

Converting Colors

XYZ(12.8284, 10.7780, 33.7971)

Have a look what the booklet for
XYZ(12.8284, 10.7780, 33.7971)
contains.

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Color

**XYZ(12.8134, 10.7150,
33.7406)**

Conversions

Conversions Part 1

Format	Color
Hex	51559E
RGB	81, 85, 158
RGB Percent	32%, 33%, 62%
CMY	0.6823, 0.6667, 0.3804
CMYK	0.49, 0.46, 0.00, 0.38
HSL	237°, 32%, 47%
HSV	237°, 49%, 62%
XYZ	12.8134, 10.7150, 33.7406
YIQ	92.1260, -25.8170, 21.8550

Conversions

Conversions Part 2

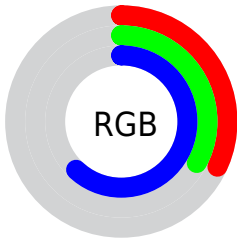
Format	Color
R_{YB}	81, 85, 158
Decimal	5330334
CIE _{Lab}	39.10, 18.89, -40.35
CIE _{LCh}	39, 44.551, 295.092
Yxy	10.7150, 0.2237, 0.1871
Android (android.graphics.Color)	4283520414 (0xFF51559E)
YUV	92.1260, 32.4759, -9.7575
Hunter-Lab	32.7338, 12.5884, -38.2000

Details

The XYZ color **12.8134, 10.7150, 33.7406** is a dark color, and the websafe version is hex **666699**. A complement of this color would be **27.1419, 30.9752, 12.3335**, and the grayscale version is **10.1339, 10.6617, 11.6105**.

A 20% lighter version of the original color is **30.6659, 27.2829, 66.6007**, and **3.7370, 2.7524, 13.9700** is the 20% darker color. If you saturate the color by 10%, you get **10.5566, 7.9825, 33.3323**, and if you desaturate by 10%, it is **15.6358, 14.1100, 34.2474**.

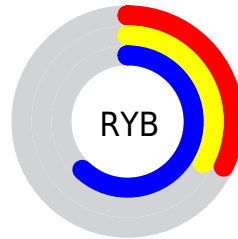
Distribution



Red (32%)

Green (33%)

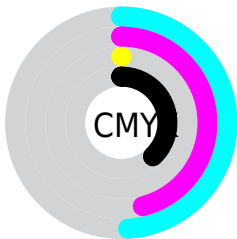
Blue (62%)



Red (32%)

Yellow (33%)

Blue (62%)

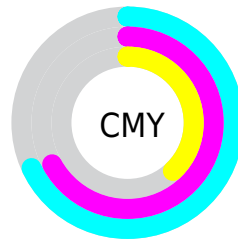


Cyan (49%)

Magenta (46%)

Yellow (0%)

Black (38%)



Cyan (68%)

Magenta (67%)

Yellow (38%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.8134, 10.7150, 33.7406 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 12.8134, 10.7150, 33.7406 by changing the saturation by 10% instead.

■ 12.8134, 10.7150,
33.7406

■ 12.8134, 10.7150,
33.7406

203.3802,
195.7017, 333.7076

■ 7.3763, 5.8755,
22.4186

■ 30.5723, 27.1319,
66.6594

■ 3.7469, 2.7695,
13.9636

■ 43.6248, 39.4782,
89.0932

■ 1.5600, 1.0126,
7.9569

■ 59.9465, 55.0955,
116.0682

■ 0.3661, 0.0000,
3.9800

■ 79.9028, 74.3683,
148.0027

■ 0.0000, 0.0000,
1.6144

■ 103.8589, 97.6809,
185.3154

■ 0.0000, 0.0000,
0.3010

132.1803,

■ 0.0000, 0.0000,

125.4177, 228.4247

0.0000

165.2322,
157.9632, 277.7493

■ 12.8134, 10.7150,
33.7406

■ 12.8134, 10.7150,
33.7406

■ 10.5566, 7.9825,
33.3323

■ 15.6358, 14.1100,
34.2474

■ 8.8260, 5.8681,
33.0154

■ 19.0570, 18.2056,
34.8576

■ 7.5792, 4.3238,
32.7831

■ 23.1092, 23.0386,
35.5769

■ 6.7668, 3.2942,
32.6271

■ 27.8219, 28.6426,
36.4102

■ 6.3063, 2.7009,
32.5369

■ 33.2229, 35.0493,
37.3621

■ 6.2607, 2.6467,
32.5289

■ 39.3381, 42.2887,
38.4372

■ 46.1924, 50.3891,
39.6394

■ 53.8093, 59.3775,
40.9729

■ 62.2112, 69.2797,
42.4414

Harmonies

Analogous

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



9.7017, 10.7150, 36.8540



12.8134, 10.7150, 33.7406



15.6448, 10.7150, 23.8071

Triad

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



12.8134, 10.7150, 33.7406



13.8290, 10.7150, 2.7190



5.4745, 10.7150, 10.3180

Complementary

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



12.8134, 10.7150, 33.7406



27.1419, 30.9752, 12.3335

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.



6.1700, 10.7150, 4.5688



12.8134, 10.7150, 33.7406



10.6826, 10.7150, 1.7639

Square

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



12.8134, 10.7150, 33.7406



16.3068, 10.7150, 5.9984



7.9419, 10.7150, 2.2211



5.8255, 10.7150, 20.1042

Rectangle

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



12.8134, 10.7150, 33.7406



16.7877, 10.7150, 16.4199



7.9419, 10.7150, 2.2211



5.5890, 10.7150, 7.9328

Sweetspot

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



12.8138, 10.7154, 33.7409



44.7714, 45.1768, 65.1037



21.3594, 28.4989, 34.4546



9.7244, 9.7456, 14.6122



76.7382, 80.7346, 87.9200



13.3056, 13.9985, 15.2444

Same Dimension

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



12.8138, 10.7154, 33.7409



19.0267, 14.3211, 60.5049



16.1018, 11.9562, 33.8071



6.3110, 6.4878, 8.3263



5.0233, 2.1381, 26.0552



0.0970, 0.0526, 0.4683

Inverse Universe

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



18.6831, 13.8104, 10.2756



30.9692, 20.7666, 12.7255



22.1165, 29.3806, 12.2906



6.6463, 6.6515, 6.9887



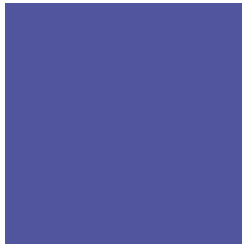
11.3337, 5.8381, 0.7424



0.2063, 0.1058, 0.0324

Previews

White Background



This preview shows how the XYZ color 12.8134, 10.7150, 33.7406 looks on a white background.

Color Contrast Check

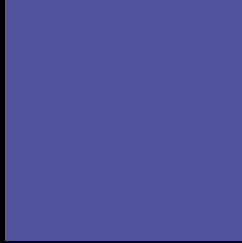
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

Black Background



This preview shows how the XYZ color 12.8134, 10.7150, 33.7406 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

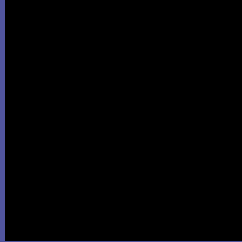
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 12.8134, 10.7150, 33.7406

Background



This preview shows how black text looks on a background with the XYZ color 12.8134, 10.7150, 33.7406.



This preview shows how white text looks on a background with the XYZ color 12.8134, 10.7150,

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

12.8134, 10.7150, 33.7406

Protanopia

11.9227, 10.8205, 35.6426

Deuteranopia

10.9973, 10.7869, 32.9549



Tritanopia

9.0045, 10.6931, 14.9540

Trichromacy



Original Color

12.8134, 10.7150, 33.7406

Protanomaly

12.1695, 10.7109, 35.1442

Deuteranomaly

11.4869, 10.6462, 33.3478

Tritanomaly

10.1510, 10.6235, 20.5843

Monochromacy



Original Color

12.8134, 10.7150, 33.7406

Achromatopsia

10.1725, 10.7023, 11.6548

Achromatomaly

10.7493, 10.4804, 17.9794

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.8134, 10.7150, 33.7406 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(81, 85, 158)` looks like.

```
.text, #text, p{  
    color:rgb(81, 85, 158)  
}
```

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(81, 85, 158) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(81, 85, 158) }
```

Border

The CSS property to change the border of an element to XYZ 12.8134, 10.7150, 33.7406 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(81, 85, 158) }
```


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

```
.border{ border-color:rgb(81, 85, 158) }
```

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

Here you see how a box with a 4 pixel `rgb(81, 85, 158)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(81, 85, 158); -webkit-box-  
shadow:4px 4px 4px 4px rgb(81, 85, 158);  
box-shadow:4px 4px 4px 4px rgb(81, 85,  
158) }
```

Background

The CSS property to change the background color of an element to XYZ 12.8134, 10.7150, 33.7406 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(81, 85, 158) }
```

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

```
.background{ background-color: rgb(81, 85,  
158) }
```

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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