

# Converting Colors

XYZ(29.7850, 36.6259, 16.0776)

Have a look what the booklet for  
XYZ(29.7850, 36.6259, 16.0776)  
contains.

<b>XYZ(29.9097, 36.8040, 16.1171)</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(29.9097, 36.8040,  
16.1171)**

# Conversions

## Conversions Part 1

Format	Color
Hex	9AAB5E
RGB	154, 171, 94
RGB Percent	60%, 67%, 37%
CMY	0.3961, 0.3294, 0.6314
CMYK	0.10, 0.00, 0.45, 0.33
HSL	73°, 31%, 52%
HSV	73°, 45%, 67%
XYZ	29.9097, 36.8040, 16.1171
YIQ	157.1390, 14.5850, -27.5510

# Conversions

## Conversions Part 2

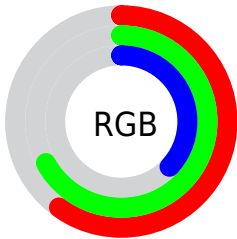
<b>Format</b>	<b>Color</b>
<b>RYB</b>	94, 171, 111
Decimal	10136414
CIELab	67.13, -18.23, 37.53
CIElCh	67, 41.722, 115.904
Yxy	36.8040, 0.3611, 0.4443
Android (android.graphics.Color)	4288326494 (0xFF9AAB5E)
YUV	157.1390, -31.1275, -2.7529
Hunter-Lab	60.6663, -18.1620, 26.7149

# Details

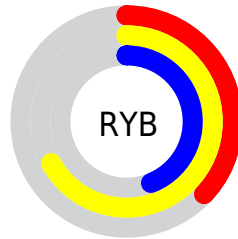
The XYZ color **29.9097, 36.8040, 16.1171** is a dark color, and the websafe version is hex **999966**. A complement of this color would be **17.9103, 14.3261, 40.3515**, and the grayscale version is **32.2424, 33.9215, 36.9405**.

A 20% lighter version of the original color is **58.9630, 70.1697, 37.6305**, and **12.4373, 16.1498, 4.9443** is the 20% darker color. If you saturate the color by 10%, you get **28.5187, 36.1671, 12.4808**, and if you desaturate by 10%, it is **31.4952, 37.5238, 20.6514**.

# Distribution



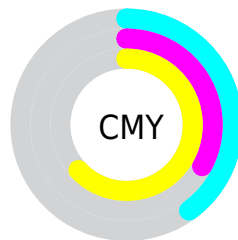
- Red (60%)
- Green (67%)
- Blue (37%)



- Red (37%)
- Yellow (67%)
- Blue (44%)



- Cyan (10%)
- Magenta (0%)
- Yellow (45%)
- Black (33%)



- Cyan (40%)
- Magenta (33%)
- Yellow (63%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 29.9097, 36.8040, 16.1171 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 29.9097, 36.8040, 16.1171 by changing the saturation by 10% instead.



■ 29.9097, 36.8040,  
16.1171

■ 29.9097, 36.8040,  
16.1171

293.4007,  
332.4612, 241.9010

■ 19.9178, 25.0558,  
9.4518

■ 58.9070, 70.2712,  
37.5710

■ 12.4432, 16.1186,  
4.9362

■ 78.6430, 92.7590,  
53.1967

■ 7.1206, 9.6081,  
2.1518

■ 102.3578,  
119.5955, 72.6462

■ 3.5847, 5.1399,  
0.6463

■ 130.4167,  
151.1650, 96.3382

■ 1.4700, 2.3296,  
0.0000

163.1851,  
187.8519, 124.6911

■ 0.3053, 0.7893,  
0.0000

201.0284,

■ 0.0000, 0.0000,

230.0406, 158.1235

0.0000

244.3118,  
278.1156, 197.0539

■ 29.9097, 36.8040,  
16.1171

■ 29.9097, 36.8040,  
16.1171

■ 28.5187, 36.1671,  
12.4808

■ 31.4952, 37.5238,  
20.6514

■ 27.3078, 35.6037,  
9.6804

■ 33.2829, 38.3259,  
26.1356

■ 26.2651, 35.1100,  
7.6494

■ 35.2835, 39.2158,  
32.6206

■ 25.3756, 34.6802,  
6.3105

■ 37.5060, 40.1971,  
40.1529

■ 24.6210, 34.3068,  
5.5683

■ 39.9588, 41.2733,  
48.7761

■ 24.2748, 34.1337,  
5.3090

■ 42.6501, 42.4475,  
58.5313

■ 45.5872, 43.7229,  
69.4576

■ 48.7776, 45.1023,  
81.5920

■ 52.2281, 46.5886,  
94.9701

# Harmonies

## Analogous

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



35.8611, 36.8040, 14.3211



29.9097, 36.8040, 16.1171



25.8064, 36.8040, 23.4826

# Triad

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



29.9097, 36.8040, 16.1171



28.5685, 36.8040, 76.6008



48.6398, 36.8040, 42.6251

# Complementary

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



29.9097, 36.8040, 16.1171



17.9103, 14.3261, 40.3515

# 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.



46.1072, 36.8040, 63.0667



29.9097, 36.8040, 16.1171



34.1156, 36.8040, 86.0961

# Square

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



29.9097, 36.8040, 16.1171



25.1004, 36.8040, 57.3886



40.5956, 36.8040, 80.5155



47.1644, 36.8040, 26.6465



# Rectangle

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



29.9097, 36.8040, 16.1171



24.4175, 36.8040, 32.1403



40.5956, 36.8040, 80.5155



48.2216, 36.8040, 49.2148

# Sweetspot

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



29.9106, 36.8056, 16.1179



63.4842, 70.3610, 59.4048



24.4662, 20.7670, 13.3091



13.9805, 15.6125, 12.6619



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.



29.9106, 36.8056, 16.1179



51.0901, 64.7780, 22.3943



23.7626, 33.6363, 15.8302



8.4870, 9.2397, 8.5495



18.3448, 25.7542, 4.0042



0.5527, 0.7383, 0.1134



# Inverse Universe

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



17.9103, 14.3261, 40.3515



26.8995, 19.4072, 71.3301



23.7825, 17.3534, 40.6263



7.7382, 7.8393, 10.0580



6.1757, 2.5436, 29.2100



0.2176, 0.0944, 0.8147



# Previews

## White Background



This preview shows how the XYZ color 29.9097, 36.8040, 16.1171 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

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 29.9097, 36.8040, 16.1171 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

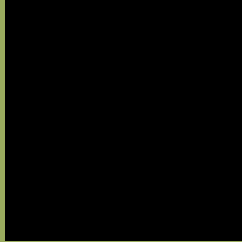
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 29.9097, 36.8040, 16.1171**

## **Background**



This preview shows how black text looks on a background with the XYZ color 29.9097, 36.8040, 16.1171.



This preview shows how white text looks on a background with the XYZ color 29.9097, 36.8040,



# 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

29.9097, 36.8040, 16.1171

### Protanopia

33.5759, 36.5334, 15.1795

### Deuteranopia

37.3818, 36.6645, 16.6620



## Tritanopia

35.9680, 36.8283, 45.7703

# Trichromacy



## Original Color

29.9097, 36.8040, 16.1171

## Protanomaly

32.1455, 36.5912, 15.4938

## Deuteranomaly

34.1939, 36.2979, 16.5132

## Tritanomaly

33.1406, 36.4592, 32.4848

# Monochromacy



## Original Color

29.9097, 36.8040, 16.1171

## Achromatopsia

32.0474, 33.7164, 36.7171

## Achromatomaly

30.9337, 34.6298, 27.6081

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 29.9097, 36.8040, 16.1171 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(154, 171, 94)` looks like.

```
.text, #text, p{  
    color:rgb(154, 171, 94)  
}
```

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(154, 171, 94) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(154, 171, 94) }
```

## Border

The CSS property to change the border of an element to XYZ 29.9097, 36.8040, 16.1171 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(154, 171, 94) }
```



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

```
.border{ border-color:rgb(154, 171, 94) }
```

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

Here you see how a box with a 4 pixel `rgb(154, 171, 94)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(154, 171, 94); -webkit-box-  
shadow:4px 4px 4px 4px rgb(154, 171, 94);  
box-shadow:4px 4px 4px 4px rgb(154, 171,  
94) }
```

# Background

The CSS property to change the background color of an element to XYZ 29.9097, 36.8040, 16.1171 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(154, 171, 94) }
```

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

```
.background{ background-color: rgb(154,  
171, 94) }
```

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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