

Converting Colors

XYZ(20.3327, 12.1856, 6.4035)

Have a look what the booklet for
XYZ(20.3327, 12.1856, 6.4035)
contains.

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Color

**XYZ(20.3428, 12.1964,
6.4362)**

Conversions

Conversions Part 1

Format	Color
Hex	B13442
RGB	177, 52, 66
RGB Percent	69%, 20%, 26%
CMY	0.3059, 0.7960, 0.7412
CMYK	0.00, 0.71, 0.63, 0.31
HSL	353°, 55%, 45%
HSV	353°, 71%, 69%
XYZ	20.3428, 12.1964, 6.4362
YIQ	90.9710, 70.0060, 30.8540

Conversions

Conversions Part 2

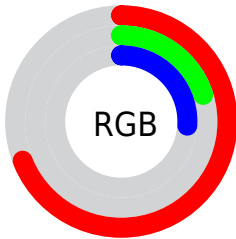
Format	Color
R_{YB}	177, 52, 66
Decimal	11613250
CIE Lab	41.53, 51.13, 21.27
CIE LCh	42, 55.375, 22.594
Yxy	12.1964, 0.5219, 0.3129
Android (android.graphics.Color)	4289803330 (0xFFB13442)
YUV	90.9710, -12.3107, 75.4474
Hunter-Lab	34.9233, 42.8602, 13.5195

Details

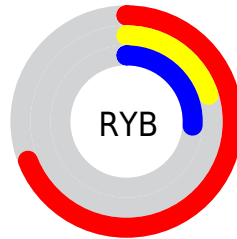
The XYZ color **20.3428, 12.1964, 6.4362** is a dark color, and the websafe version is hex **993333**. A complement of this color would be **23.7501, 34.8190, 40.1226**, and the grayscale version is **9.9539, 10.4723, 11.4043**.

A 20% lighter version of the original color is **43.5549, 29.9074, 19.3967**, and **7.6361, 3.9175, 1.2178** is the 20% darker color. If you saturate the color by 10%, you get **19.2941, 10.7415, 4.1060**, and if you desaturate by 10%, it is **21.8156, 14.2958, 9.5362**.

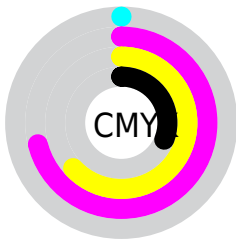
Distribution



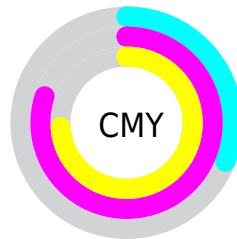
- Red (69%)
- Green (20%)
- Blue (26%)



- Red (69%)
- Yellow (20%)
- Blue (26%)



- Cyan (0%)
- Magenta (71%)
- Yellow (63%)
- Black (31%)





- Cyan (31%)
- Magenta (80%)
- Yellow (74%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 20.3428, 12.1964, 6.4362 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 20.3428, 12.1964, 6.4362 by changing the saturation by 10% instead.


 20.3428, 12.1964,
6.4362


 20.3428, 12.1964,
6.4362


246.5632,
205.7012, 172.3423


 12.7542, 6.8776,
3.0390


 43.4907, 29.8523,
19.3228


 7.3353, 3.3857,
1.1146


 59.7808, 42.9582,
29.6494


 3.7209, 1.3362,
0.0000

 79.7020, 59.4285,
43.1229

 1.5455, 0.1690,
0.0000

 103.6197, 79.6477,
60.1617

 0.3565, 0.0000,
0.0000

 131.8994,
104.0002, 81.1846

 0.0000, 0.0000,
0.0000

 164.9063,

132.8704, 106.6099

203.0058,
166.6426, 136.8563

■ 20.3428, 12.1964,
6.4362

■ 20.3428, 12.1964,
6.4362

■ 19.2941, 10.7415,
4.1060

■ 21.8156, 14.2958,
9.5362

■ 18.6227, 9.8547,
2.4770

■ 23.7508, 17.1009,
13.4655

■ 18.2560, 9.3969,
1.5048

■ 26.1834, 20.6680,
18.2781

■ 29.1446, 25.0470,
24.0236

■ 32.6633, 30.2837,
30.7476

■ 36.7661, 36.4207,
38.4928

■ 41.4780, 43.4973,
47.2995

■ 46.8225, 51.5508,
57.2056

■ 52.8218, 60.6164,
68.2473

Harmonies

Analogous

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



21.1256, 12.1964, 16.3582



20.3428, 12.1964, 6.4362



16.9791, 12.1964, 2.2888

Triad

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



20.3428, 12.1964, 6.4362



6.4527, 12.1964, 3.8326



10.6197, 12.1964, 49.8027

Complementary

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



20.3428, 12.1964, 6.4362



23.7501, 34.8190, 40.1226

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.



7.4855, 12.1964, 39.9425



20.3428, 12.1964, 6.4362



5.4703, 12.1964, 10.6141

Square

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



20.3428, 12.1964, 6.4362



8.8571, 12.1964, 1.5107



5.7987, 12.1964, 23.7895



14.8395, 12.1964, 46.2195

Rectangle

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



20.3428, 12.1964, 6.4362



14.0743, 12.1964, 1.3547



5.7987, 12.1964, 23.7895



9.4208, 12.1964, 47.8190

Sweetspot

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



20.3431, 12.1971, 6.4364



57.9964, 53.4873, 54.1130



24.1493, 13.3561, 42.8999



12.1849, 11.0194, 10.9964



84.5950, 89.0005, 96.9216



16.2198, 17.0645, 18.5832

Same Dimension

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



20.3431, 12.1971, 6.4364



33.7774, 18.1970, 5.5073



23.3010, 18.6943, 5.6300



8.5338, 8.5202, 9.0433



13.2391, 6.8132, 1.1529



0.4290, 0.2193, 0.1017

Inverse Universe

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



20.3431, 12.1971, 6.4364



33.7774, 18.1970, 5.5073



17.2140, 19.6278, 44.4760



8.5338, 8.5202, 9.0433



13.2391, 6.8132, 1.1529



0.4290, 0.2193, 0.1017

Previews

White Background



This preview shows how the XYZ color 20.3428, 12.1964, 6.4362 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 20.3428, 12.1964, 6.4362 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

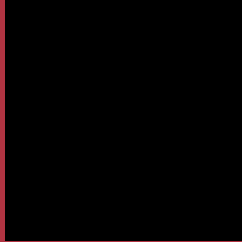
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 20.3428, 12.1964, 6.4362

Background



This preview shows how black text looks on a background with the XYZ color 20.3428, 12.1964, 6.4362.



This preview shows how white text looks on a background with the XYZ color 20.3428, 12.1964,

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

20.3428, 12.1964, 6.4362

Protanopia

11.8505, 12.5386, 10.5997

Deuteranopia

12.5640, 12.3247, 5.9917



Tritanopia

20.1644, 12.2710, 5.0471

Trichromacy



Original Color

20.3428, 12.1964, 6.4362

Protanomaly

13.7886, 11.4244, 8.8755

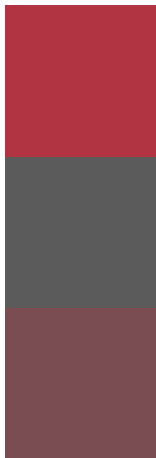
Deuteranomaly

14.6500, 11.6025, 6.0248

Tritanomaly

20.2202, 12.2196, 5.5679

Monochromacy



Original Color

20.3428, 12.1964, 6.4362

Achromatopsia

9.9438, 10.4616, 11.3927

Achromatomaly

12.2029, 10.0545, 9.2802

CSS Examples

Text

The CSS property to change the color of the text to XYZ 20.3428, 12.1964, 6.4362 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(177, 52, 66)` looks like.

```
.text, #text, p{  
    color:rgb(177, 52, 66)  
}
```

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(177, 52, 66) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(177, 52, 66) }
```

Border

The CSS property to change the border of an element to XYZ 20.3428, 12.1964, 6.4362 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(177, 52, 66) }
```


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

```
.border{ border-color:rgb(177, 52, 66) }
```

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

Here you see how a box with a 4 pixel rgb(177, 52, 66) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(177, 52, 66); -webkit-box-  
shadow:4px 4px 4px 4px rgb(177, 52, 66);  
box-shadow:4px 4px 4px 4px rgb(177, 52,  
66) }
```

Background

The CSS property to change the background color of an element to XYZ 20.3428, 12.1964, 6.4362 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(177, 52, 66) }
```

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

```
.background{ background-color: rgb(177, 52,  
66) }
```

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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