

# Converting Colors

XYZ(12.4777, 18.4964, 41.3306)

Have a look what the booklet for  
XYZ(12.4777, 18.4964, 41.3306)  
contains.

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# Color

**XYZ(16.0147, 20.2682,  
41.5962)**

# Conversions

## Conversions Part 1

Format	Color
Hex	0087AB
RGB	0, 135, 171
RGB Percent	0%, 53%, 67%
CMY	0.9999, 0.4706, 0.3294
CMYK	1.00, 0.21, 0.00, 0.33
HSL	193°, 100%, 34%
HSV	193°, 100%, 67%
XYZ	16.0147, 20.2682, 41.5962
YIQ	98.7390, -92.0160, -17.4240

# Conversions

## Conversions Part 2

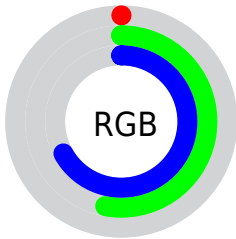
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 75, 171
Decimal	34731
CIELab	52.14, -17.54, -27.64
CIELCh	52, 32.735, 237.598
Yxy	20.2682, 0.2056, 0.2603
Android (android.graphics.Color)	4278224811 (0xFF0087AB)
YUV	98.7390, 35.6247, -86.5941
Hunter-Lab	45.0202, -15.2889, -23.2665

# Details

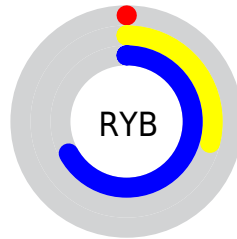
The XYZ color **16.0147, 20.2682, 41.5962** is a dark color, and the websafe version is hex **0099CC**. A complement of this color would be **17.4269, 9.9220, 0.9977**, and the grayscale version is **11.7270, 12.3377, 13.4357**.

A 20% lighter version of the original color is **36.0251, 43.6816, 78.4842**, and **6.5783, 7.8289, 18.6172** is the 20% darker color. If you saturate the color by 10%, you get **16.0139, 20.2665, 41.5963**, and if you desaturate by 10%, it is **16.7595, 21.4110, 41.7779**.

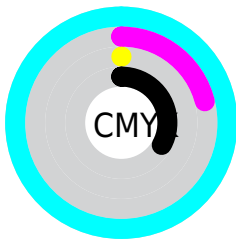
# Distribution



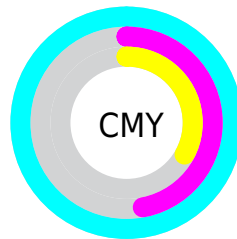
- Red (0%)
- Green (53%)
- Blue (67%)



- Red (0%)
- Yellow (29%)
- Blue (67%)



- Cyan (100%)
- Magenta (21%)
- Yellow (0%)
- Black (33%)



- Cyan (100%)
- Magenta (47%)
- Yellow (33%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 16.0147, 20.2682, 41.5962 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 16.0147, 20.2682, 41.5962 by changing the saturation by 10% instead.



■ 16.0147, 20.2682,  
41.5962

■ 16.0147, 20.2682,  
41.5962

■ 222.6971,  
253.3634, 368.5565

■ 9.6255, 12.5902,  
28.4620

■ 36.1810, 43.8664,  
78.8516

■ 5.2117, 7.1469,  
18.4322

■ 50.6887, 60.5553,  
103.8099

■ 2.4080, 3.5542,  
11.0881

■ 68.6333, 81.0166,  
133.5467

■ 0.8491, 1.4274,  
6.0112

■ 90.3802, 105.6348,  
168.4805

■ 0.0000, 0.2368,  
2.7830

■ 116.2946,  
134.7941, 209.0298

■ 0.0000, 0.0000,  
0.9849

■ 146.7421,

■ 0.0000, 0.0000,

168.8791, 255.6132

0.0000

182.0878,  
208.2740, 308.6493

■ 16.0147, 20.2682,  
41.5962

■ 16.0147, 20.2682,  
41.5962

■ 16.0139, 20.2665,  
41.5963

■ 16.7595, 21.4110,  
41.7779

■ 17.7215, 22.6908,  
41.9743

■ 18.9816, 24.1501,  
42.1895

■ 20.5767, 25.8080,  
42.4255

■ 22.5380, 27.6809,  
42.6836

■ 24.8931, 29.7832,  
42.9652

■ 27.6666, 32.1278,  
43.2716

■ 30.8815, 34.7268,  
43.6038

■ 34.5587, 37.5912,  
43.9629

# Harmonies

## Analogous

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



14.1011, 20.2682, 31.7657



16.0147, 20.2682, 41.5962



18.9957, 20.2682, 46.1079

# Triad

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



16.0147, 20.2682, 41.5962



26.4434, 20.2682, 22.8507



16.4316, 20.2682, 9.4247

# Complementary

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



16.0147, 20.2682, 41.5962



17.4269, 9.9220, 0.9977

# 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.



19.5355, 20.2682, 8.2921



16.0147, 20.2682, 41.5962



25.5553, 20.2682, 14.5780

# Square

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



16.0147, 20.2682, 41.5962



25.2308, 20.2682, 33.5034



22.9262, 20.2682, 9.8699



14.3214, 20.2682, 13.5859



# Rectangle

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



16.0147, 20.2682, 41.5962



21.2782, 20.2682, 44.7371



22.9262, 20.2682, 9.8699



17.3817, 20.2682, 8.7411

# Sweetspot

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



16.0154, 20.2689, 41.5967



49.2548, 57.2954, 77.4650



14.8556, 29.2432, 6.3923



10.5136, 12.3840, 17.2239



82.5889, 86.8899, 94.6231



15.4596, 16.2647, 17.7123



# Same Dimension

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



16.0154, 20.2689, 41.5967



28.5212, 35.9788, 74.4433



8.5493, 5.3367, 39.1080



8.0910, 8.7814, 10.2212



12.1109, 15.3556, 31.3701



0.3724, 0.4981, 0.8845



# Inverse Universe

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



21.1684, 10.4081, 23.8155



37.8295, 18.6064, 42.2250



23.4768, 22.0217, 3.0143



8.2638, 8.1188, 9.6997



15.9766, 7.8532, 18.0543



0.4624, 0.2256, 0.5965



# Previews

## White Background



This preview shows how the XYZ color 16.0147, 20.2682, 41.5962 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 16.0147, 20.2682, 41.5962 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

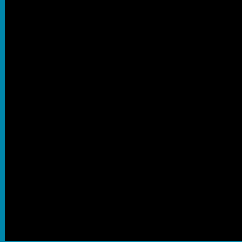
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

# XYZ 16.0147, 20.2682, 41.5962

## Background



This preview shows how black text looks on a background with the XYZ color 16.0147, 20.2682, 41.5962.



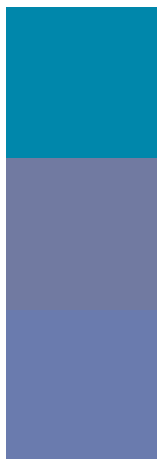
This preview shows how white text looks on a background with the XYZ color 16.0147, 20.2682,



# 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

16.0147, 20.2682, 41.5962

### Protanopia

20.2026, 20.0030, 36.5144

### Deuteranopia

20.6668, 20.2861, 42.8707



## Tritanopia

14.4338, 20.3151, 31.1774

# Trichromacy



## Original Color

16.0147, 20.2682, 41.5962

## Protanomaly

17.0534, 19.2731, 38.4186

## Deuteranomaly

17.4469, 19.3892, 42.3581

## Tritanomaly

14.9464, 20.2916, 34.5814

# Monochromacy



## Original Color

16.0147, 20.2682, 41.5962

## Achromatopsia

11.8596, 12.4772, 13.5877

## Achromatomaly

11.5457, 14.1258, 21.5201

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 16.0147, 20.2682, 41.5962 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(0, 135, 171)` looks like.

```
.text, #text, p{  
    color:rgb(0, 135, 171)  
}
```

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(0, 135, 171) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 135, 171) }
```

## Border

The CSS property to change the border of an element to XYZ 16.0147, 20.2682, 41.5962 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(0, 135, 171) }
```



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

```
.border{ border-color:rgb(0, 135, 171) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 135, 171)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 135, 171); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 135, 171);  
box-shadow:4px 4px 4px 4px rgb(0, 135,  
171) }
```

# Background

The CSS property to change the background color of an element to XYZ 16.0147, 20.2682, 41.5962 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 135, 171) }
```

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

```
.background{ background-color: rgb(0, 135,  
171) }
```

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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