

Converting Colors

XYZ(20.7155, 12.3450, 7.1648)

Have a look what the booklet for
XYZ(20.7155, 12.3450, 7.1648)
contains.

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Color

**XYZ(20.6936, 12.3632,
7.0900)**

Conversions

Conversions Part 1

Format	Color
Hex	B23446
RGB	178, 52, 70
RGB Percent	70%, 20%, 27%
CMY	0.3020, 0.7960, 0.7255
CMYK	0.00, 0.71, 0.61, 0.30
HSL	351°, 55%, 45%
HSV	351°, 71%, 70%
XYZ	20.6936, 12.3632, 7.0900
YIQ	91.7260, 69.3180, 32.3100

Conversions

Conversions Part 2

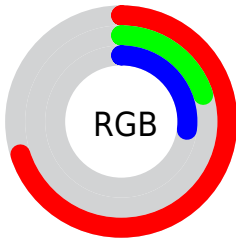
Format	Color
R_{YB}	178, 52, 70
Decimal	11678790
CIE _{Lab}	41.79, 51.71, 19.17
CIE _{LCh}	42, 55.149, 20.343
Yxy	12.3632, 0.5154, 0.3079
Android (android.graphics.Color)	4289868870 (0xFFB23446)
YUV	91.7260, -10.7109, 75.6623
Hunter-Lab	35.1613, 43.5207, 12.6576

Details

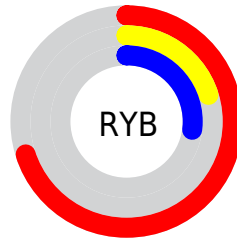
The XYZ color **20.6936, 12.3632, 7.0900** is a dark color, and the websafe version is hex **990033**. A complement of this color would be **23.6828, 35.1093, 38.7900**, and the grayscale version is **10.1232, 10.6503, 11.5982**.

A 20% lighter version of the original color is **44.1243, 30.1741, 20.6381**, and **7.8056, 4.0011, 1.3978** is the 20% darker color. If you saturate the color by 10%, you get **19.6214, 10.8943, 4.6508**, and if you desaturate by 10%, it is **22.1882, 14.4814, 10.2740**.

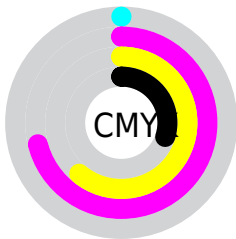
Distribution



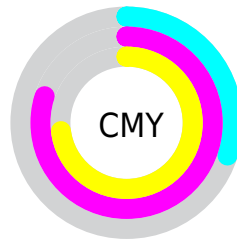
- Red (70%)
- Green (20%)
- Blue (27%)



- Red (70%)
- Yellow (20%)
- Blue (27%)



- Cyan (0%)
- Magenta (71%)
- Yellow (61%)
- Black (30%)





- Cyan (30%)
- Magenta (80%)
- Yellow (73%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 20.6936, 12.3632, 7.0900 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 20.6936, 12.3632, 7.0900 by changing the saturation by 10% instead.


 20.6936, 12.3632,
7.0900


 20.6936, 12.3632,
7.0900

248.4083,
206.7952, 178.0687


 13.0114, 6.9915,
3.4391


 44.0722, 30.1549,
20.6700


 7.5135, 3.4568,
1.3230


 60.4992, 43.3437,
31.4362


 3.8344, 1.3746,
0.0805

 80.5720, 59.9070,
45.4113

 1.6089, 0.1979,
0.0000

 104.6558, 80.2293,
63.0138

 0.3982, 0.0000,
0.0000

 133.1159,
104.6948, 84.6622

 0.0000, 0.0000,
0.0000

 166.3178,

133.6880, 110.7752

204.6268,
167.5934, 141.7711

■ 20.6936, 12.3632,
7.0900

■ 20.6936, 12.3632,
7.0900

■ 19.6214, 10.8943,
4.6508

■ 22.1882, 14.4814,
10.2740

■ 18.9257, 9.9975,
2.8940

■ 24.1430, 17.3105,
14.2569

■ 18.5400, 9.5369,
1.8072

■ 26.5926, 20.9073,
19.0883

■ 29.5679, 25.3223,
24.8137

■ 33.0972, 30.6017,
31.4753

■ 37.2068, 36.7881,
39.1125

■ 41.9216, 43.9215,
47.7625

■ 47.2645, 52.0393,
57.4607

■ 53.2578, 61.1771,
68.2405

Harmonies

Analogous

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



21.2471, 12.3632, 17.5703



20.6936, 12.3632, 7.0900



17.4691, 12.3632, 2.5440

Triad

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



20.6936, 12.3632, 7.0900



6.7079, 12.3632, 3.6416



10.4895, 12.3632, 49.7100

Complementary

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



20.6936, 12.3632, 7.0900



23.6828, 35.1093, 38.7900

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.



7.4403, 12.3632, 39.0459



20.6936, 12.3632, 7.0900



5.6136, 12.3632, 10.0489

Square

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



20.6936, 12.3632, 7.0900



9.2410, 12.3632, 1.4981



5.8466, 12.3632, 22.8234



14.6784, 12.3632, 47.1801

Rectangle

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



20.6936, 12.3632, 7.0900



14.5769, 12.3632, 1.4770



5.8466, 12.3632, 22.8234



9.3159, 12.3632, 47.3914

Sweetspot

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



20.6939, 12.3639, 7.0902



59.6191, 54.8930, 56.3279



23.5823, 13.0524, 43.3957



12.8031, 11.5536, 11.7178



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.



20.6939, 12.3639, 7.0902



34.7868, 18.7135, 6.4774



23.1726, 18.0980, 5.5218



8.5442, 8.5244, 9.0980



13.2802, 6.8296, 1.3697



0.4333, 0.2211, 0.1244

Inverse Universe

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



20.6939, 12.3639, 7.0902



34.7868, 18.7135, 6.4774



17.9642, 20.9680, 45.2197



8.5442, 8.5244, 9.0980



13.2802, 6.8296, 1.3697



0.4333, 0.2211, 0.1244

Previews

White Background



This preview shows how the XYZ color 20.6936, 12.3632, 7.0900 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 20.6936, 12.3632, 7.0900 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

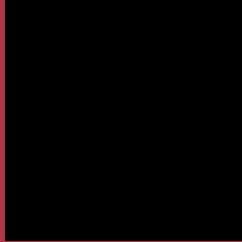
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 20.6936, 12.3632, 7.0900

Background



This preview shows how black text looks on a background with the XYZ color 20.6936, 12.3632, 7.0900.



This preview shows how white text looks on a background with the XYZ color 20.6936, 12.3632,

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

20.6936, 12.3632, 7.0900

Protanopia

11.9437, 12.5626, 11.6928

Deuteranopia

12.7634, 12.5477, 6.5997



Tritanopia

20.1891, 12.2809, 5.1773

Trichromacy



Original Color

20.6936, 12.3632, 7.0900

Protanomaly

13.7845, 11.4049, 9.6585

Deuteranomaly

14.7639, 11.6480, 6.6244

Tritanomaly

20.2741, 12.2411, 5.8516

Monochromacy



Original Color

20.6936, 12.3632, 7.0900

Achromatopsia

10.1725, 10.7023, 11.6548

Achromatomaly

12.4225, 10.1588, 9.6936

CSS Examples

Text

The CSS property to change the color of the text to XYZ 20.6936, 12.3632, 7.0900 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(178, 52, 70)` looks like.

```
.text, #text, p{  
    color:rgb(178, 52, 70)  
}
```

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(178, 52, 70) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(178, 52, 70) }
```

Border

The CSS property to change the border of an element to XYZ 20.6936, 12.3632, 7.0900 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(178, 52, 70) }
```


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

```
.border{ border-color:rgb(178, 52, 70) }
```

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

Here you see how a box with a 4 pixel rgb(178, 52, 70) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(178, 52, 70); -webkit-box-  
shadow:4px 4px 4px 4px rgb(178, 52, 70);  
box-shadow:4px 4px 4px 4px rgb(178, 52,  
70) }
```

Background

The CSS property to change the background color of an element to XYZ 20.6936, 12.3632, 7.0900 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(178, 52, 70) }
```

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

```
.background{ background-color: rgb(178, 52,  
70) }
```

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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