

# Package: wavecolour (via r-universe)

February 25, 2025

**Type** Package

**Title** HEX VALUES FOR VISIBLE WAVELENGTHS

**Version** 0.1.0

**Author** Mikkel Roald-Arbøl

**Maintainer** The package maintainer <yourself@somewhere.net>

**Description** Converts wavelength in the range of 380 nm through 750 nm to hex codes.

**License** MIT + file LICENSE

**Encoding** UTF-8

**LazyData** true

**RoxygenNote** 7.1.2

**Depends** ggplot2

**Repository** <https://roaldarbol.r-universe.dev>

**RemoteUrl** <https://github.com/roaldarbol/wavecolour>

**RemoteRef** HEAD

**RemoteSha** b2d65305450906ac778a09acf0d7475407a59466

## Contents

rgb_to_hex . . . . .	2
scale_colour_wavelength . . . . .	2
wavelength_pal . . . . .	3
wavelength_to_hex . . . . .	3
wavelength_to_rgb . . . . .	4

<b>Index</b>	<b>5</b>
--------------	----------

rgb\_to\_hex

*RGB to Hex*

---

**Description**

RGB to Hex

**Usage**

rgb\_to\_hex( RGB )

**Arguments**

RGB                    3 element vector of RGB values

**Value**Hex code

---

scale\_colour\_wavelength

*Wavelength Color and Fill Scales*

---

**Description**

Color scales based on the USDA Pomological Watercolors paintings.

**Usage**

```
scale_colour_wavelength(  
  palette = "wavelength",  
  discrete = FALSE,  
  alpha = 1,  
  reverse = FALSE  
)
```

```
scale_color_wavelength(  
  palette = "wavelength",  
  discrete = FALSE,  
  alpha = 1,  
  reverse = FALSE  
)
```

```
scale_fill_wavelength(  
  palette = "wavelength",
```

```

    discrete = FALSE,
    alpha = 1,
    reverse = FALSE
  )

```

### Arguments

palette	Wavelength palette
discrete	Whether to use a discrete scale. Default is FALSE.
alpha	Transparency
reverse	Logical, Reverse the order of the colours?

---

wavelength_pal	<i>Wavelength Color and Fill Scales</i>
----------------	---

---

### Description

Color scales based on the USDA Pomological Watercolors paintings.

### Usage

```
wavelength_pal(palette = "wavelength", alpha = 1, reverse = FALSE)
```

### Arguments

palette	Wavelength palette
alpha	Transparency
reverse	Logical, Reverse the order of the colours?

---

wavelength_to_hex	<i>Wavelength to Hex</i>
-------------------	--------------------------

---

### Description

Wavelength to Hex

### Usage

```
wavelength_to_hex(wavelength, gamma = 0.8)
```

### Arguments

wavelength	Wavelength in nm
gamma	Gamma

### Value

Hex code

---

wavelength_to_rgb	<i>Wavelength to RGB</i>
-------------------	--------------------------

---

**Description**

Wavelength to RGB

**Usage**

```
wavelength_to_rgb(wavelength, gamma = 0.8)
```

**Arguments**

wavelength	Wavelength in nm
gamma	Gamma

**Value**

RGB values

# Index

`rgb_to_hex`, [2](#)

`scale_color_wavelength`  
    (`scale_colour_wavelength`), [2](#)  
`scale_colour_wavelength`, [2](#)  
`scale_fill_wavelength`  
    (`scale_colour_wavelength`), [2](#)

`wavelength_pal`, [3](#)  
`wavelength_to_hex`, [3](#)  
`wavelength_to_rgb`, [4](#)