

# Converting Colors

XYZ(12.7554, 25.4611, 4.2422)

Have a look what the booklet for  
XYZ(12.7554, 25.4611, 4.2422)  
contains.

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# Color

**XYZ(12.7824, 25.5091,  
4.2500)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	03A100
RGB	3, 161, 0
RGB Percent	1%, 63%, 0%
CMY	0.9882, 0.3686, 1.0000
CMYK	0.98, 0.00, 1.00, 0.37
HSL	119°, 100%, 32%
HSV	119°, 100%, 63%
XYZ	12.7824, 25.5091, 4.2500
YIQ	95.4040, -42.4870, -83.5670

# Conversions

## Conversions Part 2

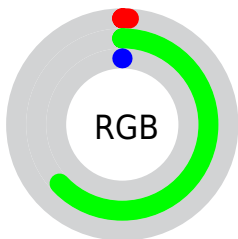
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 161, 158
Decimal	237824
CIELab	57.57, -60.93, 59.00
CIELCh	58, 84.816, 135.925
Yxy	25.5091, 0.3005, 0.5996
Android (android.graphics.Color)	4278427904 (0xFF03A100)
YUV	95.4040, -47.0342, -81.0383
Hunter-Lab	50.5065, -43.2109, 30.3655

# Details

The XYZ color **12.7824, 25.5091, 4.2500** is a dark color, and the websafe version is hex **009900**. A complement of this color would be **20.5373, 9.8444, 34.5373**, and the grayscale version is **11.0920, 11.6697, 12.7083**.

A 20% lighter version of the original color is **30.4968, 52.4207, 14.6418**, and **5.3626, 10.7251, 1.7875** is the 20% darker color. If you saturate the color by 10%, you get **12.7828, 25.5101, 4.2502**, and if you desaturate by 10%, it is **13.1044, 25.6650, 4.7578**.

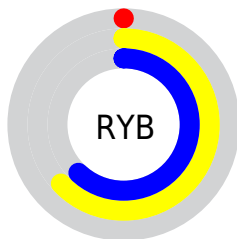
# Distribution



Red (1%)

Green (63%)

Blue (0%)



Red (0%)

Yellow (63%)

Blue (62%)

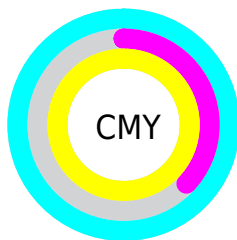


Cyan (98%)

Magenta (0%)

Yellow (100%)

Black (37%)



Cyan (99%)

Magenta (37%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 12.7824, 25.5091, 4.2500 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 12.7824, 25.5091, 4.2500 by changing the saturation by 10% instead.





 12.7824, 25.5091,  
4.2500


 12.7824, 25.5091,  
4.2500


203.1843,  
280.3639, 150.9649


 7.3548, 16.4568,  
1.7635


 30.5170, 52.4819,  
14.5823


 3.7333, 9.8479,  
0.4037


 43.5547, 71.1712,  
23.2652


 1.5524, 5.2983,  
0.0000

 59.8598, 93.8416,  
34.8507

 0.3611, 2.4233,  
0.0000

 79.7977, 120.8775,  
49.7572


 0.0000, 0.8378,  
0.0000


 103.7337,  
152.6633, 68.4033


 0.0000, 0.0000,  
0.0000


 132.0333,


189.5833, 91.2076


 165.0617,  
232.0221, 118.5886


 12.7824, 25.5091,  
4.2500


 12.7824, 25.5091,  
4.2500

 12.7828, 25.5101,  
4.2502

 13.1044, 25.6650,  
4.7578

 13.6887, 25.9466,  
5.6685

 14.6207, 26.3952,  
7.1545

 15.9432, 27.0311,  
9.2896

 17.6927, 27.8717,  
12.1366

■ 19.9015, 28.9327,  
15.7508

■ 22.5988, 30.2279,  
20.1821

■ 25.8115, 31.7703,  
25.4762

■ 29.5644, 33.5716,  
31.6755

# Harmonies

## Analogous

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



19.2898, 25.5091, 1.2636



12.7824, 25.5091, 4.2500



9.8472, 25.5091, 16.3088

# Triad

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



12.7824, 25.5091, 4.2500



19.8153, 25.5091, 124.4523



48.1785, 25.5091, 15.1208

# Complementary

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



12.7824, 25.5091, 4.2500



20.5373, 9.8444, 34.5373

# 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.



48.4358, 25.5091, 43.6485



12.7824, 25.5091, 4.2500



29.9849, 25.5091, 123.1915

# Square

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



12.7824, 25.5091, 4.2500



13.0744, 25.5091, 90.1132



41.0805, 25.5091, 87.3550



40.4526, 25.5091, 3.8965



# Rectangle

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



12.7824, 25.5091, 4.2500



9.5862, 25.5091, 33.9324



41.0805, 25.5091, 87.3550



49.2015, 25.5091, 22.4117

# Sweetspot

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



12.7830, 25.5102, 4.2506



40.1707, 53.9894, 35.6490



26.5262, 31.2326, 4.6308



8.3731, 11.6309, 7.1000



76.7382, 80.7346, 87.9200



13.3056, 13.9985, 15.2444



# Same Dimension

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



12.7830, 25.5102, 4.2506



22.8736, 45.6750, 7.6106



14.0204, 26.0008, 10.9617



6.9971, 7.9010, 7.5363



10.2127, 20.3753, 3.3946



0.2180, 0.4299, 0.0715



# Inverse Universe

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



20.5373, 9.8444, 34.5373



36.7590, 17.6191, 61.8499



16.3733, 8.2475, 9.5065



7.3513, 7.1955, 8.9045



16.4058, 7.8640, 27.5830

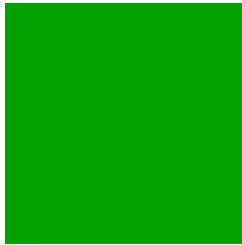


0.3485, 0.1672, 0.5798



# Previews

## White Background



This preview shows how the XYZ color 12.7824, 25.5091, 4.2500 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

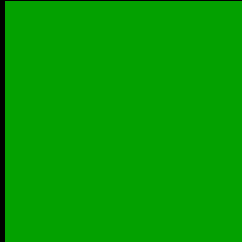
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 12.7824, 25.5091, 4.2500 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

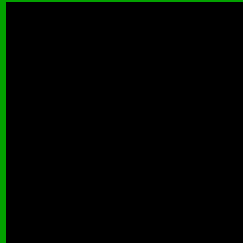
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**XYZ 12.7824, 25.5091, 4.2500**

## **Background**



This preview shows how black text looks on a background with the XYZ color 12.7824, 25.5091, 4.2500.



This preview shows how white text looks on a background with the XYZ color 12.7824, 25.5091,



# 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

12.7824, 25.5091, 4.2500

### Protanopia

22.6060, 25.1455, 3.6621

### Deuteranopia

25.5196, 24.9708, 5.0649



## Tritanopia

19.8118, 25.6503, 38.0892

# Trichromacy



## Original Color

12.7824, 25.5091, 4.2500



## Protanomaly

15.5344, 23.2671, 3.6722



## Deuteranomaly

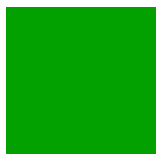
16.2252, 22.4872, 4.2444



## Tritanomaly

15.0425, 24.6259, 16.7924

# Monochromacy



## Original Color

12.7824, 25.5091, 4.2500



## Achromatopsia

10.8771, 11.4435, 12.4620



## Achromatomaly

9.3990, 14.5440, 6.5869

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 12.7824, 25.5091, 4.2500 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(3, 161, 0)` looks like.

```
.text, #text, p{  
    color:rgb(3, 161, 0)  
}
```

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(3, 161, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(3, 161, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 12.7824, 25.5091, 4.2500 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(3, 161, 0) }
```



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

```
.border{ border-color:rgb(3, 161, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(3, 161, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(3, 161, 0); -webkit-box-shadow:4px  
4px 4px 4px rgb(3, 161, 0); box-shadow:4px  
4px 4px 4px rgb(3, 161, 0) }
```

# Background

The CSS property to change the background color of an element to XYZ 12.7824, 25.5091, 4.2500 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(3, 161, 0) }
```

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

```
.background{ background-color: rgb(3, 161,  
0) }
```

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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