

# Converting Colors

XYZ(7.8249, 12.7181, 5.9246)

Have a look what the booklet for  
XYZ(7.8249, 12.7181, 5.9246)  
contains.

<b>XYZ(7.8159, 12.7100, 5.9122)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	28
<b><i>CSS Examples</i></b> .....	31

# Color

**XYZ(7.8159, 12.7100,  
5.9122)**

# Conversions

## Conversions Part 1

Format	Color
Hex	2F7139
RGB	47, 113, 57
RGB Percent	18%, 44%, 22%
CMY	0.8157, 0.5569, 0.7765
CMYK	0.58, 0.00, 0.50, 0.56
HSL	129°, 41%, 31%
HSV	129°, 58%, 44%
XYZ	7.8159, 12.7100, 5.9122
YIQ	86.8820, -21.3600, -31.4080

# Conversions

## Conversions Part 2

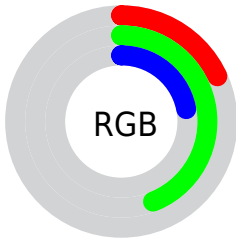
<b>Format</b>	<b>Color</b>
<b>RYB</b>	47, 104, 113
Decimal	3109177
CIELab	42.32, -33.96, 24.82
CIELCh	42, 42.068, 143.838
Yxy	12.7100, 0.2956, 0.4807
Android (android.graphics.Color)	4281299257 (0xFF2F7139)
YUV	86.8820, -14.7318, -34.9765
Hunter-Lab	35.6511, -23.2563, 15.1234

# Details

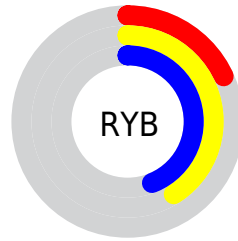
The XYZ color **7.8159, 12.7100, 5.9122** is a dark color, and the websafe version is hex **336633**. A complement of this color would be **10.2751, 6.5232, 13.5497**, and the grayscale version is **9.0679, 9.5401, 10.3892**.

A 20% lighter version of the original color is **21.1505, 30.5828, 18.1529**, and **1.8998, 3.6933, 0.9606** is the 20% darker color. If you saturate the color by 10%, you get **7.1440, 12.3890, 4.7481**, and if you desaturate by 10%, it is **8.6686, 13.1197, 7.3213**.

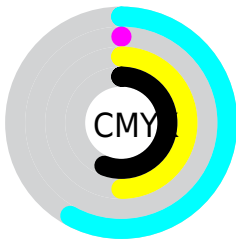
# Distribution



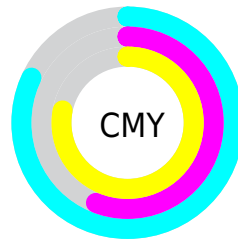
- Red (18%)
- Green (44%)
- Blue (22%)



- Red (18%)
- Yellow (41%)
- Blue (44%)



- Cyan (58%)
- Magenta (0%)
- Yellow (50%)
- Black (56%)



- Cyan (82%)
- Magenta (56%)
- Yellow (78%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 7.8159, 12.7100, 5.9122 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 7.8159, 12.7100, 5.9122 by changing the saturation by 10% instead.



■ 7.8159, 12.7100,  
5.9122

■ 7.8159, 12.7100,  
5.9122

168.6821,  
209.0506, 167.5638

■ 4.0282, 7.2292,  
2.7238

■ 21.2856, 30.7818,  
18.2229

■ 1.7181, 3.6058,  
0.9554

■ 31.6983, 44.1415,  
28.1823

■ 0.4676, 1.4556,  
0.0000

■ 45.0501, 60.8964,  
41.2358

■ 0.0000, 0.2572,  
0.0000

■ 61.7063, 81.4307,  
57.8020

■ 0.0000, 0.0000,  
0.0000

■ 82.0322, 106.1289,  
78.2993

■ 106.3933,

135.3753, 103.1464

135.1548,  
169.5545, 132.7617

■ 7.8159, 12.7100,  
5.9122

■ 7.8159, 12.7100,  
5.9122

■ 7.1440, 12.3890,  
4.7481

■ 8.6686, 13.1197,  
7.3213

■ 6.6387, 12.1487,  
3.8140

■ 9.7131, 13.6223,  
8.9872

■ 6.2853, 11.9821,  
3.0951

■ 10.9605, 14.2238,  
10.9223

■ 6.0425, 11.8682,  
2.5729

■ 12.4207, 14.9291,  
13.1377

■ 6.0075, 11.8516,  
2.5064

■ 14.1033, 15.7428,  
15.6439

■ 16.0169, 16.6691,  
18.4511

■ 18.1700, 17.7123,  
21.5686

■ 20.5703, 18.8761,  
25.0055

■ 23.2256, 20.1644,  
28.7708

# Harmonies

## Analogous

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



9.7914, 12.7100, 3.2560



7.8159, 12.7100, 5.9122



6.9984, 12.7100, 12.0573

# Triad

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



7.8159, 12.7100, 5.9122



11.4412, 12.7100, 39.2853



18.5201, 12.7100, 7.9394

# Complementary

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



7.8159, 12.7100, 5.9122



10.2751, 6.5232, 13.5497

# 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.



19.1688, 12.7100, 15.7882



7.8159, 12.7100, 5.9122



14.7010, 12.7100, 36.5804

# Square

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



7.8159, 12.7100, 5.9122



8.8437, 12.7100, 33.1310



17.6680, 12.7100, 26.8256



16.0239, 12.7100, 4.0194



# Rectangle

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



7.8159, 12.7100, 5.9122



7.0969, 12.7100, 18.4229



17.6680, 12.7100, 26.8256



18.9776, 12.7100, 10.0866

# Sweetspot

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



7.8162, 12.7105, 5.9125



22.2200, 26.7222, 23.4935



12.0237, 14.9056, 4.9326



4.9914, 6.1087, 5.2113



55.7959, 58.7016, 63.9261



6.5000, 6.8385, 7.4471



# Same Dimension

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



7.8162, 12.7105, 5.9125



12.4461, 22.0190, 7.8772



8.9189, 13.1516, 11.7193



3.3638, 3.7707, 3.7220



6.8089, 13.4411, 2.8147



33.7094, 66.8724, 12.9212



# Inverse Universe

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



10.2751, 6.5232, 13.5497



17.2886, 9.7874, 22.8838



8.9355, 5.9873, 6.4957



3.4937, 3.4452, 4.1268



10.1078, 4.9355, 12.9095



50.0978, 24.4844, 62.9722



# Previews

## White Background



This preview shows how the XYZ color 7.8159, 12.7100, 5.9122 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

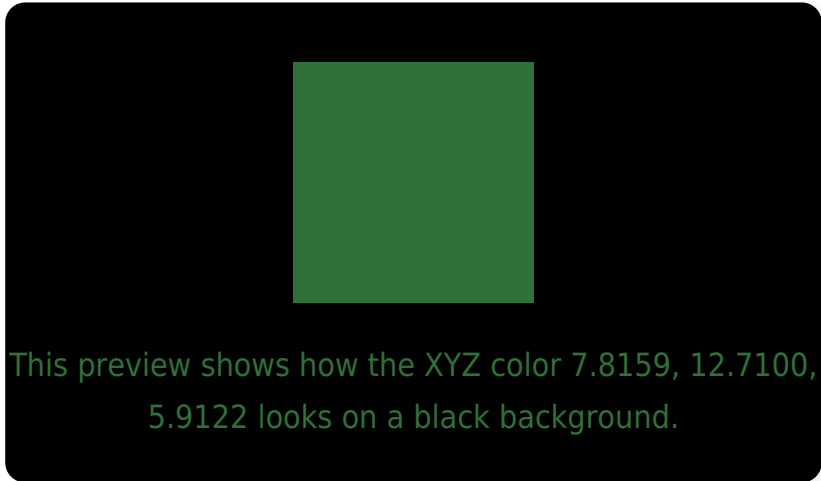
Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail



# Black 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

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

**XYZ 7.8159, 12.7100, 5.9122**

## **Background**



This preview shows how black text looks on a background with the XYZ color 7.8159, 12.7100, 5.9122.



This preview shows how white text looks on a background with the XYZ color 7.8159, 12.7100,



# 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

7.8159, 12.7100, 5.9122

### Protanopia

11.5121, 12.4866, 5.0522

### Deuteranopia

12.7074, 12.5253, 6.3053



## Tritanopia

10.3388, 12.7773, 18.1410

# Trichromacy



## Original Color

7.8159, 12.7100, 5.9122

## Protanomaly

9.5466, 12.1932, 5.3404

## Deuteranomaly

10.0812, 12.1561, 6.0900

## Tritanomaly

9.1764, 12.6153, 12.5410

# Monochromacy



## Original Color

7.8159, 12.7100, 5.9122

## Achromatopsia

9.0590, 9.5307, 10.3790

## Achromatomaly

8.1599, 10.2653, 8.3888

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 7.8159, 12.7100, 5.9122 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(47, 113, 57)` looks like.

```
.text, #text, p{  
    color:rgb(47, 113, 57)  
}
```

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(47, 113, 57) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(47, 113, 57) }
```

## Border

The CSS property to change the border of an element to XYZ 7.8159, 12.7100, 5.9122 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(47, 113, 57) }
```



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

```
.border{ border-color:rgb(47, 113, 57) }
```

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

Here you see how a box with a 4 pixel `rgb(47, 113, 57)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(47, 113, 57); -webkit-box-  
shadow:4px 4px 4px 4px rgb(47, 113, 57);  
box-shadow:4px 4px 4px 4px rgb(47, 113,  
57) }
```

# Background

The CSS property to change the background color of an element to XYZ 7.8159, 12.7100, 5.9122 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(47, 113, 57) }
```

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

```
.background{ background-color: rgb(47, 113,  
57) }
```

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](#).

# Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor