

# Converting Colors

XYZ(14.6775, 24.5666, 16.0272)

Have a look what the booklet for  
XYZ(14.6775, 24.5666, 16.0272)  
contains.

<b>XYZ(14.6188, 24.4246, 16.0005)</b> .....	3
<i><b>Conversions</b></i> .....	4
<i><b>Details</b></i> .....	6
<i><b>Harmonies</b></i> .....	12
<i><b>Previews</b></i> .....	24
<i><b>Color Blindness Simulation</b></i> .....	28
<i><b>CSS Examples</b></i> .....	31

# Color

**XYZ(14.6188, 24.4246,  
16.0005)**

# Conversions

## Conversions Part 1

Format	Color
Hex	259A64
RGB	37, 154, 100
RGB Percent	15%, 60%, 39%
CMY	0.8549, 0.3961, 0.6078
CMYK	0.76, 0.00, 0.35, 0.40
HSL	152°, 61%, 37%
HSV	152°, 76%, 60%
XYZ	14.6188, 24.4246, 16.0005
YIQ	112.8610, -52.3980, -41.5980

# Conversions

## Conversions Part 2

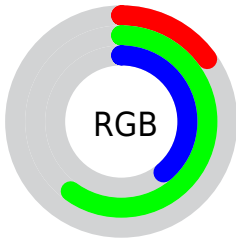
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	37, 113, 154
Decimal	2464356
CIE <sub>Lab</sub>	56.51, -44.65, 19.48
CIE <sub>LCh</sub>	57, 48.715, 156.433
Yxy	24.4246, 0.2656, 0.4437
Android (android.graphics.Color)	4280654436 (0xFF259A64)
YUV	112.8610, -6.3405, -66.5301
Hunter-Lab	49.4213, -33.6869, 15.3993

# Details

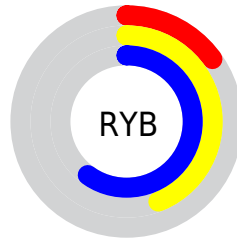
The XYZ color **14.6188, 24.4246, 16.0005** is a dark color, and the websafe version is hex **009966**. A complement of this color would be **15.8771, 8.9491, 10.7891**, and the grayscale version is **15.6848, 16.5016, 17.9703**.

A 20% lighter version of the original color is **33.6419, 50.5446, 37.2611**, and **5.3940, 9.7598, 4.9677** is the 20% darker color. If you saturate the color by 10%, you get **13.8493, 24.0666, 14.2466**, and if you desaturate by 10%, it is **15.6527, 24.9167, 17.9246**.

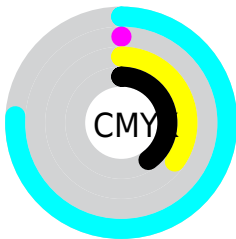
# Distribution



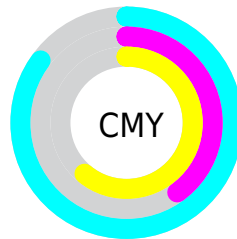
- Red (15%)
- Green (60%)
- Blue (39%)



- Red (15%)
- Yellow (44%)
- Blue (60%)



- Cyan (76%)
- Magenta (0%)
- Yellow (35%)
- Black (40%)




- Cyan (85%)
- Magenta (40%)
- Yellow (61%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 14.6188, 24.4246, 16.0005 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 14.6188, 24.4246, 16.0005 by changing the saturation by 10% instead.





 14.6188, 24.4246,  
16.0005


 14.6188, 24.4246,  
16.0005


214.4816,  
274.9601, 241.1905


 8.6369, 15.6489,  
9.3701


 33.7602, 50.7222,  
37.3659


 4.5603, 9.2760,  
4.8833


 47.6504, 69.0129,  
52.9380


 2.0237, 4.9217,  
2.1214

 64.9074, 91.2440,  
72.3277

 0.6472, 2.2014,  
0.6285

 85.8965, 117.8000,  
95.9537

 0.0000, 0.7207,  
0.0000

 110.9831,  
149.0652, 124.2344

 0.0000, 0.0000,  
0.0000

 140.5326,

185.4240, 157.5884

174.9103,  
227.2609, 196.4343

■ 14.6188, 24.4246,  
16.0005

■ 14.6188, 24.4246,  
16.0005

■ 13.8493, 24.0666,  
14.2466

■ 15.6527, 24.9167,  
17.9246

■ 13.3048, 23.8205,  
12.6554

■ 16.9760, 25.5538,  
20.0223

■ 13.1144, 23.7354,  
12.0581

■ 18.6126, 26.3489,  
22.2989

■ 20.5834, 27.3125,  
24.7590

■ 22.9075, 28.4544,  
27.4070

■ 25.6024, 29.7836,  
30.2471

■ 28.6844, 31.3084,  
33.2832

■ 32.1687, 33.0366,  
36.5194

■ 36.0700, 34.9757,  
39.9594

# Harmonies

## Analogous

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



17.3464, 24.4246, 8.6040



14.6188, 24.4246, 16.0005



14.0125, 24.4246, 30.2320

# Triad

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



14.6188, 24.4246, 16.0005



24.4525, 24.4246, 70.9930



33.0894, 24.4246, 12.0742

# Complementary

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



14.6188, 24.4246, 16.0005



15.8771, 8.9491, 10.7891

# 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.



35.7587, 24.4246, 23.2607



14.6188, 24.4246, 16.0005



30.2768, 24.4246, 60.2673

# Square

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



14.6188, 24.4246, 16.0005



19.1396, 24.4246, 66.4792



34.6539, 24.4246, 41.0609



27.8310, 24.4246, 7.0646



# Rectangle

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



14.6188, 24.4246, 16.0005



14.7881, 24.4246, 42.9730



34.6539, 24.4246, 41.0609



34.3550, 24.4246, 15.0167

# Sweetspot

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



14.6194, 24.4256, 16.0011



42.7765, 52.2614, 51.0475



16.2641, 25.5006, 5.8155



9.3280, 11.6547, 11.1691



74.8435, 78.7412, 85.7492



12.6291, 13.2868, 14.4694



# Same Dimension

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



14.6194, 24.4256, 16.0011



24.4450, 43.3938, 23.8674



17.5188, 24.5720, 34.3925



6.2642, 6.9784, 7.3148



10.7024, 19.3444, 9.9196



0.1784, 0.2965, 0.2450



# Inverse Universe

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



15.8771, 8.9491, 10.7891



26.8622, 13.8909, 14.0296



14.4505, 8.5831, 2.6456



6.3214, 6.2677, 7.0729



11.8038, 5.9758, 5.4918



0.1946, 0.0966, 0.1774



# Previews

## White Background



This preview shows how the XYZ color 14.6188, 24.4246, 16.0005 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 14.6188, 24.4246, 16.0005 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 14.6188, 24.4246, 16.0005**

## **Background**



This preview shows how black text looks on a background with the XYZ color 14.6188, 24.4246, 16.0005.



This preview shows how white text looks on a background with the XYZ color 14.6188, 24.4246,



# 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

14.6188, 24.4246, 16.0005

### Protanopia

22.4498, 24.2116, 13.6153

### Deuteranopia

24.3564, 23.9092, 16.9669



## Tritanopia

18.8061, 24.4606, 36.5311

# Trichromacy



**Original Color**

14.6188, 24.4246, 16.0005

**Protanomaly**

17.6824, 23.2364, 14.3796

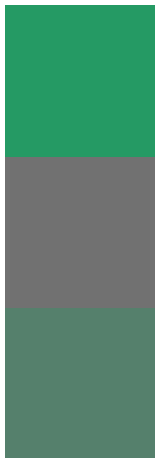
**Deuteranomaly**

18.3972, 22.6871, 16.5061

**Tritanomaly**

17.0151, 24.4319, 27.8638

# Monochromacy



**Original Color**

14.6188, 24.4246, 16.0005

**Achromatopsia**

15.6958, 16.5132, 17.9829

**Achromatomaly**

14.1723, 18.4523, 17.0021

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 14.6188, 24.4246, 16.0005 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(37, 154, 100)` looks like.

```
.text, #text, p{  
  color:rgb(37, 154, 100)  
}
```

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(37, 154, 100) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(37, 154, 100) }
```

## Border

The CSS property to change the border of an element to XYZ 14.6188, 24.4246, 16.0005 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(37, 154, 100) }
```



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

```
.border{ border-color:rgb(37, 154, 100) }
```

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

Here you see how a box with a 4 pixel `rgb(37, 154, 100)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(37, 154, 100); -webkit-box-  
shadow:4px 4px 4px 4px rgb(37, 154, 100);  
box-shadow:4px 4px 4px 4px rgb(37, 154,  
100) }
```

# Background

The CSS property to change the background color of an element to XYZ 14.6188, 24.4246, 16.0005 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(37, 154, 100) }
```

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

```
.background{ background-color: rgb(37, 154,  
100) }
```

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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