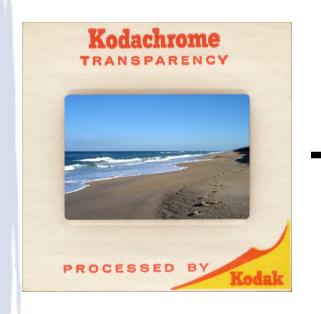
LEANON CAMERA CUR

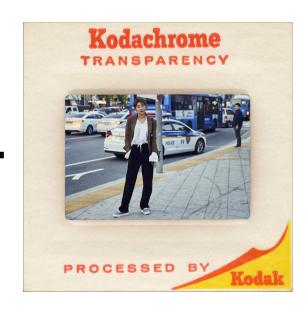
Image Editing with Layers, Part I

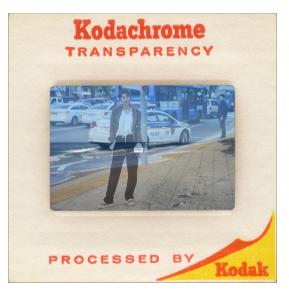
3/6/2018

What are layers?

- Feature in some image editors
 - Combine images, image elements, or image adjustments







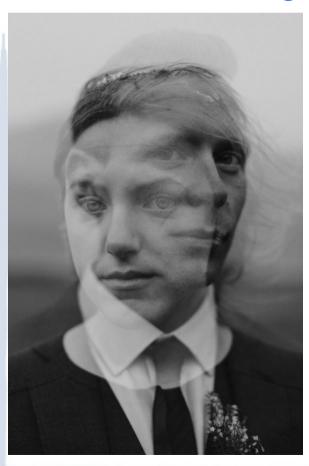
double exposure

Note: On film cameras the shutter could be cocked without advancing the film to permit multiple exposures — some digital cameras have a multiple exposure mode

What are layers?

Note: A "true" double exposure is one where the full images are shown, with no selective editing

- Feature in some image editors
 - Combine images, image elements, or image adjustments

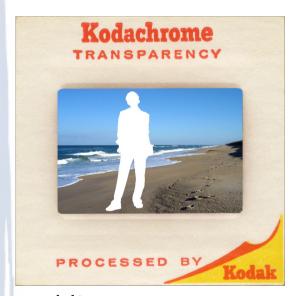






What are layers? Note: In this example white areas are "clear" → in editors a checkerboard pattern indicates transparency

- Feature in some image editors
 - Combine images, image elements, or image adjustments



white area means that the slide would be clear → all light would pass through





composite image (photomontage) → combines image elements from two or more images

What are layers?

Note: Layers are not necessary to produce composite images, but they make them much easier to create and modify

- Feature in some image editors
 - Combine images, image elements, or image adjustments





What are layers?

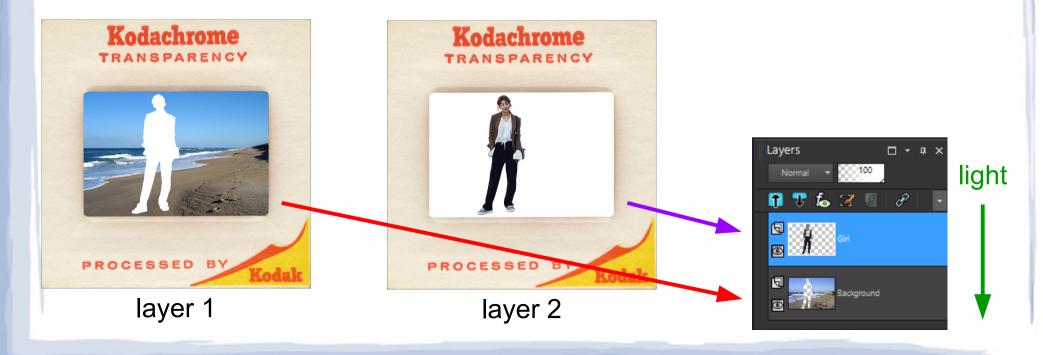
Note: This image is composed of approximately 20 different layers

- Feature in some image editors
 - Combine images, image elements, or image adjustments



What are layers? Note: In this example white areas are "clear" → in editors a checkerboard pattern indicates transparency

- Feature in some image editors
 - Combine images, image elements, or image adjustments
 - ► Layers are arranged in a "stack" → "light" passes from top to bottom
 - Allows independent control of image modifications
 - > Layers can be turned on or off to apply or remove changes



What are layers?

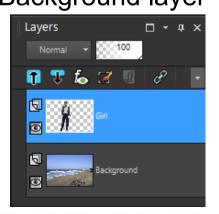
- Feature in some image editors
 - Combine images, image elements, or image modifications
 - ➤ Layers are arranged in a "stack" → "light" passes from top to bottom
 - Allows independent control of image modifications
 - > Layers can be turned on or off to apply or remove changes
 - Image editors that have layer capability
 - Photoshop
 - Photoshop Elements (recent versions only)
 - Paint Shop Pro
 - Gimp (free software)
 - > Adobe Lightroom (not explicitly, workarounds to achieve similar results)

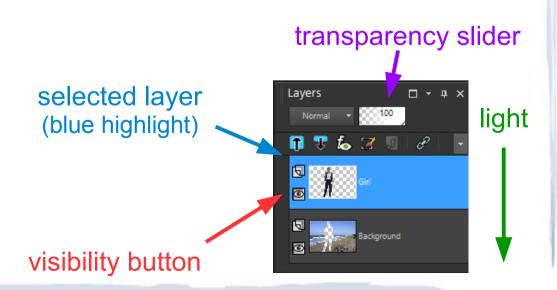
Layer controls

Visibility

- Note: Layers can be reordered within the stack by dragging them to a new location a "Layer Properties" dialog box adjusts layer settings
- On-off control → non-visible layer is transparent
 - May be indicated by a button that looks like an eye
- Transparency \rightarrow 0% to 100%
 - 0% is transparent, 100% is fully opaque (nothing below visible)
 - > 50% gives equal "light" to the layer and everything below it

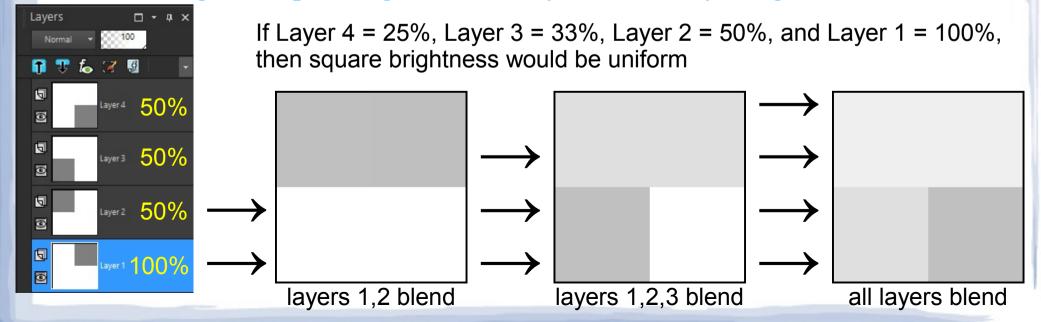
same result without transparency on Background layer





Layer controls

- Visibility
 - On-off control → non-visible layer is transparent
 - > May be indicated by a button that looks like an eye
- Transparency \rightarrow 0% to 100%
 - 0% is transparent, 100% is fully opaque (nothing below visible)
 - > 50% gives equal "light" to the layer and everything below it

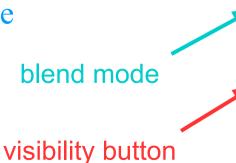


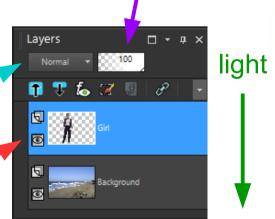
Layer controls

Note: Transparency affects the intensity of the blend modes

- Visibility
 - On-off control → non-visible layer is transparent
 - > May be indicated by a button that looks like an eye
- Transparency \rightarrow 0% to 100%
 - 0% is transparent, 100% is fully opaque (nothing below visible)
 - > 50% gives equal "light" to the layer and everything below it
- Blend mode → determines layer interaction

 Different elegatibles for layer blanding transparency slider
 - Different algorithms for layer blending
 - ➤ Normal → straight blend
 - > Hue Saturation Luminance
 - Darken Lighten
 - Multiply
 - Difference
 - Dodge Burn





Layer controls

Note: Layer order can affect blend results, for blend modes other than normal

- Blend mode → determines layer interaction
 - Examples

girl layer above beach layer – girl layer blend @ 50% transparency









normal

hue

luminance

difference







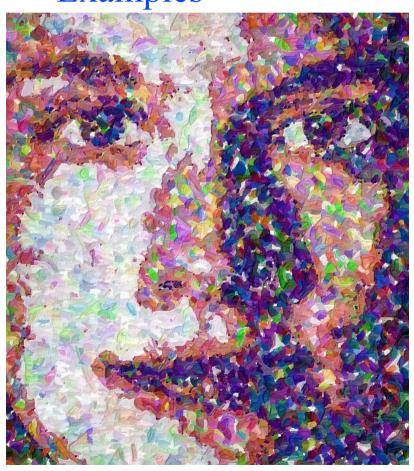


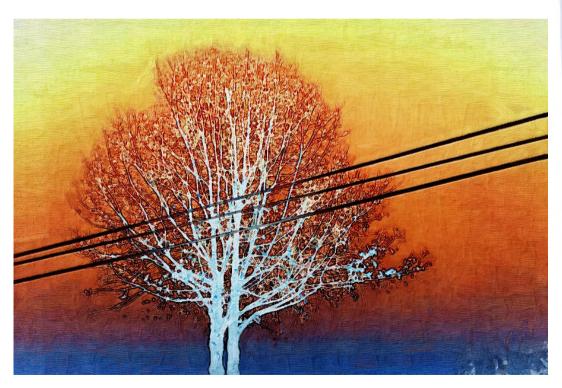
beach layer above girl layer – beach layer blend @ 50% transparency

Layer controls

Note: Blends are useful for creative images, often in conjunction with other effects

- Blend mode → determines layer interaction
 - Examples





Types of layers

- Image
 - Raster → normal image layer
 - Vector → used for graphics such as text or lines
- POLET BY
 - hue = +90

- Adjustment → modifies image layers
 - No image information (thumbnail is white)
 - Examples
 - > Brightness & contrast
 - > Hue, saturation, lightness
 - > White balance
 - ➤ Chanel mixer → controls conversion to black & white image
- Mask → selectively controls visibility of other layers
 - Critical for making composite images
- Group → treats several layers as a single entity

