

# Converting Colors

XYZ(32.9982, 40.0629, 18.3111)

Have a look what the booklet for  
XYZ(32.9982, 40.0629, 18.3111)  
contains.

<b>XYZ(32.9714, 40.0652, 18.3075)</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(32.9714, 40.0652,  
18.3075)**

# Conversions

## Conversions Part 1

Format	Color
Hex	A2B165
RGB	162, 177, 101
RGB Percent	64%, 69%, 40%
CMY	0.3647, 0.3059, 0.6039
CMYK	0.08, 0.00, 0.43, 0.31
HSL	72°, 33%, 55%
HSV	72°, 43%, 69%
XYZ	32.9714, 40.0652, 18.3075
YIQ	163.8510, 15.4560, -26.8160

# Conversions

## Conversions Part 2

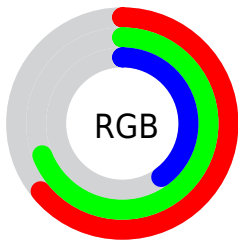
Format	Color
<a href="#">RYB</a>	<a href="#">101, 177, 116</a>
Decimal	<a href="#">10662245</a>
CIELab	<a href="#">69.52, -17.28, 37.05</a>
CIELCh	<a href="#">70, 40.886, 115.006</a>
Yxy	<a href="#">40.0652, 0.3610, 0.4386</a>
Android (android.graphics.Color)	<a href="#">4288852325 (0xFFA2B165)</a>
YUV	<a href="#">163.8510, -30.9855, -1.6233</a>
Hunter-Lab	<a href="#">63.2971, -17.7894, 27.1594</a>

# Details

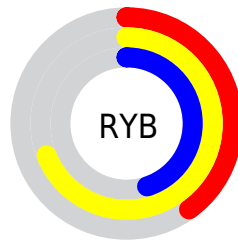
The XYZ color **32.9714, 40.0652, 18.3075** is a light color, and the websafe version is hex **999966**. A complement of this color would be **19.7934, 16.1957, 43.6801**, and the grayscale version is **35.3541, 37.1953, 40.5057**.

A 20% lighter version of the original color is **63.8021, 75.4832, 41.3440**, and **14.1342, 17.9144, 5.9617** is the 20% darker color. If you saturate the color by 10%, you get **31.4963, 39.3957, 14.1889**, and if you desaturate by 10%, it is **34.6550, 40.8232, 23.4124**.

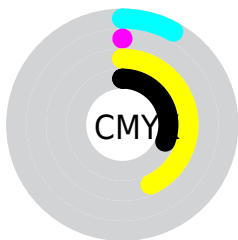
# Distribution



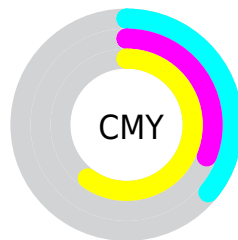
- Red (64%)
- Green (69%)
- Blue (40%)



- Red (40%)
- Yellow (69%)
- Blue (45%)



- Cyan (8%)
- Magenta (0%)
- Yellow (43%)
- Black (31%)




- Cyan (36%)
- Magenta (31%)
- Yellow (60%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 32.9714, 40.0652, 18.3075 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 32.9714, 40.0652, 18.3075 by changing the saturation by 10% instead.





 32.9714, 40.0652,  
18.3075


 32.9714, 40.0652,  
18.3075


307.1881,  
346.3983, 254.8927


 22.2637, 27.5894,  
10.9993


 63.6859, 75.2628,  
41.3816


 14.1685, 18.0164,  
5.9522


 84.4233, 98.7533,  
57.9845

 8.3204, 10.9617,  
2.7477

 109.2347,  
126.6843, 78.5228

 4.3542, 6.0411,  
0.9673

 138.4853,  
159.4400, 103.4149

 1.9044, 2.8701,  
0.0000

172.5407,  
197.4048, 133.0794

 0.5794, 1.0643,  
0.0000

211.7660,

 0.0000, 0.0000,

240.9632, 167.9348

0.0000

256.5267,  
290.4996, 208.3997

■ 32.9714, 40.0652,  
18.3075

■ 32.9714, 40.0652,  
18.3075

■ 31.4963, 39.3957,  
14.1889

■ 34.6550, 40.8232,  
23.4124

■ 30.2144, 38.8043,  
10.9904

■ 36.5554, 41.6688,  
29.5592

■ 29.1131, 38.2874,  
8.6414


■ 38.6839, 42.6079,  
36.8023


■ 28.1768, 37.8388,  
7.0603


■ 41.0500, 43.6445,  
45.1917


■ 27.3866, 37.4507,  
6.1494


■ 43.6628, 44.7821,  
54.7741

 26.8887, 37.2021,  
5.7635

 46.5310, 46.0241,  
65.5939

 49.6625, 47.3739,  
77.6929

 53.0651, 48.8346,  
91.1112

 55.8801, 50.0626,  
101.3256

# Harmonies

## Analogous

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



39.1946, 40.0652, 16.5382



32.9714, 40.0652, 18.3075



28.6145, 40.0652, 25.9456

# Triad

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



32.9714, 40.0652, 18.3075



31.2659, 40.0652, 80.6202



52.1510, 40.0652, 46.8604

# Complementary

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



32.9714, 40.0652, 18.3075



19.7934, 16.1957, 43.6801

# 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.



49.4337, 40.0652, 67.9227



32.9714, 40.0652, 18.3075



36.9882, 40.0652, 90.6855

# Square

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



32.9714, 40.0652, 18.3075



27.7123, 40.0652, 60.8336



43.6925, 40.0652, 85.4722



50.7581, 40.0652, 30.0113



# Rectangle

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



32.9714, 40.0652, 18.3075



27.1049, 40.0652, 34.8923



43.6925, 40.0652, 85.4722



51.6797, 40.0652, 53.7033

# Sweetspot

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



32.9724, 40.0670, 18.3083



69.1638, 76.2553, 65.5119



26.6049, 22.5341, 15.2598



14.8029, 16.4439, 13.5545



84.5950, 89.0005, 96.9216



16.2198, 17.0645, 18.5832



# Same Dimension

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



32.9724, 40.0670, 18.3083



56.4181, 70.5583, 25.4431



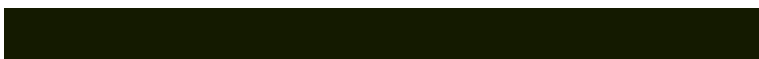
26.5396, 36.7508, 18.0073



9.0294, 9.8203, 9.0721



19.5304, 26.9783, 4.1780



0.6565, 0.8705, 0.1334



# Inverse Universe

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



19.7934, 16.1957, 43.6801



29.5929, 21.9169, 77.1660



25.7151, 19.2484, 43.9572



8.1934, 8.3082, 10.6781



6.2912, 2.5790, 30.3032



0.2439, 0.1048, 0.9556



# Previews

## White Background



This preview shows how the XYZ color 32.9714, 40.0652, 18.3075 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 32.9714, 40.0652, 18.3075 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 32.9714, 40.0652, 18.3075**

## **Background**



This preview shows how black text looks on a background with the XYZ color 32.9714, 40.0652, 18.3075.



This preview shows how white text looks on a background with the XYZ color 32.9714, 40.0652,



# 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

32.9714, 40.0652, 18.3075

### Protanopia

36.8290, 40.0704, 17.3485

### Deuteranopia

40.5959, 39.8193, 18.6430



## Tritanopia

39.3564, 40.1121, 49.3842

# Trichromacy



## Original Color

32.9714, 40.0652, 18.3075

## Protanomaly

35.3272, 40.1351, 17.6893

## Deuteranomaly

37.2532, 39.4355, 18.4803

## Tritanomaly

36.3789, 39.7176, 35.4547

# Monochromacy



## Original Color

32.9714, 40.0652, 18.3075

## Achromatopsia

35.2861, 37.1238, 40.4278

## Achromatomaly

34.0999, 38.0856, 30.7533

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 32.9714, 40.0652, 18.3075 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(162, 177, 101)` looks like.

```
.text, #text, p{  
    color:rgb(162, 177, 101)  
}
```

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(162, 177, 101) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(162, 177, 101) }
```

## Border

The CSS property to change the border of an element to XYZ 32.9714, 40.0652, 18.3075 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(162, 177, 101) }
```



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

```
.border{ border-color:rgb(162, 177, 101) }
```

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

Here you see how a box with a 4 pixel `rgb(162, 177, 101)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(162, 177, 101); -webkit-box-  
shadow:4px 4px 4px 4px rgb(162, 177, 101);  
box-shadow:4px 4px 4px 4px rgb(162, 177,  
101) }
```

# Background

The CSS property to change the background color of an element to XYZ 32.9714, 40.0652, 18.3075 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(162, 177, 101) }
```

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

```
.background{ background-color: rgb(162,  
177, 101) }
```

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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