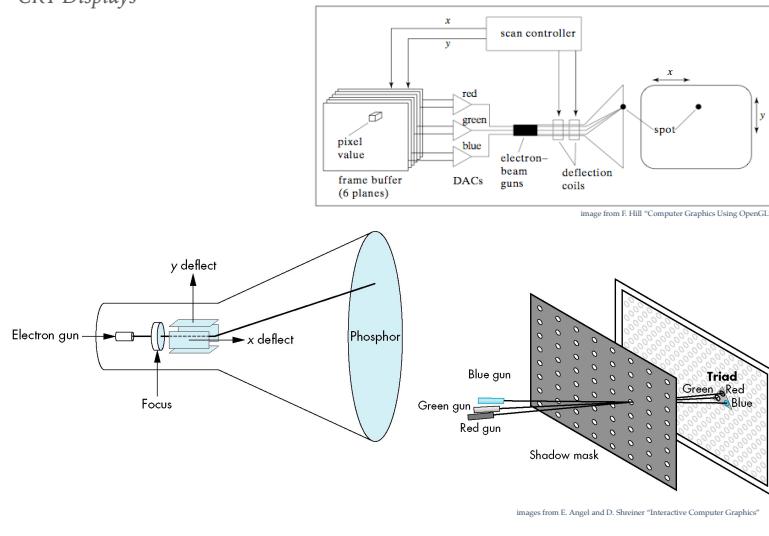
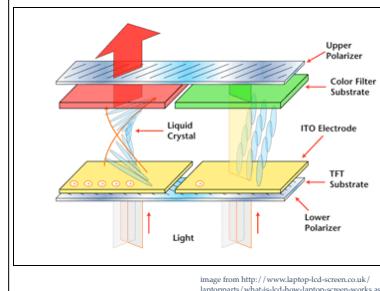


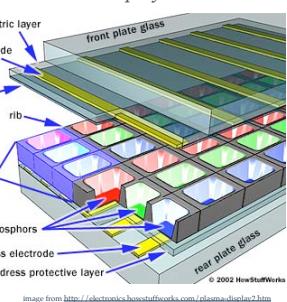
### CRT Displays



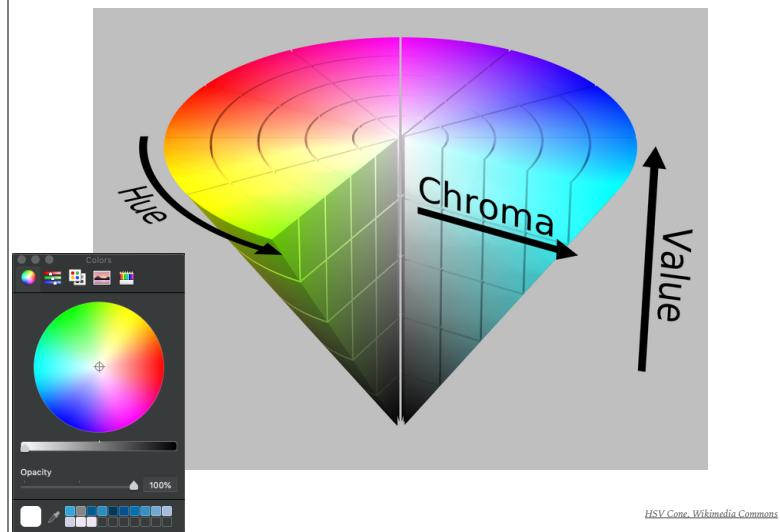
### LCD / LED displays



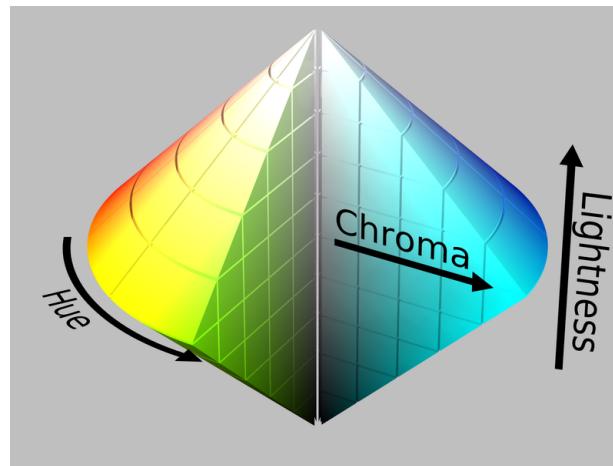
### Plasma displays

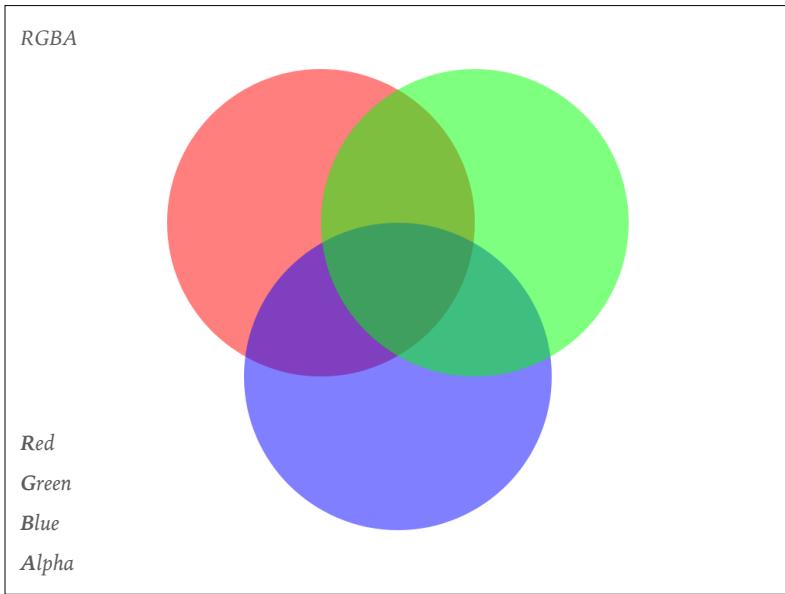


### Hue Saturation Value [or Brightness] (HSV/HSB)



### Hue Saturation Lightness (HSL)



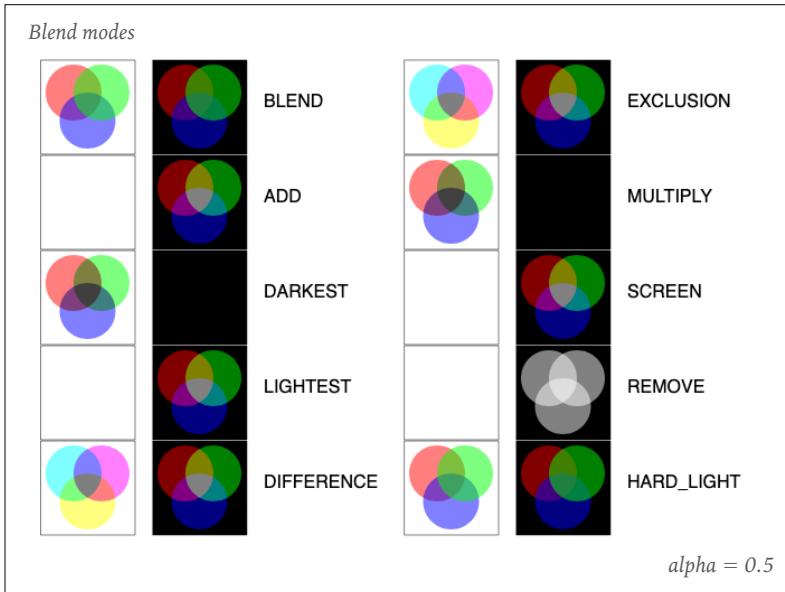


Blend modes

*D - destination pixel  
S - source pixel*

Blend Mode	Behavior
BLEND	$D' = D * (1-\alpha) + S * \alpha$
ADD	$D' = D + S * \alpha$
DARKEST	$D' = \min(S * \alpha, D)$
LIGHTEST	$D' = \max(S * \alpha, D)$
DIFFERENCE	$D' = \max(D - S * \alpha, S * \alpha - D)$
EXCLUSION	similar to DIFFERENCE but “less extreme”
MULTIPLY	$D' = D * S * \alpha$
SCREEN	$D' = 1 - ((1 - D) * (1 - S))$
REPLACE	$D' = S$
REMOVE	remove pixels from D with alpha strength of S
OVERLAY	Mix of MULTIPLY and SCREEN, multiplies dark values, screens light values
HARD_LIGHT	SCREEN when > 50% gray, MULTIPLY when lower
SOFT_LIGHT	Mix of DARKEST and LIGHTEST. Woks like OVERLAY, but not as harsh
DODGE	$D' = D / (1 - (S * \alpha))$ , lightens light tones, increases contrast, ignores darks
BURN	$D' = 1 - ((1-D) / (S * \alpha))$ , darkens dark tones, increases contrast, ignores lights

<https://p5js.org/reference/#/p5/blendMode>  
[https://developer.mozilla.org/en-US/docs/Web/API/Canvas\\_API/Tutorial/Compositing](https://developer.mozilla.org/en-US/docs/Web/API/Canvas_API/Tutorial/Compositing)



aliceblue #F0F8FF	darkslategray #2F4F4F	lightpink #FFB6C1	palevioletred #B2D0FF
antiquewhite #FAEBD7	darkviolet #9400D3	lightsalmon #FFA07A	paperwhite #FFFED5
aqua #00FFFF	darkslateblue #4F81BD	lightseagreen #20B2AA	peachpuff #FFDAB9
aqamarine #00FFFF	darkvioletred #9400D3	lightsteelblue #87CEFA	peru #CD853F
azure #00FFFF	deepskyblue #00BFFF	lightteal #778899	pink #FF69B4
beige #F5F5D9	dimgray #696969	lightyellow #FFFFE0	plum #DDA0DD
bisque #FFE4C4	dimgrey #696969	lime #00FF00	powderblue #B0E0E6
black #000000	desaturated #1E90FF	linen #FFF176	purple #800080
blanchedalmond #FFEB3B	firebrick #B22222	magenta #FF00FF	rebeccapurple #663399
blue #0000FF	floridwhite #FFFAD0	maroon #800000	red #FF0000
blueviolet #8A2BE2	forestgreen #228B22	mediumblue #0000CD	rosybrown #BC0080
brown #A52A2A	fuchsia #FF00FF	mediumorchid #BA55D3	ryalusblue #4169E1
burlywood #DEB887	gainsboro #CCCCCC	mediumpurple #9370DB	saddlebrown #8B4513
cadetblue #5F9EA0	ghostwhite #F8F8FF	mediumseagreen #3CB371	salmon #FFA07A
chartreuse #FF4500	ghstwhite #F8F8F8	mediumslateblue #7B68EE	sandybrown #FFDAB9
chocolate #D2691E	gold #FFD700	mediumspringgreen #00FF66	seagreen #228B22
coral #FF7043	goldenrod #DAA520	mediumtangerine #483DCC	seashell #FFFACD
cornflowerblue #4682B4	gray #808080	mediumteal #008080	sienna #A0522D
corset #FFB6C1	green #008000	mediumvioletred #9370DB	silver #C0C0C0
crimson #DC143C	greenyellow #00FF00	midnightblue #191970	skyblue #87CEEB
cyan #00FFFF	grey #808080	mintcream #F5F5F5	slateblue #6A5ACd
darkblue #00008B	honeydew #F0FFF0	mojave #F0F0F0	slategray #708090
darkcyan #00808B	hotpink #FF00FF	mustardyellow #FFDAB9	slategrey #708090
darkgoldenrod #8B8000	indianred #CD5C5C	navajowhite #FFDAB9	snow #FFF1FA
darkgreen #006400	indigo #4B0082	olivedrab #6B8E23	springgreen #00FF7F
darkgray #A9A9A9	ivory #FFFFF0	orange #FF8C00	steelblue #4682B4
darkgrey #A9A9A9	khaki #FFDAB9	orangered #FF4500	tan #D2B48C
darkkhaki #BDB76B	lavender #E6E6FA	orchid #DA70D6	teal #008080
darkmagenta #80008B	lavenderblush #F0E6FF	olive #808000	thistle #D8BFD8
darkolivegreen #556B2F	lawngreen #7FFF00	olivedrab #6B8E23	tomato #FF6347
darkorange #FF8C00	lemonchiffon #FFFACD	orange #FF8C00	turquoise #40E0D0
darkorchid #9370DB	lightblue #ADD8E6	orangered #FF4500	violet #800080
darkred #800000	lightcyan #E0FFFF	orchid #DA70D6	wheat #F5F5B7
darksalmon #FF8C80	lightgoldenrodyellow #FFFACD	olivedrab #6B8E23	white #FFFFFF
darkseagreen #8FB88F	lightgray #D3D3D3	orange #FF8C00	whitesmoke #F5F5F5
darkslategray #483D8B	lightgreen #90EE90	orangered #FF4500	yellow #FFFF00
darkslategray #2F4F4F	lightgrey #D3D3D3	orchid #DA70D6	yellowgreen #9ACD32

<https://drafts.csswg.org/css-color/>

