

# Converting Colors

XYZ(31.7534, 36.5445, 29.4626)

Have a look what the booklet for  
XYZ(31.7534, 36.5445, 29.4626)  
contains.

<b>XYZ(31.7269, 36.6125, 29.4395)</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(31.7269, 36.6125,  
29.4395)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	99A88A
RGB	153, 168, 138
RGB Percent	60%, 66%, 54%
CMY	0.4000, 0.3412, 0.4588
CMYK	0.09, 0.00, 0.18, 0.34
HSL	90°, 15%, 60%
HSV	90°, 18%, 66%
XYZ	31.7269, 36.6125, 29.4395
YIQ	160.0950, 0.6900, -12.5100

# Conversions

## Conversions Part 2

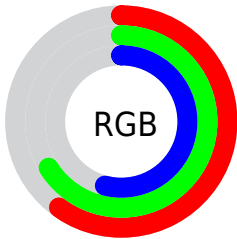
<b>Format</b>	<b>Color</b>
<b>RYB</b>	138, 168, 153
Decimal	10070154
CIELab	66.99, -10.85, 13.75
CIElCh	67, 17.518, 128.278
Yxy	36.6125, 0.3245, 0.3744
Android (android.graphics.Color)	4288260234 (0xFF99A88A)
YUV	160.0950, -10.8928, -6.2223
Hunter-Lab	60.5083, -12.2948, 13.5090

# Details

The XYZ color **31.7269, 36.6125, 29.4395** is a light color, and the websafe version is hex **999966**. A complement of this color would be **29.2947, 27.7774, 40.8653**, and the grayscale version is **33.5066, 35.2516, 38.3890**.

A 20% lighter version of the original color is **61.5238, 69.8023, 59.5208**, and **13.4863, 16.0201, 11.6139** is the 20% darker color. If you saturate the color by 10%, you get **29.0734, 35.3755, 23.4497**, and if you desaturate by 10%, it is **34.6822, 37.9855, 36.4272**.

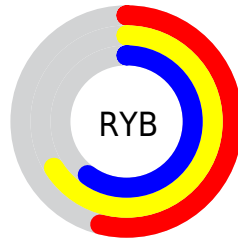
# Distribution



Red (60%)

Green (66%)

Blue (54%)



Red (54%)

Yellow (66%)

Blue (60%)

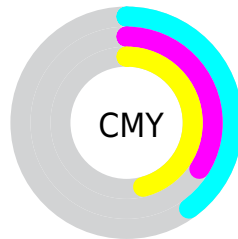


Cyan (9%)

Magenta (0%)

Yellow (18%)

Black (34%)



Cyan (40%)

Magenta (34%)

Yellow (46%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 31.7269, 36.6125, 29.4395 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 31.7269, 36.6125, 29.4395 by changing the saturation by 10% instead.



■ 31.7269, 36.6125,  
29.4395

■ 31.7269, 36.6125,  
29.4395

301.6407,  
331.6298, 313.4086

■ 21.3075, 24.9076,  
19.1651

■ 61.7508, 69.9764,  
59.8251

■ 13.4627, 16.0082,  
11.6116

■ 82.0860, 92.4042,  
80.7735

■ 7.8271, 9.5300,  
6.3605

■ 106.4573,  
119.1751, 106.1168

■ 4.0354, 5.0885,  
2.9932

135.2298,  
150.6735, 136.2738

■ 1.7222, 2.2993,  
1.0912

168.7691,  
187.2838, 171.6630

■ 0.4701, 0.7733,  
0.0000

207.4405,

■ 0.0000, 0.0000,

229.3903, 212.7028

0.0000

251.6092,  
277.3775, 259.8118

■ 31.7269, 36.6125,  
29.4395

■ 31.7269, 36.6125,  
29.4395

■ 29.0734, 35.3755,  
23.4497

■ 34.6822, 37.9855,  
36.4272

■ 26.7079, 34.2652,  
18.4098

■ 37.9467, 39.4942,  
44.4529

■ 24.6198, 33.2781,  
14.2717


■ 41.5310, 41.1442,  
53.5575


■ 22.7963, 32.4090,  
10.9817


■ 45.4446, 42.9395,  
63.7791


■ 21.2239, 31.6521,  
8.4808


■ 49.6963, 44.8839,  
75.1538


 19.8873, 31.0010,  
6.7023


 54.2945, 46.9811,  
87.7161


 18.7689, 30.4484,  
5.5685

 59.1501, 49.1956,  
100.9859

 17.8415, 29.9830,  
4.9503

 61.6327, 50.4754,  
101.1021

 17.6586, 29.8911,  
4.8388

 64.2431, 51.8212,  
101.2242

# Harmonies

## Analogous

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



34.0681, 36.6125, 27.0594



31.7269, 36.6125, 29.4395



30.2621, 36.6125, 34.6874

# Triad

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



31.7269, 36.6125, 29.4395



32.9409, 36.6125, 55.0737



40.1078, 36.6125, 37.7934

# Complementary

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



31.7269, 36.6125, 29.4395



29.2947, 27.7774, 40.8653

# 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.



39.7682, 36.6125, 45.5333



31.7269, 36.6125, 29.4395



35.5404, 36.6125, 56.1815

# Square

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



31.7269, 36.6125, 29.4395



30.9378, 36.6125, 49.6411



38.0635, 36.6125, 52.4997



38.9690, 36.6125, 31.4645



# Rectangle

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



31.7269, 36.6125, 29.4395



29.9347, 36.6125, 39.4265



38.0635, 36.6125, 52.4997



40.1638, 36.6125, 40.3063

# Sweetspot

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



31.7279, 36.6141, 29.4403



64.5144, 69.6589, 69.9361



32.1285, 32.9436, 28.7107



13.9767, 15.1435, 15.0370



80.6108, 84.8088, 92.3568



14.7206, 15.4872, 16.8656



# Same Dimension

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



31.7279, 36.6141, 29.4403



55.8119, 65.6184, 49.3846



29.0724, 35.2451, 29.3160



7.7807, 8.5850, 8.0363



13.3936, 22.6019, 3.6567



0.3849, 0.5804, 0.0917



# Inverse Universe

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



29.2947, 27.7774, 40.8653



50.6537, 46.8852, 73.6051



32.3062, 29.3299, 41.0062



7.4758, 7.4779, 9.4677



8.1584, 3.5892, 28.2383



0.2576, 0.1178, 0.6898



# Previews

## White Background



This preview shows how the XYZ color 31.7269, 36.6125, 29.4395 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 31.7269, 36.6125, 29.4395 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 31.7269, 36.6125, 29.4395**

## **Background**



This preview shows how black text looks on a background with the XYZ color 31.7269, 36.6125, 29.4395.



This preview shows how white text looks on a background with the XYZ color 31.7269, 36.6125,



# 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

31.7269, 36.6125, 29.4395

### Protanopia

34.3068, 36.3606, 28.1318

### Deuteranopia

37.2841, 36.5722, 29.9050



## Tritanopia

35.2317, 36.6999, 46.3012

# Trichromacy



## Original Color

31.7269, 36.6125, 29.4395

## Protanomaly

33.2364, 36.3278, 28.5528

## Deuteranomaly

35.0843, 36.4678, 29.6159

## Tritanomaly

33.8813, 36.6870, 39.4780

# Monochromacy



## Original Color

31.7269, 36.6125, 29.4395

## Achromatopsia

33.4132, 35.1533, 38.2819

## Achromatomaly

32.6693, 35.6295, 34.8611

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 31.7269, 36.6125, 29.4395 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(153, 168, 138)` looks like.

```
.text, #text, p{  
    color:rgb(153, 168, 138)  
}
```

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(153, 168, 138) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(153, 168, 138) }
```

## Border

The CSS property to change the border of an element to XYZ 31.7269, 36.6125, 29.4395 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(153, 168, 138) }
```



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

```
.border{ border-color:rgb(153, 168, 138) }
```

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

Here you see how a box with a 4 pixel `rgb(153, 168, 138)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(153, 168, 138); -webkit-box-  
shadow:4px 4px 4px 4px rgb(153, 168, 138);  
box-shadow:4px 4px 4px 4px rgb(153, 168,  
138) }
```

# Background

The CSS property to change the background color of an element to XYZ 31.7269, 36.6125, 29.4395 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(153, 168, 138) }
```

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

```
.background{ background-color: rgb(153,  
168, 138) }
```

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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