

Converting Colors

XYZ(23.6293, 12.9835, 31.2291)

Have a look what the booklet for
XYZ(23.6293, 12.9835, 31.2291)
contains.

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Color

**XYZ(23.7400, 13.0246,
31.3997)**

Conversions

Conversions Part 1

Format	Color
Hex	AC2E99
RGB	172, 46, 153
RGB Percent	67%, 18%, 60%
CMY	0.3255, 0.8196, 0.4000
CMYK	0.00, 0.73, 0.11, 0.33
HSL	309°, 58%, 43%
HSV	309°, 73%, 67%
XYZ	23.7400, 13.0246, 31.3997
YIQ	95.8720, 40.7490, 59.9890

Conversions

Conversions Part 2

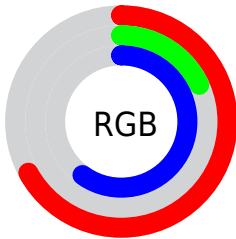
Format	Color
R_{YB}	172, 46, 153
Decimal	11284121
CIE _{Lab}	42.80, 61.43, -30.76
CIE _{LCh}	43, 68.703, 333.407
Yxy	13.0246, 0.3483, 0.1911
Android (android.graphics.Color)	4289474201 (0xFFAC2E99)
YUV	95.8720, 28.1641, 66.7643
Hunter-Lab	36.0896, 54.2617, -26.3224

Details

The XYZ color **23.7400, 13.0246, 31.3997** is a dark color, and the websafe version is hex **993399**. A complement of this color would be **16.8341, 30.4680, 9.9959**, and the grayscale version is **11.0152, 11.5889, 12.6203**.

A 20% lighter version of the original color is **48.9686, 31.2777, 63.1308**, and **9.5514, 4.6526, 12.7065** is the 20% darker color. If you saturate the color by 10%, you get **22.9859, 11.8552, 30.1028**, and if you desaturate by 10%, it is **24.7688, 14.7354, 32.8113**.

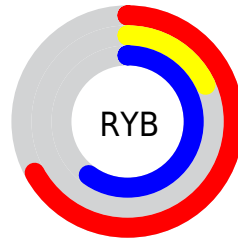
Distribution



Red (67%)

Green (18%)

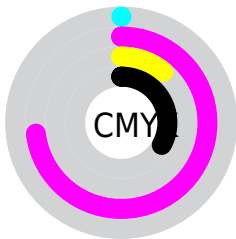
Blue (60%)



Red (67%)

Yellow (18%)

Blue (60%)

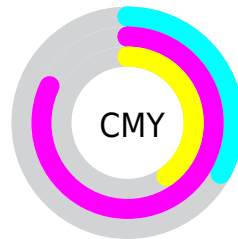


Cyan (0%)

Magenta (73%)

Yellow (11%)

Black (33%)



Cyan (33%)


Magenta (82%)


Yellow (40%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 23.7400, 13.0246, 31.3997 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 23.7400, 13.0246, 31.3997 by changing the saturation by 10% instead.


 23.7400, 13.0246,
31.3997


 23.7400, 13.0246,
31.3997

263.9683,
211.0753, 322.7836

 15.2646, 7.4455,
20.6424


 49.0634, 31.3480,
62.9557


 9.0928, 3.7422,
12.6742


 66.6420, 44.8610,
84.5916


 4.8594, 1.5304,
7.0765


 87.9857, 61.7875,
110.6906

 2.1989, 0.3100,
3.4308

 113.4599, 82.5118,
141.6715

 0.7421, 0.0000,
1.3186

 143.4299,
107.4184, 177.9527

 0.0000, 0.0000,
0.0770

 178.2610,

 0.0000, 0.0000,

136.8915, 219.9527

0.0000

218.3187,
171.3157, 268.0902

■ 23.7400, 13.0246,
31.3997

■ 23.7400, 13.0246,
31.3997

■ 22.9859, 11.8552,
30.1028

■ 24.7688, 14.7354,
32.8113

■ 22.4706, 11.1564,
28.9083

■ 26.0997, 17.0431,
34.3467

■ 22.2065, 10.8480,
28.1429

■ 27.7583, 19.9984,
36.0145

■ 29.7668, 23.6463,
37.8224

■ 32.1459, 28.0275,
39.7773

■ 34.9143, 33.1797,
41.8857

■ 38.0896, 39.1381,
44.1535

■ 41.6883, 45.9355,
46.5865

■ 45.7260, 53.6029,
49.1898

Harmonies

Analogous

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



18.7906, 13.0246, 54.4332



23.7400, 13.0246, 31.3997



25.3935, 13.0246, 12.5364

Triad

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



23.7400, 13.0246, 31.3997



11.7909, 13.0246, 0.3644



5.7338, 13.0246, 36.7151

Complementary

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



23.7400, 13.0246, 31.3997



16.8341, 30.4680, 9.9959

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.



4.8041, 13.0246, 15.9647



23.7400, 13.0246, 31.3997



7.6228, 13.0246, 1.1616

Square

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



23.7400, 13.0246, 31.3997



17.4551, 13.0246, 0.8641



5.3831, 13.0246, 4.7944



8.3976, 13.0246, 58.7420

Rectangle

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



23.7400, 13.0246, 31.3997



24.1071, 13.0246, 5.5348



5.3831, 13.0246, 4.7944



5.2484, 13.0246, 28.9951

Sweetspot

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



23.7405, 13.0252, 31.4000



58.7193, 51.5911, 72.4782



10.5975, 6.0538, 39.6399



12.4991, 10.7271, 15.5436



82.5889, 86.8899, 94.6231



15.4596, 16.2647, 17.7123

Same Dimension

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



23.7405, 13.0252, 31.4000



41.0623, 20.6148, 53.2198



19.8406, 11.4653, 10.8637



8.2844, 8.1270, 9.8084



16.5412, 8.0790, 21.0274



0.4740, 0.2303, 0.6577

Inverse Universe

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



23.7405, 13.0252, 31.4000



41.0623, 20.6148, 53.2198



19.7696, 31.6422, 25.4542



8.2844, 8.1270, 9.8084



16.5412, 8.0790, 21.0274



0.4740, 0.2303, 0.6577

Previews

White Background



This preview shows how the XYZ color 23.7400, 13.0246, 31.3997 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 23.7400, 13.0246, 31.3997 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

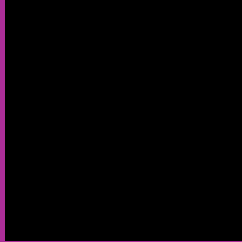
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 23.7400, 13.0246, 31.3997

Background



This preview shows how black text looks on a background with the XYZ color 23.7400, 13.0246, 31.3997.



This preview shows how white text looks on a background with the XYZ color 23.7400, 13.0246,

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

23.7400, 13.0246, 31.3997

Protanopia

15.7255, 13.5394, 55.8174

Deuteranopia

13.6023, 13.3301, 28.6441



Tritanopia

18.9317, 13.0490, 8.3584

Trichromacy



Original Color

23.7400, 13.0246, 31.3997



Protanomaly

15.4320, 11.2386, 45.6119



Deuteranomaly

15.6238, 11.8049, 29.4721



Tritanomaly

20.2125, 12.7700, 14.4962

Monochromacy



Original Color

23.7400, 13.0246, 31.3997



Achromatopsia

11.1181, 11.6971, 12.7381



Achromatomaly

14.2475, 11.0182, 18.2054

CSS Examples

Text

The CSS property to change the color of the text to XYZ 23.7400, 13.0246, 31.3997 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(172, 46, 153)` looks like.

```
.text, #text, p{  
    color:rgb(172, 46, 153)  
}
```

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(172, 46, 153) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(172, 46, 153) }
```

Border

The CSS property to change the border of an element to XYZ 23.7400, 13.0246, 31.3997 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(172, 46, 153) }
```


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

```
.border{ border-color:rgb(172, 46, 153) }
```

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

Here you see how a box with a 4 pixel `rgb(172, 46, 153)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(172, 46, 153); -webkit-box-  
shadow:4px 4px 4px 4px rgb(172, 46, 153);  
box-shadow:4px 4px 4px 4px rgb(172, 46,  
153) }
```

Background

The CSS property to change the background color of an element to XYZ 23.7400, 13.0246, 31.3997 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(172, 46, 153) }
```

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

```
.background{ background-color: rgb(172, 46,  
153) }
```

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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