

Converting Colors

XYZ(20.9841, 12.3255, 6.8470)

Have a look what the booklet for
XYZ(20.9841, 12.3255, 6.8470)
contains.

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Color

**XYZ(20.9949, 12.3296,
6.9035)**

Conversions

Conversions Part 1

Format	Color
Hex	B43145
RGB	180, 49, 69
RGB Percent	71%, 19%, 27%
CMY	0.2941, 0.8078, 0.7294
CMYK	0.00, 0.73, 0.62, 0.29
HSL	351°, 57%, 45%
HSV	351°, 73%, 71%
XYZ	20.9949, 12.3296, 6.9035
YIQ	90.4490, 71.6560, 33.9920

Conversions

Conversions Part 2

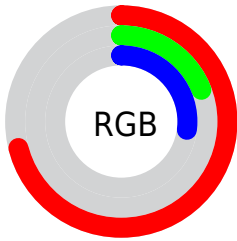
Format	Color
R_{YB}	180, 49, 69
Decimal	11809093
CIE _{Lab}	41.74, 53.39, 19.79
CIE _{LCh}	42, 56.939, 20.342
Yxy	12.3296, 0.5219, 0.3065
Android (android.graphics.Color)	4289999173 (0xFFB43145)
YUV	90.4490, -10.5744, 78.5362
Hunter-Lab	35.1135, 45.2791, 12.9228

Details

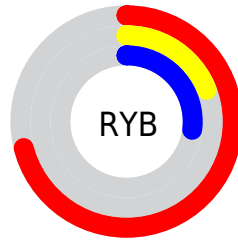
The XYZ color **20.9949, 12.3296, 6.9035** is a dark color, and the websafe version is hex **990033**. A complement of this color would be **23.9342, 35.8339, 38.9167**, and the grayscale version is **9.8317, 10.3438, 11.2644**.

A 20% lighter version of the original color is **44.5381, 30.0883, 20.2898**, and **7.9322, 4.0677, 1.3443** is the 20% darker color. If you saturate the color by 10%, you get **19.9725, 10.9477, 4.5195**, and if you desaturate by 10%, it is **22.4402, 14.3627, 10.0291**.

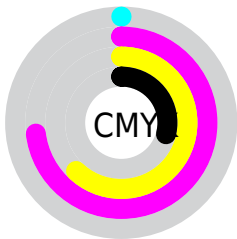
Distribution



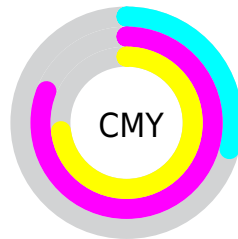
- Red (71%)
- Green (19%)
- Blue (27%)



- Red (71%)
- Yellow (19%)
- Blue (27%)



- Cyan (0%)
- Magenta (73%)
- Yellow (62%)
- Black (29%)





- Cyan (29%)
- Magenta (81%)
- Yellow (73%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 20.9949, 12.3296, 6.9035 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 20.9949, 12.3296, 6.9035 by changing the saturation by 10% instead.


 20.9949, 12.3296,
6.9035


 20.9949, 12.3296,
6.9035


249.9836,
206.5753, 176.4598


 13.2327, 6.9686,
3.3243


 44.5704, 30.0940,
20.2884


 7.6671, 3.4424,
1.2625

 61.1144, 43.2662,
30.9311

 3.9327, 1.3669,
0.0308

 81.3164, 59.8108,
44.7654

 1.6641, 0.1921,
0.0000

 105.5417, 80.1123,
62.2099

 0.4337, 0.0000,
0.0000

 134.1558,
104.5552, 83.6830

 0.0000, 0.0000,
0.0000

 167.5239,

133.5237, 109.6034

206.0114,
167.4022, 140.3895

■ 20.9949, 12.3296,
6.9035

■ 20.9949, 12.3296,
6.9035

■ 19.9725, 10.9477,
4.5195

■ 22.4402, 14.3627,
10.0291

■ 19.3242, 10.1345,
2.8135

■ 24.3479, 17.1122,
13.9513

■ 19.0256, 9.7846,
1.9516

■ 26.7541, 20.6378,
18.7204

■ 29.6908, 24.9922,
24.3824

■ 33.1875, 30.2236,
30.9798

■ 37.2713, 36.3764,
38.5525

■ 41.9678, 43.4921,
47.1382

■ 47.3008, 51.6097,
56.7724

■ 53.2929, 60.7658,
67.4888

Harmonies

Analogous

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



21.5719, 12.3296, 17.6726



20.9949, 12.3296, 6.9035



17.6387, 12.3296, 2.3530

Triad

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



20.9949, 12.3296, 6.9035



6.5530, 12.3296, 3.4365



10.4205, 12.3296, 51.3489

Complementary

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



20.9949, 12.3296, 6.9035



23.9342, 35.8339, 38.9167

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.



7.2984, 12.3296, 40.1167



20.9949, 12.3296, 6.9035



5.4432, 12.3296, 9.9189

Square

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



20.9949, 12.3296, 6.9035



9.1392, 12.3296, 1.3383



5.6790, 12.3296, 23.1308



14.7434, 12.3296, 48.6812

Rectangle

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



20.9949, 12.3296, 6.9035



14.6386, 12.3296, 1.3182



5.6790, 12.3296, 23.1308



9.2158, 12.3296, 48.9034

Sweetspot

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



20.9952, 12.3303, 6.9037



60.4491, 55.2118, 56.6832



23.4705, 12.7788, 44.4094



12.6768, 11.3503, 11.5238



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.



20.9952, 12.3303, 6.9037



35.4658, 18.8921, 6.2841



23.2626, 17.6964, 5.0964



8.5475, 8.5257, 9.1155



13.2951, 6.8356, 1.4478



0.4347, 0.2216, 0.1316

Inverse Universe

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



20.9952, 12.3303, 6.9037



35.4658, 18.8921, 6.2841



18.3568, 21.6516, 46.3915



8.5475, 8.5257, 9.1155



13.2951, 6.8356, 1.4478



0.4347, 0.2216, 0.1316

Previews

White Background



This preview shows how the XYZ color 20.9949, 12.3296, 6.9035 looks on a white background.

Color Contrast Check

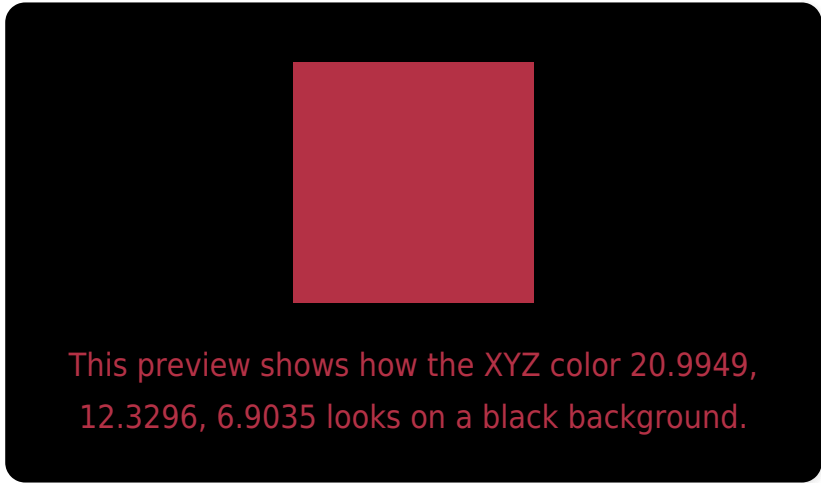
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

Black Background



Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

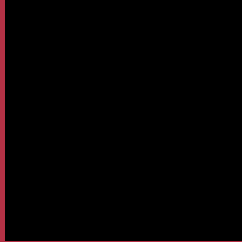
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 20.9949, 12.3296, 6.9035

Background



This preview shows how black text looks on a background with the XYZ color 20.9949, 12.3296, 6.9035.



This preview shows how white text looks on a background with the XYZ color 20.9949, 12.3296,

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

20.9949, 12.3296, 6.9035

Protanopia

11.9437, 12.5626, 11.6928

Deuteranopia

12.7074, 12.5253, 6.3053



Tritanopia

20.4843, 12.3060, 4.7857

Trichromacy



Original Color

20.9949, 12.3296, 6.9035

Protanomaly

13.8638, 11.3347, 9.6407

Deuteranomaly

14.8339, 11.5812, 6.4546

Tritanomaly

20.5636, 12.2671, 5.4216

Monochromacy



Original Color

20.9949, 12.3296, 6.9035

Achromatopsia

9.7181, 10.2242, 11.1341

Achromatomaly

12.2074, 9.8523, 9.2409

CSS Examples

Text

The CSS property to change the color of the text to XYZ 20.9949, 12.3296, 6.9035 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, 49, 69)` looks like.

```
.text, #text, p{  
  color:rgb(180, 49, 69)  
}
```

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, 49, 69) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(180, 49, 69) }
```

Border

The CSS property to change the border of an element to XYZ 20.9949, 12.3296, 6.9035 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, 49, 69) }
```


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

```
.border{ border-color:rgb(180, 49, 69) }
```

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

Here you see how a box with a 4 pixel `rgb(180, 49, 69)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(180, 49, 69); -webkit-box-  
shadow:4px 4px 4px 4px rgb(180, 49, 69);  
box-shadow:4px 4px 4px 4px rgb(180, 49,  
69) }
```

Background

The CSS property to change the background color of an element to XYZ 20.9949, 12.3296, 6.9035 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(180, 49, 69) }
```

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

```
.background{ background-color: rgb(180, 49,  
69) }
```

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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