

# Converting Colors

XYZ(7.1547, 17.8694, 13.7828)

Have a look what the booklet for  
XYZ(7.1547, 17.8694, 13.7828)  
contains.

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# Color

**XYZ(11.7386, 20.1722,  
14.1014)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	008E5F
RGB	0, 142, 95
RGB Percent	0%, 56%, 37%
CMY	0.9999, 0.4431, 0.6274
CMYK	1.00, 0.00, 0.33, 0.44
HSL	160°, 100%, 28%
HSV	160°, 100%, 56%
XYZ	11.7386, 20.1722, 14.1014
YIQ	94.1840, -69.5450, -44.7210

# Conversions

## Conversions Part 2

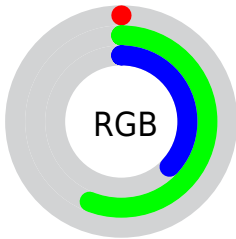
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 85, 142
Decimal	36447
CIELab	52.03, -44.24, 16.11
CIELCh	52, 47.081, 159.995
Yxy	20.1722, 0.2551, 0.4384
Android (android.graphics.Color)	4278226527 (0xFF008E5F)
YUV	94.1840, 0.4023, -82.5994
Hunter-Lab	44.9135, -31.9458, 12.8243

# Details

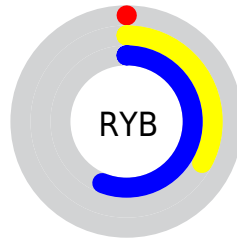
The XYZ color **11.7386, 20.1722, 14.1014** is a dark color, and the websafe version is hex **009966**. A complement of this color would be **11.6693, 5.9567, 3.2257**, and the grayscale version is **10.6950, 11.2520, 12.2534**.

A 20% lighter version of the original color is **28.7218, 43.8468, 34.1436**, and **4.1897, 7.5257, 4.0281** is the 20% darker color. If you saturate the color by 10%, you get **11.7387, 20.1728, 14.1007**, and if you desaturate by 10%, it is **12.1436, 20.3561, 15.2702**.

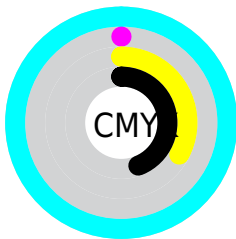
# Distribution



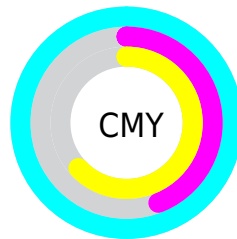
- Red (0%)
- Green (56%)
- Blue (37%)



- Red (0%)
- Yellow (33%)
- Blue (56%)



- Cyan (100%)
- Magenta (0%)
- Yellow (33%)
- Black (44%)




- Cyan (100%)
- Magenta (44%)
- Yellow (63%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 11.7386, 20.1722, 14.1014 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 11.7386, 20.1722, 14.1014 by changing the saturation by 10% instead.





 11.7386, 20.1722,  
14.1014


 11.7386, 20.1722,  
14.1014


196.4725,  
252.8458, 229.3111


 6.6369, 12.5203,  
8.0517


 28.6391, 43.7057,  
33.9886


 3.2804, 7.0991,  
4.0398


 41.1686, 60.3561,  
48.6631


 1.3037, 3.5241,  
1.6472


 56.9048, 80.7747,  
67.0496

 0.1860, 1.4111,  
0.3242

 76.2129, 105.3460,  
89.5666

 0.0000, 0.2249,  
0.0000

 99.4584, 134.4544,  
116.6327

 0.0000, 0.0000,  
0.0000

 127.0066,

168.4842, 148.6665

159.2228,  
207.8199, 186.0864

■ 11.7386, 20.1722,  
14.1014

■ 11.7386, 20.1722,  
14.1014

■ 11.7387, 20.1728,  
14.1007

■ 12.1436, 20.3561,  
15.2702

■ 12.6828, 20.6071,  
16.5133

■ 13.4194, 20.9583,  
17.8352

■ 14.3763, 21.4215,  
19.2381

■ 15.5731, 22.0069,  
20.7240

■ 17.0273, 22.7233,  
22.2948

■ 18.7546, 23.5788,  
23.9521

■ 20.7694, 24.5810,  
25.6978

■ 23.0852, 25.7366,  
27.5333

# Harmonies

## Analogous

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



13.8290, 20.1722, 7.2938



11.7386, 20.1722, 14.1014



11.4404, 20.1722, 26.8815

# Triad

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



11.7386, 20.1722, 14.1014



20.8209, 20.1722, 59.6646



27.1541, 20.1722, 8.9735

# Complementary

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



11.7386, 20.1722, 14.1014



11.6693, 5.9567, 3.2257

# 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.



29.7819, 20.1722, 17.6862



11.7386, 20.1722, 14.1014



25.7422, 20.1722, 49.0961

# Square

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



11.7386, 20.1722, 14.1014



16.1840, 20.1722, 57.3690



29.2260, 20.1722, 32.3118



22.5092, 20.1722, 5.3066



# Rectangle

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



11.7386, 20.1722, 14.1014



12.2354, 20.1722, 38.0169



29.2260, 20.1722, 32.3118



28.3351, 20.1722, 11.2177

# Sweetspot

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



11.7391, 20.1730, 14.1019



32.8631, 41.4747, 42.0462



10.8616, 19.9592, 3.2805



7.0788, 9.1339, 9.1471



67.5393, 71.0566, 77.3807



10.1266, 10.6539, 11.6021



# Same Dimension

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



11.7391, 20.1730, 14.1019



20.6217, 35.5407, 24.4546



11.4011, 14.9897, 27.8844



5.4854, 6.0864, 6.5218



10.5480, 18.1151, 12.7058



0.1111, 0.1773, 0.1753



# Inverse Universe

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



11.6693, 5.9567, 3.2257



20.5077, 10.4755, 5.3243



11.4758, 6.3911, 0.6292



5.4779, 5.4517, 6.0147



10.4844, 5.3508, 2.9364



0.1096, 0.0549, 0.0775



# Previews

## White Background



This preview shows how the XYZ color 11.7386, 20.1722, 14.1014 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 11.7386, 20.1722, 14.1014 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 11.7386, 20.1722, 14.1014**

## **Background**



This preview shows how black text looks on a background with the XYZ color 11.7386, 20.1722, 14.1014.



This preview shows how white text looks on a background with the XYZ color 11.7386, 20.1722,



# 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

11.7386, 20.1722, 14.1014

### Protanopia

18.4761, 19.8406, 11.8726

### Deuteranopia

20.2248, 19.9534, 14.8420



## Tritanopia

15.3372, 20.3679, 30.7268

# Trichromacy



## Original Color

11.7386, 20.1722, 14.1014



## Protanomaly

13.5744, 18.6347, 12.5543



## Deuteranomaly

14.1084, 18.2847, 14.3410



## Tritanomaly

13.5498, 20.0268, 23.5735

# Monochromacy



## Original Color

11.7386, 20.1722, 14.1014



## Achromatopsia

10.6392, 11.1932, 12.1894



## Achromatomaly

9.5683, 13.1377, 12.6212

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 11.7386, 20.1722, 14.1014 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, 142, 95)` looks like.

```
.text, #text, p{  
    color:rgb(0, 142, 95)  
}
```

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, 142, 95) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 142, 95) }
```

## Border

The CSS property to change the border of an element to XYZ 11.7386, 20.1722, 14.1014 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, 142, 95) }
```



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

```
.border{ border-color:rgb(0, 142, 95) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 142, 95)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 142, 95); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 142, 95);  
box-shadow:4px 4px 4px 4px rgb(0, 142, 95)  
}
```

# Background

The CSS property to change the background color of an element to XYZ 11.7386, 20.1722, 14.1014 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 142, 95) }
```

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

```
.background{ background-color: rgb(0, 142,  
95) }
```

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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