

Converting Colors

XYZ(20.8280, 12.5119, 13.8207)

Have a look what the booklet for
XYZ(20.8280, 12.5119, 13.8207)
contains.

XYZ(20.7777, 12.4623, 13.8807)	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(20.7777, 12.4623,
13.8807)**

Conversions

Conversions Part 1

Format	Color
Hex	AC3766
RGB	172, 55, 102
RGB Percent	67%, 22%, 40%
CMY	0.3255, 0.7843, 0.6000
CMYK	0.00, 0.68, 0.41, 0.33
HSL	336°, 52%, 45%
HSV	336°, 68%, 67%
XYZ	20.7777, 12.4623, 13.8807
YIQ	95.3410, 54.6450, 39.4210

Conversions

Conversions Part 2

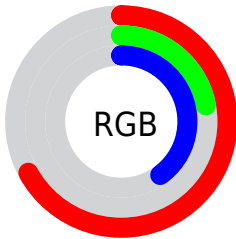
Format	Color
R_{YB}	172, 55, 102
Decimal	11286374
CIE Lab	41.94, 51.45, -0.76
CIE LCh	42, 51.458, 359.156
Yxy	12.4623, 0.4409, 0.2645
Android (android.graphics.Color)	4289476454 (0xFFAC3766)
YUV	95.3410, 3.2829, 67.2299
Hunter-Lab	35.3020, 43.2813, 1.3986

Details

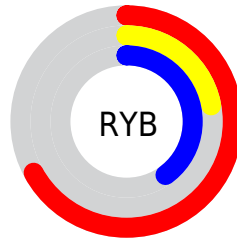
The XYZ color **20.7777, 12.4623, 13.8807** is a dark color, and the websafe version is hex **993366**. A complement of this color would be **20.0305, 31.7983, 24.4861**, and the grayscale version is **10.9428, 11.5127, 12.5373**.

A 20% lighter version of the original color is **44.2807, 30.4407, 33.6788**, and **7.7598, 3.9207, 3.9622** is the 20% darker color. If you saturate the color by 10%, you get **19.6193, 10.9122, 11.1309**, and if you desaturate by 10%, it is **22.2849, 14.6085, 17.0596**.

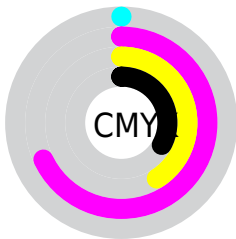
Distribution



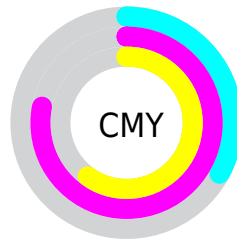
- Red (67%)
- Green (22%)
- Blue (40%)



- Red (67%)
- Yellow (22%)
- Blue (40%)



- Cyan (0%)
- Magenta (68%)
- Yellow (41%)
- Black (33%)




- Cyan (33%)
- Magenta (78%)
- Yellow (60%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 20.7777, 12.4623, 13.8807 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 20.7777, 12.4623, 13.8807 by changing the saturation by 10% instead.


 20.7777, 12.4623,
13.8807


 20.7777, 12.4623,
13.8807


248.8489,
207.4423, 227.8900


 13.0731, 7.0593,
7.8999


 44.2113, 30.3343,
33.5913


 7.5563, 3.4992,
3.9441


 60.6711, 43.5722,
48.1582


 3.8618, 1.3976,
1.5947

 80.7800, 60.1905,
66.4242

 1.6242, 0.2150,
0.2871

 104.9034, 80.5736,
88.8078

 0.4081, 0.0000,
0.0000

 133.4066,
105.1060, 115.7277

 0.0000, 0.0000,
0.0000

 166.6551,

134.1719, 147.6023

205.0140,
168.1559, 184.8502

■ 20.7777, 12.4623,
13.8807

■ 20.7777, 12.4623,
13.8807

■ 19.6193, 10.9122,
11.1309

■ 22.2849, 14.6085,
17.0596

■ 18.7752, 9.8930,
8.7870

■ 24.1686, 17.4029,
20.6874

■ 18.1916, 9.3012,
6.8191

■ 26.4549, 20.8942,
24.7832

■ 18.0902, 9.2014,
6.4672

■ 29.1671, 25.1257,
29.3646

■ 32.3266, 30.1374,
34.4481

■ 35.9534, 35.9661,
40.0495

■ 40.0662, 42.6466,
46.1839

■ 44.6827, 50.2114,
52.8654

■ 49.8196, 58.6914,
60.1079

Harmonies

Analogous

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



19.3087, 12.4623, 27.4093



20.7777, 12.4623, 13.8807



19.4586, 12.4623, 5.7029

Triad

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



20.7777, 12.4623, 13.8807



8.6241, 12.4623, 2.2596



8.4738, 12.4623, 40.7076

Complementary

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



20.7777, 12.4623, 13.8807



20.0305, 31.7983, 24.4861

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.



6.5325, 12.4623, 26.5629



20.7777, 12.4623, 13.8807



6.6054, 12.4623, 5.4078

Square

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



20.7777, 12.4623, 13.8807



11.9533, 12.4623, 1.5476



5.9288, 12.4623, 13.2626



11.7375, 12.4623, 47.1882

Rectangle

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



20.7777, 12.4623, 13.8807



17.3077, 12.4623, 3.0850



5.9288, 12.4623, 13.2626



7.6729, 12.4623, 36.4158

Sweetspot

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



20.7780, 12.4630, 13.8809



57.2300, 52.4167, 60.2538



17.0175, 9.9412, 40.0516



12.0929, 10.8439, 12.5434



82.5889, 86.8899, 94.6231



15.4596, 16.2647, 17.7123

Same Dimension

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



20.7780, 12.4630, 13.8809



34.6913, 18.6773, 17.7871



19.5793, 12.7992, 5.0538



8.1335, 8.0667, 9.0141



13.4877, 6.8576, 4.9479



0.4027, 0.2018, 0.2824

Inverse Universe

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



20.7780, 12.4630, 13.8809



34.6913, 18.6773, 17.7871



21.9868, 29.7200, 43.6074



8.1335, 8.0667, 9.0141



13.4877, 6.8576, 4.9479



0.4027, 0.2018, 0.2824

Previews

White Background



This preview shows how the XYZ color 20.7777, 12.4623, 13.8807 looks on a white background.

Color Contrast Check

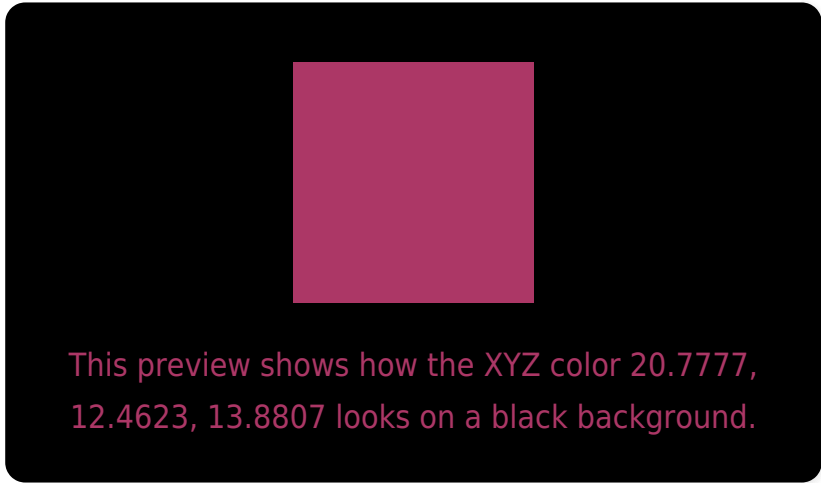
Large Text (above 18pt) WCAG AA ✓ Pass

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 20.7777, 12.4623, 13.8807

Background



This preview shows how black text looks on a background with the XYZ color 20.7777, 12.4623, 13.8807.



This preview shows how white text looks on a background with the XYZ color 20.7777, 12.4623,

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

20.7777, 12.4623, 13.8807

Protanopia

12.8379, 12.7840, 22.5598

Deuteranopia

12.8497, 12.5898, 12.8191



Tritanopia

19.3682, 12.5063, 6.7033

Trichromacy



Original Color

20.7777, 12.4623, 13.8807

Protanomaly

14.3082, 11.5834, 18.9345

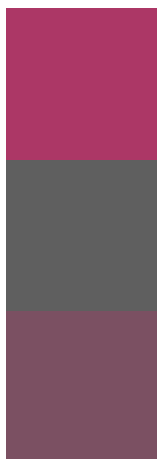
Deuteranomaly

14.8199, 11.7532, 13.0428

Tritanomaly

19.8584, 12.4688, 8.9495

Monochromacy



Original Color

20.7777, 12.4623, 13.8807

Achromatopsia

10.8771, 11.4435, 12.4620

Achromatomaly

13.2416, 10.8301, 12.9478

CSS Examples

Text

The CSS property to change the color of the text to XYZ 20.7777, 12.4623, 13.8807 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(172, 55, 102)` looks like.

```
.text, #text, p{  
    color:rgb(172, 55, 102)  
}
```

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(172, 55, 102) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(172, 55, 102) }
```

Border

The CSS property to change the border of an element to XYZ 20.7777, 12.4623, 13.8807 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(172, 55, 102) }
```


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

```
.border{ border-color:rgb(172, 55, 102) }
```

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

Here you see how a box with a 4 pixel `rgb(172, 55, 102)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(172, 55, 102); -webkit-box-  
shadow:4px 4px 4px 4px rgb(172, 55, 102);  
box-shadow:4px 4px 4px 4px rgb(172, 55,  
102) }
```

Background

The CSS property to change the background color of an element to XYZ 20.7777, 12.4623, 13.8807 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(172, 55, 102) }
```

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

```
.background{ background-color: rgb(172, 55,  
102) }
```

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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