

# Converting Colors

XYZ(36.7008, 37.9771, 46.9909)

Have a look what the booklet for  
XYZ(36.7008, 37.9771, 46.9909)  
contains.

<b>XYZ(36.7008, 37.9771, 46.9909)</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(36.7008, 37.9771,  
46.9909)**

# Conversions

## Conversions Part 1

Format	Color
Hex	A4A5B1
RGB	164, 165, 177
RGB Percent	64%, 65%, 69%
CMY	0.3569, 0.3529, 0.3059
CMYK	0.07, 0.07, 0.00, 0.31
HSL	235°, 8%, 67%
HSV	235°, 7%, 69%
XYZ	36.7008, 37.9771, 46.9909
YIQ	166.0690, -4.4480, 3.5200

# Conversions

## Conversions Part 2

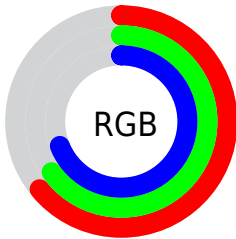
<b>Format</b>	<b>Color</b>
<b>RYB</b>	164, 165, 177
Decimal	10790321
CIELab	68.00, 2.01, -6.31
CIELCh	68, 6.619, 287.684
Yxy	37.9771, 0.3016, 0.3121
Android (android.graphics.Color)	4288980401 (0xFFA4A5B1)
YUV	166.0690, 5.3890, -1.8145
Hunter-Lab	61.6256, -1.5399, -2.0721

# Details

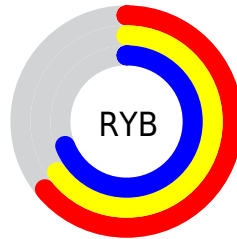
The XYZ color **36.7008, 37.9771, 46.9909** is a light color, and the websafe version is hex **999999**. A complement of this color would be **40.3578, 43.0778, 41.3105**, and the grayscale version is **36.2561, 38.1442, 41.5391**.

A 20% lighter version of the original color is **69.5146, 72.1297, 87.3494**, and **16.2253, 16.7102, 21.4390** is the 20% darker color. If you saturate the color by 10%, you get **30.5387, 30.7032, 45.9123**, and if you desaturate by 10%, it is **43.7499, 46.2690, 48.2205**.

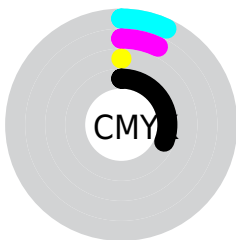
# Distribution



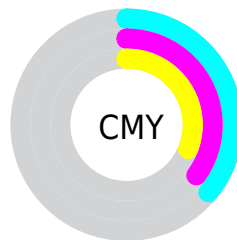
- Red (64%)
- Green (65%)
- Blue (69%)



- Red (64%)
- Yellow (65%)
- Blue (69%)



- Cyan (7%)
- Magenta (7%)
- Yellow (0%)
- Black (31%)



- Cyan (36%)
- Magenta (35%)
- Yellow (31%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 36.7008, 37.9771, 46.9909 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 36.7008, 37.9771, 46.9909 by changing the saturation by 10% instead.



■ 36.7008, 37.9771,  
46.9909

■ 36.7008, 37.9771,  
46.9909

323.3914,  
337.5217, 391.1709

■ 25.1485, 25.9649,  
32.6742

■ 69.4292, 72.0730,  
87.0499

■ 16.3171, 16.7974,  
21.6079

■ 91.3360, 94.9256,  
113.6292

■ 9.8411, 10.0901,  
13.3735

117.4251,  
122.1604, 145.1331

■ 5.3552, 5.4588,  
7.5525

148.0618,  
154.1618, 181.9802

■ 2.4940, 2.5189,  
3.7263

183.6114,  
191.3142, 224.5890

■ 0.8922, 0.8861,  
1.4764

224.4393,

■ 0.0000, 0.0000,

234.0021, 273.3780

0.2003

270.9108,  
282.6098, 328.7658

■ 0.0000, 0.0000,  
0.0000

■ 36.7008, 37.9771,  
46.9909

■ 36.7008, 37.9771,  
46.9909

■ 30.5387, 30.7032,  
45.9123

■ 43.7499, 46.2690,  
48.2205

■ 25.2252, 24.4034,  
44.9763

■ 51.7156, 55.6111,  
49.6038

■ 20.7242, 19.0377,  
44.1779

■ 60.6306, 66.0399,  
51.1469

■ 16.9954, 14.5617,  
43.5105

■ 70.5245, 77.5889,  
52.8546

■ 13.9953, 10.9272,  
42.9670

■ 81.4261, 90.2901,  
54.7316

■ 11.6759, 8.0813,  
42.5400

■ 84.9359, 95.9544,  
55.6400

■ 9.9838, 5.9652,  
42.2207

■ 8.8569, 4.5120,  
41.9996

■ 8.2108, 3.6368,  
41.8647

# Harmonies

## Analogous

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



35.6755, 37.9771, 47.1407



36.7008, 37.9771, 46.9909



37.5798, 37.9771, 45.2861

# Triad

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



36.7008, 37.9771, 46.9909



37.4453, 37.9771, 37.2983



34.1963, 37.9771, 40.1530

# Complementary

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



36.7008, 37.9771, 46.9909



40.3578, 43.0778, 41.3105

# 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.



34.6519, 37.9771, 37.6500



36.7008, 37.9771, 46.9909



36.5200, 37.9771, 36.0551

# Square

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



36.7008, 37.9771, 46.9909



38.0152, 37.9771, 39.6522



35.4981, 37.9771, 36.1807



34.2426, 37.9771, 43.0969



# Rectangle

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



36.7008, 37.9771, 46.9909



37.9586, 37.9771, 43.5410



35.4981, 37.9771, 36.1807



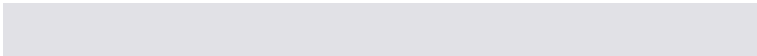
34.2955, 37.9771, 39.2349

# Sweetspot

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



36.7019, 37.9787, 46.9917



72.2327, 75.6714, 85.2943



38.8608, 42.4687, 47.1807



15.6844, 16.4350, 18.4900



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.



36.7019, 37.9787, 46.9917



63.6182, 65.5274, 83.7903



37.6637, 38.2072, 46.9851



8.0929, 8.3319, 10.6880



5.8788, 2.5580, 30.3209



0.2023, 0.1150, 0.9598



# Inverse Universe

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



38.1993, 38.6155, 41.0394



66.9228, 66.9403, 70.6525



39.3455, 42.8488, 41.3196



8.5221, 8.5155, 8.9817



13.2020, 6.7984, 0.9577



0.4241, 0.2174, 0.0761



# Previews

## White Background



This preview shows how the XYZ color 36.7008, 37.9771, 46.9909 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

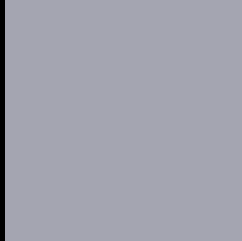
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 36.7008, 37.9771, 46.9909 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

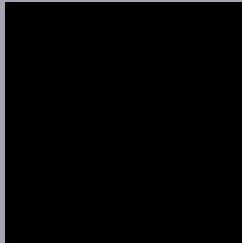
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 36.7008, 37.9771, 46.9909**

## **Background**



This preview shows how black text looks on a background with the XYZ color 36.7008, 37.9771, 46.9909.



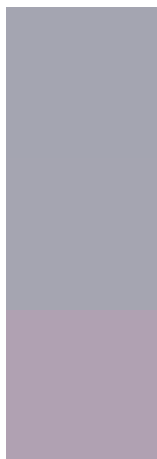
This preview shows how white text looks on a background with the XYZ color 36.7008, 37.9771,



# 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

36.7008, 37.9771, 46.9909

### Protanopia

36.9080, 38.0839, 47.0006

### Deuteranopia

38.6852, 37.9342, 47.4026



## Tritanopia

36.8009, 38.0171, 47.5179

# Trichromacy



## Original Color

36.7008, 37.9771, 46.9909

## Protanomaly

36.9080, 38.0839, 47.0006

## Deuteranomaly

37.9695, 37.8257, 47.4194

## Tritanomaly

36.8009, 38.0171, 47.5179

# Monochromacy



## Original Color

36.7008, 37.9771, 46.9909

## Achromatopsia

36.2450, 38.1326, 41.5264

## Achromatomaly

36.4090, 38.1740, 43.4796

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 36.7008, 37.9771, 46.9909 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(164, 165, 177)` looks like.

```
.text, #text, p{  
    color:rgb(164, 165, 177)  
}
```

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(164, 165, 177) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(164, 165, 177) }
```

## Border

The CSS property to change the border of an element to XYZ 36.7008, 37.9771, 46.9909 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(164, 165, 177) }
```



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

```
.border{ border-color:rgb(164, 165, 177) }
```

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

Here you see how a box with a 4 pixel `rgb(164, 165, 177)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(164, 165, 177); -webkit-box-  
shadow:4px 4px 4px 4px rgb(164, 165, 177);  
box-shadow:4px 4px 4px 4px rgb(164, 165,  
177) }
```

# Background

The CSS property to change the background color of an element to XYZ 36.7008, 37.9771, 46.9909 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(164, 165, 177) }
```

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

```
.background{ background-color: rgb(164,  
165, 177) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor