

Converting Colors

XYZ(23.9860, 13.1831, 20.2204)

Have a look what the booklet for
XYZ(23.9860, 13.1831, 20.2204)
contains.

XYZ(23.9945, 13.1784, 20.3478)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	28
<i>CSS Examples</i>	31

Color

**XYZ(23.9945, 13.1784,
20.3478)**

Conversions

Conversions Part 1

Format	Color
Hex	B72A7C
RGB	183, 42, 124
RGB Percent	72%, 16%, 49%
CMY	0.2824, 0.8353, 0.5137
CMYK	0.00, 0.77, 0.32, 0.28
HSL	325°, 63%, 44%
HSV	325°, 77%, 72%
XYZ	23.9945, 13.1784, 20.3478
YIQ	93.5070, 57.7140, 55.3940

Conversions

Conversions Part 2

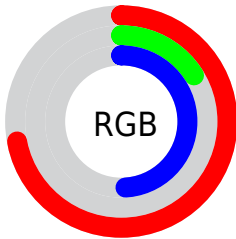
Format	Color
R_{YB}	183, 42, 124
Decimal	12003964
CIE _{Lab}	43.03, 61.56, -12.57
CIE _{LCh}	43, 62.832, 348.462
Yxy	13.1784, 0.4171, 0.2291
Android (android.graphics.Color)	4290194044 (0xFFB72A7C)
YUV	93.5070, 15.0330, 78.4854
Hunter-Lab	36.3021, 54.4542, -7.8214

Details

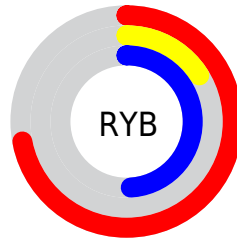
The XYZ color **23.9945, 13.1784, 20.3478** is a dark color, and the websafe version is hex **990066**. A complement of this color would be **20.2381, 35.2993, 18.0610**, and the grayscale version is **10.4804, 11.0262, 12.0075**.

A 20% lighter version of the original color is **49.6493, 31.7318, 45.1030**, and **9.7274, 4.8680, 7.0835** is the 20% darker color. If you saturate the color by 10%, you get **23.0215, 11.9776, 17.7261**, and if you desaturate by 10%, it is **25.3021, 14.9881, 23.2668**.

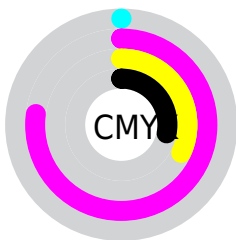
Distribution



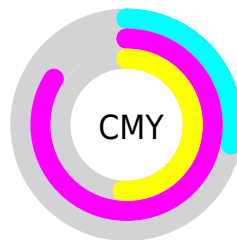
- Red (72%)
- Green (16%)
- Blue (49%)



- Red (72%)
- Yellow (16%)
- Blue (49%)



- Cyan (0%)
- Magenta (77%)
- Yellow (32%)
- Black (28%)



- Cyan (28%)
- Magenta (84%)
- Yellow (51%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 23.9945, 13.1784, 20.3478 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 23.9945, 13.1784, 20.3478 by changing the saturation by 10% instead.

■ 23.9945, 13.1784,
20.3478

■ 23.9945, 13.1784,
20.3478

265.2337,
212.0579, 266.4580

■ 15.4543, 7.5515,
12.4615

■ 49.4760, 31.6239,
44.8661

■ 9.2272, 3.8093,
6.9325

■ 67.1479, 45.2113,
62.3353

■ 4.9480, 1.5675,
3.3421

■ 88.5944, 62.2210,
83.8358

■ 2.2512, 0.3355,
1.2719

■ 114.1809, 83.0374,
109.7863

■ 0.7695, 0.0000,
0.0386

■ 144.2727,
108.0449, 140.6052

■ 0.0000, 0.0000,
0.0000

■ 179.2352,

137.6279, 176.7111

219.4338,
172.1708, 218.5225

■ 23.9945, 13.1784,
20.3478

■ 23.9945, 13.1784,
20.3478

■ 23.0215, 11.9776,
17.7261

■ 25.3021, 14.9881,
23.2668

■ 22.3306, 11.2821,
15.3798

■ 26.9797, 17.4763,
26.4987

■ 22.1520, 11.1167,
14.7290

■ 29.0592, 20.7056,
30.0581

■ 31.5686, 24.7307,
33.9582

■ 34.5333, 29.6010,
38.2111

■ 37.9765, 35.3621,
42.8283

■ 41.9200, 42.0562,
47.8205

■ 46.3841, 49.7227,
53.1977

■ 51.3878, 58.3989,
58.9699

Harmonies

Analogous

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



20.8342, 13.1784, 40.1697



23.9945, 13.1784, 20.3478



23.5499, 13.1784, 7.4714

Triad

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



23.9945, 13.1784, 20.3478



9.8110, 13.1784, 1.0213



7.3251, 13.1784, 44.8486

Complementary

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



23.9945, 13.1784, 20.3478



20.2381, 35.2993, 18.0610

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.



5.6247, 13.1784, 24.5172



23.9945, 13.1784, 20.3478



6.7847, 13.1784, 2.9564

Square

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



23.9945, 13.1784, 20.3478



14.4748, 13.1784, 0.8829



5.4563, 13.1784, 9.6630



10.7598, 13.1784, 59.3121

Rectangle

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



23.9945, 13.1784, 20.3478



21.2869, 13.1784, 3.3542



5.4563, 13.1784, 9.6630



6.5742, 13.1784, 38.0381

Sweetspot

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



23.9949, 13.1791, 20.3480



64.0066, 56.6065, 71.3888



14.7150, 7.8281, 45.5353



13.6676, 11.7213, 15.1252



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.



23.9949, 13.1791, 20.3480



40.3842, 20.5658, 28.9742



21.0170, 11.9879, 4.6665



9.2177, 9.0974, 10.4937



15.4884, 7.7691, 10.4586



0.5761, 0.2859, 0.5274

Inverse Universe

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



23.9949, 13.1791, 20.3480



40.3842, 20.5658, 28.9742



25.2634, 37.3094, 44.5236



9.2177, 9.0974, 10.4937



15.4884, 7.7691, 10.4586



0.5761, 0.2859, 0.5274

Previews

White Background



This preview shows how the XYZ color 23.9945, 13.1784, 20.3478 looks on a white background.

Color Contrast Check

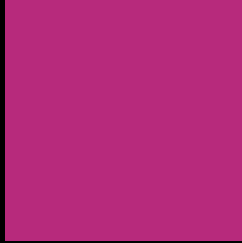
Large Text (above 18pt) WCAG AA ✓ Pass

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 23.9945, 13.1784, 20.3478 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 23.9945, 13.1784, 20.3478

Background



This preview shows how black text looks on a background with the XYZ color 23.9945, 13.1784, 20.3478.



This preview shows how white text looks on a background with the XYZ color 23.9945, 13.1784,

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

23.9945, 13.1784, 20.3478

Protanopia

14.5871, 13.6437, 37.4620

Deuteranopia

13.7119, 13.4629, 18.7055



Tritanopia

21.1846, 13.2914, 6.2994

Trichromacy



Original Color

23.9945, 13.1784, 20.3478

Protanomaly

15.5761, 11.6523, 30.2823

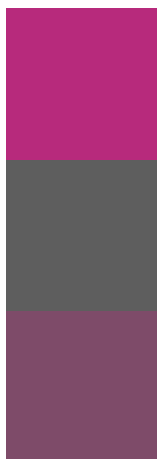
Deuteranomaly

16.0177, 12.0164, 19.2445

Tritanomaly

21.8213, 13.0135, 10.1658

Monochromacy



Original Color

23.9945, 13.1784, 20.3478

Achromatopsia

10.6392, 11.1932, 12.1894

Achromatomaly

13.6701, 10.4877, 14.6684

CSS Examples

Text

The CSS property to change the color of the text to XYZ 23.9945, 13.1784, 20.3478 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(183, 42, 124)` looks like.

```
.text, #text, p{  
    color:rgb(183, 42, 124)  
}
```

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(183, 42, 124) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(183, 42, 124) }
```

Border

The CSS property to change the border of an element to XYZ 23.9945, 13.1784, 20.3478 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(183, 42, 124) }
```


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

```
.border{ border-color:rgb(183, 42, 124) }
```

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

Here you see how a box with a 4 pixel `rgb(183, 42, 124)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(183, 42, 124); -webkit-box-  
shadow:4px 4px 4px 4px rgb(183, 42, 124);  
box-shadow:4px 4px 4px 4px rgb(183, 42,  
124) }
```

Background

The CSS property to change the background color of an element to XYZ 23.9945, 13.1784, 20.3478 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(183, 42, 124) }
```

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

```
.background{ background-color: rgb(183, 42,  
124) }
```

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