

# Converting Colors

XYZ(12.4559, 16.6157, 25.4723)

Have a look what the booklet for  
XYZ(12.4559, 16.6157, 25.4723)  
contains.

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# Color

**XYZ(12.4559, 16.6157,  
25.4723)**

# Conversions

## Conversions Part 1

Format	Color
Hex	287C87
RGB	40, 124, 135
RGB Percent	16%, 49%, 53%
CMY	0.8431, 0.5137, 0.4706
CMYK	0.70, 0.08, 0.00, 0.47
HSL	187°, 54%, 34%
HSV	187°, 70%, 53%
XYZ	12.4559, 16.6157, 25.4723
YIQ	100.1380, -53.5950, -14.3870

# Conversions

## Conversions Part 2

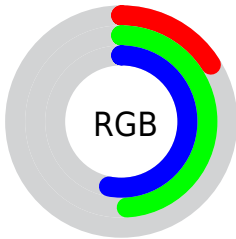
<b>Format</b>	<b>Color</b>
<b>RYB</b>	40, 85, 135
Decimal	2653319
CIELab	47.77, -20.91, -13.28
CIElCh	48, 24.772, 212.425
Yxy	16.6157, 0.2284, 0.3046
Android (android.graphics.Color)	4280843399 (0xFF287C87)
YUV	100.1380, 17.1870, -52.7410
Hunter-Lab	40.7624, -16.7892, -8.5165

# Details

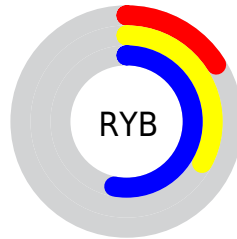
The XYZ color **12.4559, 16.6157, 25.4723** is a dark color, and the websafe version is hex **006666**. A complement of this color would be **11.5589, 7.6723, 2.8797**, and the grayscale version is **12.1163, 12.7472, 13.8818**.

A 20% lighter version of the original color is **29.9448, 37.7278, 53.2809**, and **4.1558, 5.6880, 9.4732** is the 20% darker color. If you saturate the color by 10%, you get **11.8258, 16.0027, 25.3875**, and if you desaturate by 10%, it is **13.2735, 17.3307, 25.5675**.

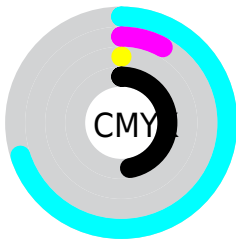
# Distribution



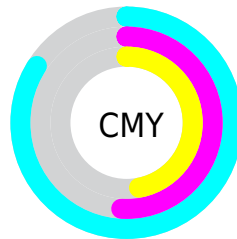
- Red (16%)
- Green (49%)
- Blue (53%)



- Red (16%)
- Yellow (33%)
- Blue (53%)



- Cyan (70%)
- Magenta (8%)
- Yellow (0%)
- Black (47%)



- Cyan (84%)
- Magenta (51%)
- Yellow (47%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 12.4559, 16.6157, 25.4723 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 12.4559, 16.6157, 25.4723 by changing the saturation by 10% instead.



12.4559, 16.6157,  
25.4723

12.4559, 16.6157,  
25.4723

201.1094,  
232.9479, 293.7045

7.1294, 9.9609,  
16.2071

29.9325, 37.6638,  
53.3960

3.5902, 5.3730,  
9.5149

42.8132, 52.8259,  
72.8915

1.4730, 2.4677,  
4.9771

58.9427, 71.5926,  
96.6343

0.3074, 0.8604,  
2.1753

78.6864, 94.3482,  
125.0427

0.0000, 0.0000,  
0.6601

102.4095,  
121.4771, 158.5354

0.0000, 0.0000,  
0.0000

130.4775,

153.3638, 197.5309

163.2557,  
190.3926, 242.4478

■ 12.4559, 16.6157,  
25.4723

■ 12.4559, 16.6157,  
25.4723

■ 11.8258, 16.0027,  
25.3875

■ 13.2735, 17.3307,  
25.5675

■ 11.3616, 15.4795,  
25.3110

■ 14.2943, 18.1547,  
25.6728

■ 11.0142, 15.0312,  
25.2428

■ 15.5340, 19.0962,  
25.7892

■ 17.0064, 20.1623,  
25.9173

■ 18.7242, 21.3596,  
26.0579

■ 20.6990, 22.6941,  
26.2114

■ 22.9417, 24.1715,  
26.3784

■ 25.4628, 25.7971,  
26.5593

■ 28.2719, 27.5760,  
26.7546

# Harmonies

## Analogous

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



11.8994, 16.6157, 18.6140



12.4559, 16.6157, 25.4723



13.8975, 16.6157, 31.2395

# Triad

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



12.4559, 16.6157, 25.4723



19.8878, 16.6157, 24.3630



15.6128, 16.6157, 8.4182

# Complementary

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



12.4559, 16.6157, 25.4723



11.5589, 7.6723, 2.8797

# 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.



17.8528, 16.6157, 9.2731



12.4559, 16.6157, 25.4723



20.4542, 16.6157, 17.5792

# Square

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



12.4559, 16.6157, 25.4723



18.1945, 16.6157, 30.5007



19.6779, 16.6157, 12.2952



13.6122, 16.6157, 9.6085



# Rectangle

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



12.4559, 16.6157, 25.4723



15.2365, 16.6157, 33.1217



19.6779, 16.6157, 12.2952



16.3623, 16.6157, 8.4759

# Sweetspot

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



12.4564, 16.6163, 25.4727



33.1692, 38.0019, 46.6353



10.1045, 18.0054, 5.9048



7.5054, 8.6791, 10.7860



65.7814, 69.2071, 75.3665



9.5508, 10.0482, 10.9424



# Same Dimension

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



12.4564, 16.6163, 25.4727



20.6848, 28.1220, 45.3863



7.9732, 7.6498, 23.9783



4.7568, 5.1893, 5.9517



10.1625, 13.8728, 23.2788



0.0384, 0.0545, 0.0817



# Inverse Universe

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



14.3890, 8.1242, 19.8792



24.5560, 12.5596, 33.8570



14.6498, 13.8541, 3.9100



4.8353, 4.7538, 5.7450



12.3077, 5.9874, 16.7244



0.0443, 0.0214, 0.0665



# Previews

## White Background



This preview shows how the XYZ color 12.4559, 16.6157, 25.4723 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



This preview shows how the XYZ color 12.4559, 16.6157, 25.4723 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

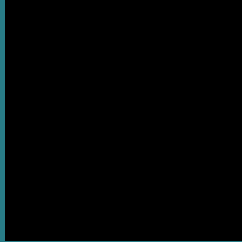
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**XYZ 12.4559, 16.6157, 25.4723**

## **Background**



This preview shows how black text looks on a background with the XYZ color 12.4559, 16.6157, 25.4723.



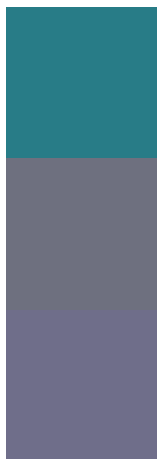
This preview shows how white text looks on a background with the XYZ color 12.4559, 16.6157,



# 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

12.4559, 16.6157, 25.4723

### Protanopia

16.0553, 16.4356, 22.4049

### Deuteranopia

16.7189, 16.3663, 26.3226



## Tritanopia

12.3858, 16.5876, 25.1032

# Trichromacy



## Original Color

12.4559, 16.6157, 25.4723

## Protanomaly

14.0210, 16.0338, 23.4749

## Deuteranomaly

14.3924, 15.9989, 25.9964

## Tritanomaly

12.3858, 16.5876, 25.1032

# Monochromacy



## Original Color

12.4559, 16.6157, 25.4723

## Achromatopsia

12.1130, 12.7438, 13.8780

## Achromatomaly

11.5912, 13.7492, 17.6657

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 12.4559, 16.6157, 25.4723 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(40, 124, 135)` looks like.

```
.text, #text, p{  
    color:rgb(40, 124, 135)  
}
```

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(40, 124, 135) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(40, 124, 135) }
```

## Border

The CSS property to change the border of an element to XYZ 12.4559, 16.6157, 25.4723 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(40, 124, 135) }
```



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

```
.border{ border-color:rgb(40, 124, 135) }
```

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

Here you see how a box with a 4 pixel `rgb(40, 124, 135)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(40, 124, 135); -webkit-box-  
shadow:4px 4px 4px 4px rgb(40, 124, 135);  
box-shadow:4px 4px 4px 4px rgb(40, 124,  
135) }
```

# Background

The CSS property to change the background color of an element to XYZ 12.4559, 16.6157, 25.4723 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(40, 124, 135) }
```

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

```
.background{ background-color: rgb(40, 124,  
135) }
```

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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