

# Converting Colors

XYZ(20.2352, 18.1951, 40.4760)

Have a look what the booklet for  
XYZ(20.2352, 18.1951, 40.4760)  
contains.

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# Color

**XYZ(20.2523, 18.2036,  
40.4764)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	7470AA
RGB	116, 112, 170
RGB Percent	45%, 44%, 67%
CMY	0.5451, 0.5608, 0.3333
CMYK	0.32, 0.34, 0.00, 0.33
HSL	244°, 25%, 55%
HSV	244°, 34%, 67%
XYZ	20.2523, 18.2036, 40.4764
YIQ	119.8080, -16.2340, 18.8860

# Conversions

## Conversions Part 2

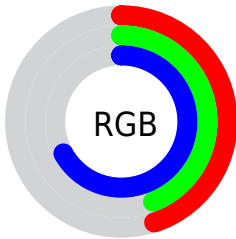
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	116, 112, 170
Decimal	7631018
CIE Lab	49.74, 15.27, -30.46
CIE LCh	50, 34.071, 296.626
Yxy	18.2036, 0.2566, 0.2306
Android (android.graphics.Color)	4285821098 (0xFF7470AA)
YUV	119.8080, 24.7447, -3.3396
Hunter-Lab	42.6657, 10.0644, -26.3817

# Details

The XYZ color **20.2523, 18.2036, 40.4764** is a dark color, and the websafe version is hex **666699**. A complement of this color would be **33.0256, 38.0266, 20.9291**, and the grayscale version is **17.7191, 18.6418, 20.3009**.

A 20% lighter version of the original color is **43.3651, 40.4769, 77.4787**, and **7.2243, 6.0750, 17.6214** is the 20% darker color. If you saturate the color by 10%, you get **16.6230, 13.8064, 39.8193**, and if you desaturate by 10%, it is **24.5955, 23.4953, 41.2692**.

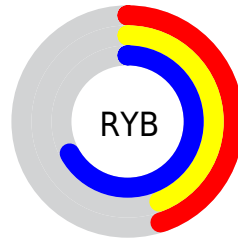
# Distribution



Red (45%)

Green (44%)

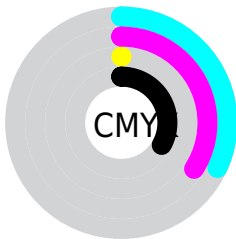
Blue (67%)



Red (45%)

Yellow (44%)

Blue (67%)

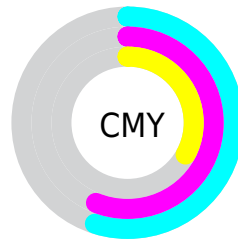


Cyan (32%)

Magenta (34%)

Yellow (0%)

Black (33%)



Cyan (55%)

Magenta (56%)

Yellow (33%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 20.2523, 18.2036, 40.4764 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 20.2523, 18.2036, 40.4764 by changing the saturation by 10% instead.



■ 20.2523, 18.2036,  
40.4764

■ 20.2523, 18.2036,  
40.4764

246.0853,  
242.0161, 363.7391

■ 12.6879, 11.0963,  
27.5936

■ 43.3405, 40.3839,  
77.1334

■ 7.2895, 6.1316,  
17.7831

■ 59.5950, 56.2257,  
101.7447

■ 3.6917, 2.9253,  
10.6266

■ 79.4770, 75.7478,  
131.1025

■ 1.5293, 1.0928,  
5.7053

■ 103.3517, 99.3346,  
165.6255

■ 0.3456, 0.0000,  
2.6009

131.5845,  
127.3704, 205.7321

■ 0.0000, 0.0000,  
0.8929

164.5408,

■ 0.0000, 0.0000,

160.2396, 251.8408

0.0000

202.5860,  
198.3268, 304.3703

■ 20.2523, 18.2036,  
40.4764

■ 20.2523, 18.2036,  
40.4764

■ 16.6230, 13.8064,  
39.8193

■ 24.5955, 23.4953,  
41.2692

■ 13.6676, 10.2523,  
39.2890

■ 29.6859, 29.7248,  
42.2033

■ 11.3449, 7.4877,  
38.8778

■ 35.5572, 36.9354,  
43.2857

■ 9.6086, 5.4524,  
38.5765

■ 42.2403, 45.1668,  
44.5223

■ 8.4058, 4.0771,  
38.3744

■ 49.7645, 54.4567,  
45.9188

■ 7.6744, 3.2793,  
38.2590

■ 58.1577, 64.8409,  
47.4808

■ 7.4036, 2.9785,  
38.2152

■ 67.4464, 76.3532,  
49.2133

■ 77.6561, 89.0264,  
51.1214

■ 84.2558, 95.6823,  
52.0583

# Harmonies

## Analogous

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



16.9373, 18.2036, 43.5522



20.2523, 18.2036, 40.4764



23.0545, 18.2036, 31.3682

# Triad

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



20.2523, 18.2036, 40.4764



20.9672, 18.2036, 8.3279



11.7898, 18.2036, 18.7872

# Complementary

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



20.2523, 18.2036, 40.4764



33.0256, 38.0266, 20.9291

# 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.



12.5961, 18.2036, 11.5246



20.2523, 18.2036, 40.4764



17.6719, 18.2036, 6.7966

# Square

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



20.2523, 18.2036, 40.4764



23.5021, 18.2036, 12.8411



14.6531, 18.2036, 7.7516



12.3011, 18.2036, 28.9583



# Rectangle

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



20.2523, 18.2036, 40.4764



24.1115, 18.2036, 24.2490



14.6531, 18.2036, 7.7516



11.9129, 18.2036, 15.9672

# Sweetspot

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



20.2529, 18.2043, 40.4768



57.8814, 58.8640, 77.3131



27.5987, 33.6684, 43.0745



12.5912, 12.7383, 17.1828



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.



20.2529, 18.2043, 40.4768



31.6100, 26.8017, 72.5091



24.7040, 20.4989, 40.6851



7.1779, 7.3243, 9.4538



5.4651, 2.2008, 28.1122



0.1475, 0.0610, 0.6847



# Inverse Universe

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



29.2551, 22.8881, 38.9526



50.5200, 36.6454, 69.0897



27.6382, 35.2493, 20.6770



7.8192, 7.6576, 9.3653



16.7604, 8.1129, 24.6134



0.4142, 0.1999, 0.6325



# Previews

## White Background



This preview shows how the XYZ color 20.2523, 18.2036, 40.4764 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 20.2523, 18.2036, 40.4764 looks on a black 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

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

**XYZ 20.2523, 18.2036, 40.4764**

## **Background**



This preview shows how black text looks on a background with the XYZ color 20.2523, 18.2036, 40.4764.



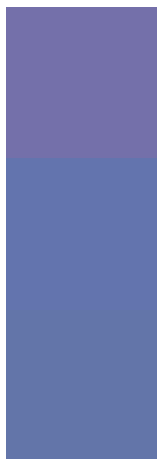
This preview shows how white text looks on a background with the XYZ color 20.2523, 18.2036,



# 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

20.2523, 18.2036, 40.4764

### Protanopia

19.0310, 18.1994, 42.5542

### Deuteranopia

18.6683, 18.2398, 40.0728



## Tritanopia

16.8091, 18.1704, 23.7404

# Trichromacy



## Original Color

20.2523, 18.2036, 40.4764

## Protanomaly

19.4993, 18.2819, 42.0362

## Deuteranomaly

19.1179, 18.1293, 40.0278

## Tritanomaly

17.9025, 18.0819, 29.3347

# Monochromacy



## Original Color

20.2523, 18.2036, 40.4764

## Achromatopsia

17.8524, 18.7821, 20.4537

## Achromatomaly

18.5565, 18.4795, 26.6336

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 20.2523, 18.2036, 40.4764 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(116, 112, 170)` looks like.

```
.text, #text, p{  
    color:rgb(116, 112, 170)  
}
```

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(116, 112, 170) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(116, 112, 170) }
```

## Border

The CSS property to change the border of an element to XYZ 20.2523, 18.2036, 40.4764 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(116, 112, 170) }
```



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

```
.border{ border-color:rgb(116, 112, 170) }
```

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

Here you see how a box with a 4 pixel `rgb(116, 112, 170)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(116, 112, 170); -webkit-box-  
shadow:4px 4px 4px 4px rgb(116, 112, 170);  
box-shadow:4px 4px 4px 4px rgb(116, 112,  
170) }
```

# Background

The CSS property to change the background color of an element to XYZ 20.2523, 18.2036, 40.4764 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(116, 112, 170) }
```

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

```
.background{ background-color: rgb(116,  
112, 170) }
```

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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