

Converting Colors

XYZ(23.7660, 13.2269, 22.1447)

Have a look what the booklet for
XYZ(23.7660, 13.2269, 22.1447)
contains.

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Color

**XYZ(23.7618, 13.2423,
22.0725)**

Conversions

Conversions Part 1

Format	Color
Hex	B42E81
RGB	180, 46, 129
RGB Percent	71%, 18%, 51%
CMY	0.2941, 0.8196, 0.4941
CMYK	0.00, 0.74, 0.28, 0.29
HSL	323°, 59%, 44%
HSV	323°, 74%, 71%
XYZ	23.7618, 13.2423, 22.0725
YIQ	95.5280, 53.2210, 54.2210

Conversions

Conversions Part 2

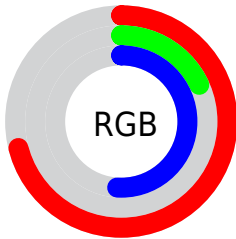
Format	Color
RYB	180, 46, 129
Decimal	11808385
CIELab	43.13, 60.13, -15.55
CIELCh	43, 62.104, 345.503
Yxy	13.2423, 0.4022, 0.2242
Android (android.graphics.Color)	4289998465 (0xFFB42E81)
YUV	95.5280, 16.5017, 74.0819
Hunter-Lab	36.3900, 52.8739, -10.4896

Details

The XYZ color **23.7618, 13.2423, 22.0725** is a dark color, and the websafe version is hex **990066**. A complement of this color would be **19.6065, 34.0868, 16.8575**, and the grayscale version is **10.9576, 11.5282, 12.5543**.

A 20% lighter version of the original color is **48.9904, 31.6288, 47.7788**, and **9.6163, 4.7901, 8.0072** is the 20% darker color. If you saturate the color by 10%, you get **22.7600, 11.9431, 19.5665**, and if you desaturate by 10%, it is **25.0897, 15.1445, 24.8381**.

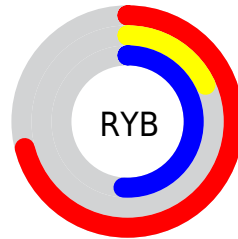
Distribution



Red (71%)

Green (18%)

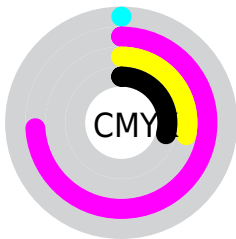
Blue (51%)



Red (71%)

Yellow (18%)

Blue (51%)

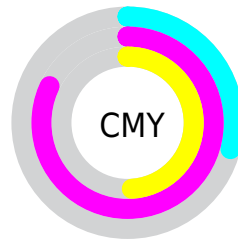


Cyan (0%)

Magenta (74%)

Yellow (28%)

Black (29%)



Cyan (29%)


Magenta (82%)


Yellow (49%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 23.7618, 13.2423, 22.0725 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 23.7618, 13.2423, 22.0725 by changing the saturation by 10% instead.


 23.7618, 13.2423,
22.0725


 23.7618, 13.2423,
22.0725


264.0769,
212.4648, 275.8905


 15.2808, 7.5956,
13.7114


 49.0987, 31.7384,
47.7695


 9.1043, 3.8373,
7.7837


 66.6854, 45.3566,
65.9425


 4.8669, 1.5830,
3.8711

 88.0379, 62.4008,
88.2231

 2.2033, 0.3461,
1.5549

 113.5217, 83.2553,
115.0300

 0.7445, 0.0000,
0.2583

 143.5022,
108.3045, 146.7816

 0.0000, 0.0000,
0.0000

 178.3446,

137.9329, 183.8966

218.4144,
172.5249, 226.7933

■ 23.7618, 13.2423,
22.0725

■ 23.7618, 13.2423,
22.0725

■ 22.7600, 11.9431,
19.5665

■ 25.0897, 15.1445,
24.8381

■ 22.0427, 11.1653,
17.3030

■ 26.7758, 17.7135,
27.8765

■ 21.7186, 10.8618,
16.1321

■ 28.8496, 21.0071,
31.2004

■ 31.3370, 25.0764,
34.8212

■ 34.2617, 29.9678,
38.7494

■ 37.6454, 35.7239,
42.9948

■ 41.5084, 42.3845,
47.5666

■ 45.8696, 49.9869,
52.4737

■ 50.7472, 58.5662,
57.7245

Harmonies

Analogous

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



20.3565, 13.2423, 41.8965



23.7618, 13.2423, 22.0725



23.6980, 13.2423, 8.4597

Triad

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



23.7618, 13.2423, 22.0725



10.2837, 13.2423, 1.0154



7.1762, 13.2423, 42.5661

Complementary

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



23.7618, 13.2423, 22.0725



19.6065, 34.0868, 16.8575

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.



5.6389, 13.2423, 22.6714



23.7618, 13.2423, 22.0725



7.0979, 13.2423, 2.7129

Square

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



23.7618, 13.2423, 22.0725



15.0332, 13.2423, 0.9951



5.6145, 13.2423, 8.7768



10.4207, 13.2423, 57.9380

Rectangle

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



23.7618, 13.2423, 22.0725



21.6614, 13.2423, 3.8907



5.6145, 13.2423, 8.7768



6.4835, 13.2423, 35.7753

Sweetspot

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



23.7622, 13.2430, 22.0727



63.3200, 56.3602, 71.8012



13.9494, 7.6904, 43.9292



13.3542, 11.6213, 15.0911



86.6293, 91.1408, 99.2523



17.0014, 17.8868, 19.4787

Same Dimension

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



23.7622, 13.2430, 22.0727



40.4213, 20.6953, 32.9312



20.7216, 12.0268, 6.0611



8.7102, 8.5908, 9.9722



15.1918, 7.5943, 11.4357



0.5053, 0.2499, 0.5038

Inverse Universe

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



23.7622, 13.2430, 22.0727



40.4213, 20.6953, 32.9312



23.9819, 35.8370, 39.8984



8.7102, 8.5908, 9.9722



15.1918, 7.5943, 11.4357



0.5053, 0.2499, 0.5038

Previews

White Background



This preview shows how the XYZ color 23.7618, 13.2423, 22.0725 looks on a white background.

Color Contrast Check

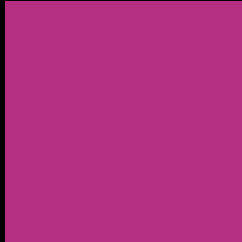
Large Text (above 18pt) WCAG AA ✓ Pass

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 23.7618, 13.2423, 22.0725 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

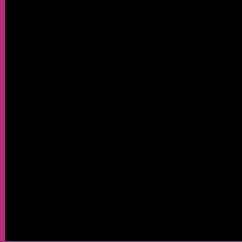
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 23.7618, 13.2423, 22.0725

Background



This preview shows how black text looks on a background with the XYZ color 23.7618, 13.2423, 22.0725.



This preview shows how white text looks on a background with the XYZ color 23.7618, 13.2423,

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

23.7618, 13.2423, 22.0725

Protanopia

14.7168, 13.6678, 39.3986

Deuteranopia

13.7789, 13.4625, 20.2847



Tritanopia

20.5560, 13.1981, 6.9329

Trichromacy



Original Color

23.7618, 13.2423, 22.0725

Protanomaly

15.5852, 11.7287, 32.0143

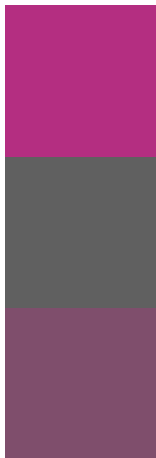
Deuteranomaly

16.0861, 12.1235, 20.8943

Tritanomaly

21.4401, 13.0116, 11.0543

Monochromacy



Original Color

23.7618, 13.2423, 22.0725

Achromatopsia

11.1181, 11.6971, 12.7381

Achromatomaly

14.1836, 11.0435, 15.5714

CSS Examples

Text

The CSS property to change the color of the text to XYZ 23.7618, 13.2423, 22.0725 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(180, 46, 129)` looks like.

```
.text, #text, p{  
    color:rgb(180, 46, 129)  
}
```

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(180, 46, 129) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(180, 46, 129) }
```

Border

The CSS property to change the border of an element to XYZ 23.7618, 13.2423, 22.0725 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(180, 46, 129) }
```


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

```
.border{ border-color:rgb(180, 46, 129) }
```

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

Here you see how a box with a 4 pixel `rgb(180, 46, 129)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(180, 46, 129); -webkit-box-  
shadow:4px 4px 4px 4px rgb(180, 46, 129);  
box-shadow:4px 4px 4px 4px rgb(180, 46,  
129) }
```

Background

The CSS property to change the background color of an element to XYZ 23.7618, 13.2423, 22.0725 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(180, 46, 129) }
```

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

```
.background{ background-color: rgb(180, 46,  
129) }
```

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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