

# Converting Colors

XYZ(47.8002, 64.6765, 25.2937)

Have a look what the booklet for  
XYZ(47.8002, 64.6765, 25.2937)  
contains.

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# Color

**XYZ(47.8002, 64.6765,  
25.2937)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	<a href="#">AFE270</a>
RGB	<a href="#">175, 226, 112</a>
RGB Percent	<a href="#">69%, 89%, 44%</a>
CMY	<a href="#">0.3137, 0.1137, 0.5608</a>
CMYK	<a href="#">0.23, 0.00, 0.50, 0.11</a>
HSL	<a href="#">87°, 66%, 66%</a>
HSV	<a href="#">87°, 50%, 89%</a>
XYZ	<a href="#">47.8002, 64.6765, 25.2937</a>
YIQ	<a href="#">197.7550, 6.1980, -46.2660</a>

# Conversions

## Conversions Part 2

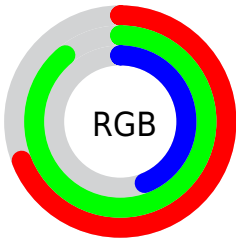
<b>Format</b>	<b>Color</b>
<b>RYB</b>	112, 226, 163
Decimal	11526768
CIELab	84.32, -34.78, 50.01
CIELCh	84, 60.919, 124.816
Yxy	64.6765, 0.3470, 0.4695
Android (android.graphics.Color)	4289716848 (0xFFAFE270)
YUV	197.7550, -42.2772, -19.9561
Hunter-Lab	80.4217, -34.6430, 37.6477

# Details

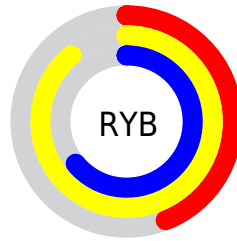
The XYZ color **47.8002, 64.6765, 25.2937** is a light color, and the websafe version is hex **99CC66**. A complement of this color would be **34.6285, 24.8677, 74.9299**, and the grayscale version is **53.7751, 56.5756, 61.6109**.

A 20% lighter version of the original color is **75.9216, 91.4290, 49.7225**, and **22.9361, 33.0688, 9.4490** is the 20% darker color. If you saturate the color by 10%, you get **44.5118, 63.1109, 19.3757**, and if you desaturate by 10%, it is **51.5776, 66.4618, 32.8856**.

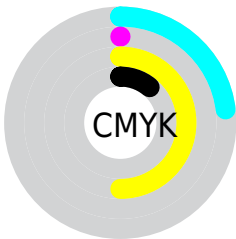
# Distribution



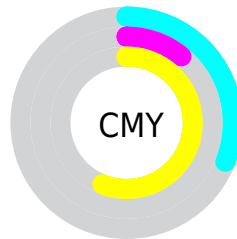
- Red (69%)
- Green (89%)
- Blue (44%)



- Red (44%)
- Yellow (89%)
- Blue (64%)



- Cyan (23%)
- Magenta (0%)
- Yellow (50%)
- Black (11%)




- Cyan (31%)
- Magenta (11%)
- Yellow (56%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 47.8002, 64.6765, 25.2937 changes by changing the brightness by 10 percent. The first figure shows a shift by +10% for each color and the second figure -10%.


Similar to the brightness gradients but the following saturation gradients show a change of the XYZ color 47.8002, 64.6765, 25.2937 by changing the saturation by 10% instead.





 47.8002, 64.6765,  
25.2937


 47.8002, 64.6765,  
25.2937


368.5954,  
441.6285, 292.7918

 33.8793, 47.1988,  
16.0750


 86.1183, 111.5846,  
53.1033

 22.9633, 33.1929,  
9.4223

 111.2463,  
141.7839, 72.5313

 14.6870, 22.2742,  
4.9171


 140.8406,  
176.9924, 96.1995

 8.6849, 14.0585,  
2.1408

175.2667,  
217.5947, 124.5263

 4.5917, 8.1614,  
0.6399

214.8898,  
263.9750, 157.9305

 2.0420, 4.1984,  
0.0000

260.0754,

 0.6574, 1.7851,

316.5178, 196.8304

0.0000

311.1888,  
375.6075, 241.6447

0.0000, 0.4779,  
0.0000

0.0000, 0.0000,  
0.0000

47.8002, 64.6765,  
25.2937

47.8002, 64.6765,  
25.2937

44.5118, 63.1109,  
19.3757

51.5776, 66.4618,  
32.8856

41.6797, 61.7448,  
15.0003


55.8644, 68.4686,  
42.2611


39.2744, 60.5682,  
12.0237


60.6853, 70.7096,  
53.5256

37.2588, 59.5658,  
10.2727

66.0620, 73.1937,  
66.7749

 35.6391, 58.7471,  
9.4610

 72.0147, 75.9293,  
82.0984

 78.5623, 78.9247,  
99.5802

 83.1770, 81.1687,  
105.8910

 86.4877, 82.8754,  
106.0459

# Harmonies

## Analogous

The Analogous color harmony consists of three colors that are next to each other on the color wheel.



59.3176, 64.6765, 19.2531



47.8002, 64.6765, 25.2937



40.8311, 64.6765, 43.2663

# Triad

The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



47.8002, 64.6765, 25.2937



51.0665, 64.6765, 161.5019



91.1681, 64.6765, 64.3579

# Complementary

The Complementary color scheme is a pair of colors which are on the opposite of each other on the color wheel.



47.8002, 64.6765, 25.2937



34.6285, 24.8677, 74.9299

# Split Complementary

Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



88.1103, 64.6765, 107.0687



47.8002, 64.6765, 25.2937



63.6801, 64.6765, 173.6378

# Square

The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



47.8002, 64.6765, 25.2937



42.5142, 64.6765, 122.0212



77.5324, 64.6765, 150.8803



85.3665, 64.6765, 35.9085



# Rectangle

The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



47.8002, 64.6765, 25.2937



39.0582, 64.6765, 63.9096



77.5324, 64.6765, 150.8803



91.1492, 64.6765, 77.3618

# Sweetspot

The Sweet Spot groups the original color and five complimentary colors.



47.8018, 64.6793, 25.2951



83.4738, 94.6743, 79.3497



47.1060, 42.9706, 21.1416



17.5482, 20.1169, 16.2017



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



47.8018, 64.6793, 25.2951



58.1395, 82.7944, 24.8341



37.8133, 59.5301, 24.8276



14.2493, 15.7087, 14.5878



20.4698, 33.5851, 5.4037



1.5215, 2.3808, 0.3794



# Inverse Universe

The Inverse Universe completely reimagines the original color for something new.



34.6285, 24.8677, 74.9299



38.9261, 24.6690, 97.3177



48.5573, 32.0482, 75.5818



13.5314, 13.5420, 17.2884



11.0328, 4.7829, 41.3901



0.8666, 0.3841, 2.8737



# Previews

## White Background



This preview shows how the XYZ color 47.8002, 64.6765, 25.2937 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

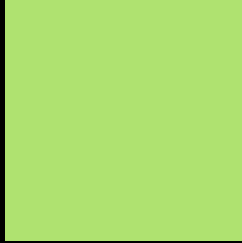
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 47.8002, 64.6765, 25.2937 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 47.8002, 64.6765, 25.2937**

## **Background**



This preview shows how black text looks on a background with the XYZ color 47.8002, 64.6765, 25.2937.



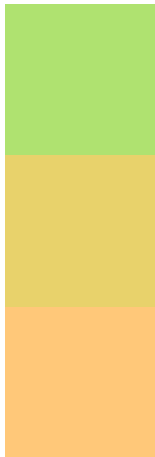
This preview shows how white text looks on a background with the XYZ color 47.8002, 64.6765,



# Color Blindness Simulation

Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



### Original Color

47.8002, 64.6765, 25.2937

### Protanopia

58.9791, 64.3105, 23.2146

### Deuteranopia

65.3455, 63.9490, 26.9885



## Tritanopia

59.5630, 64.3780, 84.1498

# Trichromacy



## Original Color

47.8002, 64.6765, 25.2937

## Protanomaly

54.1802, 64.0647, 23.9781

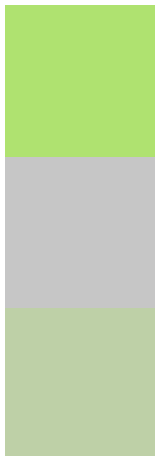
## Deuteranomaly

57.4345, 63.0777, 26.2876

## Tritanomaly

54.0486, 64.0450, 56.5270

# Monochromacy



## Original Color

47.8002, 64.6765, 25.2937

## Achromatopsia

53.6758, 56.4712, 61.4971

## Achromatomaly

50.7661, 58.8489, 45.2425

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 47.8002, 64.6765, 25.2937 is called "color". The color property can be set on classes, ids or directly on the HTML element.

This example shows how text in the color `rgb(175, 226, 112)` looks like.

```
.text, #text, p{  
    color:rgb(175, 226, 112)  
}
```

If you want to add a text shadow in that color use the text-shadow property, you can generate a text shadow directly with our [CSS Text Shadow Generator](#).

Here you see how black text with a 4 pixel rgb(175, 226, 112) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(175, 226, 112) }
```

## Border

The CSS property to change the border of an element to XYZ 47.8002, 64.6765, 25.2937 is called "border". The border property can be set on classes, ids or directly on the HTML element.

This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(175, 226, 112) }
```



If only the border color should be changed use the property `border-color`.

```
.border{ border-color:rgb(175, 226, 112) }
```

If you want to add a box shadow in that color use:

Here you see how a box with a 4 pixel `rgb(175, 226, 112)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(175, 226, 112); -webkit-box-  
shadow:4px 4px 4px 4px rgb(175, 226, 112);  
box-shadow:4px 4px 4px 4px rgb(175, 226,  
112) }
```

# Background

The CSS property to change the background color of an element to XYZ 47.8002, 64.6765, 25.2937 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(175, 226, 112) }
```

If only the background color should be changed can be used:

```
.background{ background-color: rgb(175,  
226, 112) }
```

This example shows the color as background, it is applied via the CSS property "background".

To optimize and compress your CSS code, you can use our [online CSS compressor and optimizer](#) based on csstidy. If you want to create a linear or radial gradient as background or border, check our [CSS Gradient Generator](#).

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