

# Converting Colors

XYZ(24.4711, 37.4481, 21.2727)

Have a look what the booklet for  
XYZ(24.4711, 37.4481, 21.2727)  
contains.

<b>XYZ(24.4742, 37.4165, 21.2614)</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(24.4742, 37.4165,  
21.2614)**

# Conversions

## Conversions Part 1

Format	Color
Hex	5EB770
RGB	94, 183, 112
RGB Percent	37%, 72%, 44%
CMY	0.6314, 0.2823, 0.5608
CMYK	0.49, 0.00, 0.39, 0.28
HSL	132°, 38%, 54%
HSV	132°, 49%, 72%
XYZ	24.4742, 37.4165, 21.2614
YIQ	148.2950, -30.2530, -40.9490

# Conversions

## Conversions Part 2

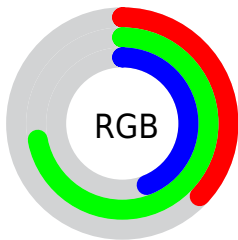
<b>Format</b>	<b>Color</b>
<b>RYB</b>	94, 168, 183
Decimal	6207344
CIELab	67.59, -42.20, 28.09
CIELCh	68, 50.690, 146.352
Yxy	37.4165, 0.2943, 0.4500
Android (android.graphics.Color)	4284397424 (0xFF5EB770)
YUV	148.2950, -17.8934, -47.6167
Hunter-Lab	61.1690, -35.6266, 22.2100

# Details

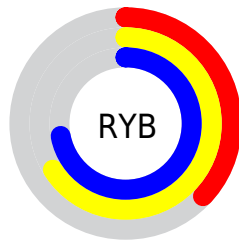
The XYZ color **24.4742, 37.4165, 21.2614** is a dark color, and the websafe version is hex **66CC99**. A complement of this color would be **30.3238, 20.7900, 38.0132**, and the grayscale version is **28.3538, 29.8304, 32.4853**.

A 20% lighter version of the original color is **50.2554, 71.3901, 46.2529**, and **9.4750, 16.4345, 7.3754** is the 20% darker color. If you saturate the color by 10%, you get **22.0675, 36.2633, 17.2444**, and if you desaturate by 10%, it is **27.4595, 38.8549, 25.9951**.

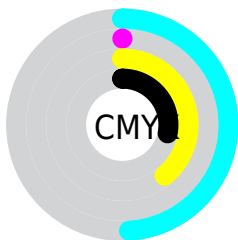
# Distribution



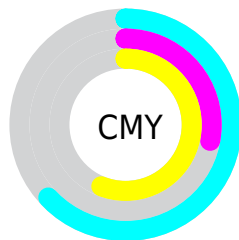
- Red (37%)
- Green (72%)
- Blue (44%)



- Red (37%)
- Yellow (66%)
- Blue (72%)



- Cyan (49%)
- Magenta (0%)
- Yellow (39%)
- Black (28%)



- Cyan (63%)
- Magenta (28%)
- Yellow (56%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 24.4742, 37.4165, 21.2614 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 24.4742, 37.4165, 21.2614 by changing the saturation by 10% instead.



■ 24.4742, 37.4165,  
21.2614

■ 24.4742, 37.4165,  
21.2614

267.6054,  
335.1102, 271.4910

■ 15.8124, 25.5301,  
13.1221

■ 50.2520, 71.2129,  
46.4086

■ 9.4815, 16.4725,  
7.3810

■ 68.0987, 93.8917,  
64.2536

■ 5.1162, 9.8591,  
3.6194

■ 89.7377, 120.9368,  
86.1709

■ 2.3510, 5.3056,  
1.4190

■ 115.5344,  
152.7326, 112.5790

■ 0.8206, 2.4277,  
0.1565

145.8542,  
189.6634, 143.8966

■ 0.0000, 0.8401,  
0.0000

181.0624,

■ 0.0000, 0.0000,

232.1137, 180.5421

0.0000

221.5243,  
280.4678, 222.9340

■ 24.4742, 37.4165,  
21.2614

■ 24.4742, 37.4165,  
21.2614

■ 22.0675, 36.2633,  
17.2444

■ 27.4595, 38.8549,  
25.9951

■ 20.1982, 35.3716,  
13.9068

■ 31.0553, 40.5910,  
31.4755

■ 18.8244, 34.7216,  
11.2115


■ 35.2945, 42.6423,  
37.7340


■ 17.8959, 34.2883,  
9.1168

■ 40.2068, 45.0234,  
44.7993


■ 17.3318, 34.0311,  
7.5752

■ 45.8200, 47.7480,  
52.6988

 17.2683, 34.0021,  
7.4042

 52.1603, 50.8293,  
61.4585

 59.2527, 54.2794,  
71.1033

 67.1208, 58.1101,  
81.6572

 74.4114, 61.6233,  
93.0786

# Harmonies

## Analogous

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



29.3079, 37.4165, 13.0846



24.4742, 37.4165, 21.2614



22.5882, 37.4165, 38.0657

# Triad

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



24.4742, 37.4165, 21.2614



34.6167, 37.4165, 100.4621



50.7807, 37.4165, 24.4826

# Complementary

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



24.4742, 37.4165, 21.2614



30.3238, 20.7900, 38.0132

# 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.



52.7448, 37.4165, 43.5371



24.4742, 37.4165, 21.2614



42.6508, 37.4165, 92.6777

# Square

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



24.4742, 37.4165, 21.2614



27.8777, 37.4165, 88.0266



49.5792, 37.4165, 69.5032



44.5455, 37.4165, 14.4097



# Rectangle

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



24.4742, 37.4165, 21.2614



23.0171, 37.4165, 54.0810



49.5792, 37.4165, 69.5032



51.9983, 37.4165, 29.7964

# Sweetspot

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



24.4752, 37.4181, 21.2622



66.0510, 77.7451, 71.6988



34.5140, 42.6977, 17.0123



14.1955, 16.9811, 15.2670



88.6918, 93.3107, 101.6153



17.8044, 18.7317, 20.3988



# Same Dimension

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



24.4752, 37.4181, 21.2622



39.3977, 64.8853, 30.6709



27.5768, 38.6587, 37.5955



8.9627, 10.0890, 9.9607



12.0665, 23.7276, 5.2723



0.4475, 0.8453, 0.3025



# Inverse Universe

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



30.3238, 20.7900, 38.0132



51.0440, 31.6886, 63.9628



26.9650, 19.4465, 20.3258



9.3010, 9.1308, 10.9324



17.2671, 8.4806, 19.8254



0.6287, 0.3070, 0.8044



# Previews

## White Background



This preview shows how the XYZ color 24.4742, 37.4165, 21.2614 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 24.4742, 37.4165, 21.2614 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 24.4742, 37.4165, 21.2614**

## **Background**



This preview shows how black text looks on a background with the XYZ color 24.4742, 37.4165, 21.2614.



This preview shows how white text looks on a background with the XYZ color 24.4742, 37.4165,



# 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

24.4742, 37.4165, 21.2614

### Protanopia

34.1342, 37.0154, 18.4423

### Deuteranopia

37.5751, 36.8913, 22.2798



## Tritanopia

30.8952, 37.3477, 53.1574

# Trichromacy



## Original Color

24.4742, 37.4165, 21.2614



## Protanomaly

29.2494, 36.3904, 19.3924



## Deuteranomaly

30.8892, 35.8025, 21.8055



## Tritanomaly

27.8930, 36.9856, 38.9265

# Monochromacy



## Original Color

24.4742, 37.4165, 21.2614



## Achromatopsia

28.1479, 29.6138, 32.2495



## Achromatomaly

26.0201, 31.8282, 27.6937

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 24.4742, 37.4165, 21.2614 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(94, 183, 112)` looks like.

```
.text, #text, p{  
    color:rgb(94, 183, 112)  
}
```

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(94, 183, 112) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(94, 183, 112) }
```

## Border

The CSS property to change the border of an element to XYZ 24.4742, 37.4165, 21.2614 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(94, 183, 112) }
```



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

```
.border{ border-color:rgb(94, 183, 112) }
```

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

Here you see how a box with a 4 pixel `rgb(94, 183, 112)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(94, 183, 112); -webkit-box-  
shadow:4px 4px 4px 4px rgb(94, 183, 112);  
box-shadow:4px 4px 4px 4px rgb(94, 183,  
112) }
```

# Background

The CSS property to change the background color of an element to XYZ 24.4742, 37.4165, 21.2614 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(94, 183, 112) }
```

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

```
.background{ background-color: rgb(94, 183,  
112) }
```

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