned = $value->get_uint32
64 bit unsigned = $value->get_uint64
variant = $value->get_variant
SEE ALSO
```

Glib; Glib::VariantType, Glib::VariantDict

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