



Computer Graphics and Animations

ADOBE PHOTOSHOP 7

Advanced Image Blending Options & Layer Tricks

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Layer Tricks – Isolating & Managing Layers

- Opening an existing project for demonstration
- Isolating layers by right-clicking and selecting Show/Hide All Other Layers
- Holding Alt (Windows) or Option (Mac) and clicking the eye icon to isolate one layer
- Layers can be color-coded for better organization using the layer options
- Right-clicking on a layer thumbnail allows color changes and other management tools
- Thumbnail views can be customized: document bounds, layer bounds, or various sizes
- Layer panel additional options: blending settings, pixel selection, and styles
- Double-clicking the layer opens the Layer Style panel for advanced editing





Filtering Layers to Enhance Workflow

- Photoshop provides filter tools to isolate layers based on Kind, Name, Effect, etc.
- Using the Kind filter to isolate layers by type: pixel, text, shape, smart object
- Filtering by Name to search specific layers in complex compositions
- Using Effect filter to isolate layers with specific styles (Drop Shadow, Bevel & Emboss)
- Using Blending Mode filter to highlight layers with a particular blending behavior
- Using Attributes filter to isolate based on visibility, lock status, masks, etc.
- Filtering by Color to view layers assigned specific organizational colors
- Multiple filters can be combined to target precise sets of layers for editing





Advanced Blending Options - Knockouts

- Knockouts function similarly to layer masks but offer additional features
- Using knockouts to puncture holes through layers down to the background layer
- Can be applied using blending options and fill opacity adjustments
- Two types: **Shallow** (within groups) and **Deep** (across all layers)
- New A4 document; demonstration using text and shape layers
- Comparison between knockouts and layer masks using brush tool
- Revealing transparency by hiding background or using knockout technique
- Font recommendation: Clash Display Bold (free for non-commercial use)





Applying Knockouts Practically

- Accessing knockout effect via Layer > Blending Options > Knockout
- Setting fill opacity to zero activates the knockout transparency
- Shallow knockout affects only layers inside the same group
- Deep knockout punches through all layers down to the background
- Inserting text "DESIGN" with vertical orientation
- Positioning shapes (rectangles) beneath text to reveal knockout
- Knockout visibility depends on correct grouping and stacking
- Using PNG textures like halftone patterns to explore depth and structure
- Enhance depth using duplicated halftone layer with Deep Knockout and drop shadow





Creative Uses & Enhancements

- Using layer mask and brush tools to create vignette effects on background
- Adjusting hardness and brush size controls the transparency transition
- Applying additional knockouts to duplicate textures for layered results
- Setting fill opacity to zero to maintain knockout transparency
- Adding drop shadow to the group for enhanced depth and separation
- Cropping and cleaning composition for final design output
- Using multiple knockouts to create complex visual compositions
- Saving and exporting final design for future use





Advanced Blending Options – Color Channels

- Color channels represent the separate Red, Green, and Blue components of an image
- Photoshop primarily uses the RGB color model for image composition
- Each image layer can be split by channel using Blending Options
- Starting by opening an image and unlocking the background layer (duplicating it as backup)
- Accessing Blending Options by double-clicking the layer
- Unchecking two of the three RGB channels to isolate one color per duplicated layer
- Result: three layers representing Red, Green, and Blue channel data independently
- Toggling layers on/off to show how combinations recreate the full image





Creating Glitch Effect with Channel Manipulation

- Offsetting individual color channel layers to create a visual glitch effect
- Using arrow keys for precise horizontal or vertical shifts
- Duplicating and scaling layers to enhance the visual intensity
- Applying blending modes like Lighten and adjusting opacity for subtler effects
- Using the Rectangular Marquee Tool to select image sections for targeted shifts
- Moving selections within individual channels to intensify glitch complexity
- Combining with texture layers and masks for added artistic depth
- Final results demonstrate how designers craft complex visuals using basic channel offsets





Introduction to Blend If in Photoshop

- Blend If: a blending tool found in the Layer Style dialog under Blending Options
- Enables blending based on color or light intensity
- Applying to both the current layer and the underlying layer
- Adjusting using sliders for darks and lights
- Precise blending creates hard transitions
- Holding Alt (Option on Mac) splits sliders for soft transitions
- Effective for non-destructive and flexible layer interaction
- Works with gray or specific color channels (Red, Green, Blue)





- Using Blend If for Sky Replacement
- Import a High-contrast image for sky removal demonstration
- Unlock the image layer and access Blending Options
- Under **Blend If**, switch to the **Blue** channel for color-based blending
- Drag the light slider to erase bright (sky) parts
- Hold Alt to split the slider and create a soft transition
- Minimized manual selection effort around complex details like branches
- Achieved realistic sky removal in seconds
- New sky image can be placed underneath for seamless replacement





- Using Blend If for blending a logo on a wall
- Import a wall texture and a transparent logo
- Convert logo to Smart Object and duplicate into three versions
- Set blending mode: one layer to **Multiply** (dark) and one to **Screen** (bright)
- Use Blend If to separately blend bright and dark layers into the texture
- Adjust sliders with Alt/Option for smoother transitions
- Reorder layers to enhance realistic texture absorption
- Group layers for organized editing
- · Blend If created natural-looking logo integration on the wall





- Import grunge texture to create a custom layer mask
- Apply texture directly into the group's mask via Alt/Option + Click and Paste
- Invert mask using Ctrl/Cmd + I for correct blending behavior
- Unlink mask from the group to allow independent movement
- Adjust mask position and scale to refine texture overlay
- Add Curves Adjustment on mask to control blending depth
- Further curves adjustment to match lighting direction for realism
- Final result: authentic logo-texture fusion using Blend If and custom masking





Understanding Apply Image in Photoshop

- Apply Image enables advanced blending using individual color channels (Red, Green, Blue)
- Useful for color correction, image blending, and creative effects
- Unlike standard blend modes, allows targeting or omitting specific channels
- Accessing via Image > Apply Image with a selected layer
- Requires two layers or images of the same dimensions to blend
- Provides options for source, layer, channel, and blending mode
- Allows preview of real-time changes to visual effects
- Masking can be applied using any image/layer and color channel





Key Functions & Workflow

- Demonstration begins by duplicating and unlocking base layer for nondestructive editing
- Choosing source image and selecting the working layer from the list
- Available channels: RGB, Red, Green, Blue, Transparency (if present)
- Each channel produces distinct effects during blending
- Blend modes include Normal, Multiply, Darken, Soft Light, etc.
- Using opacity slider for fine-tuning of the blending intensity
- Masking enables selective application using a second image or specific channel
- Real-time preview toggle assists in evaluating before/after results





Practical Applications & Creative Uses

- Channel blending enhance highlights, shadows, or isolate color effects
- Using Apply Image across different images after matching their resolution
- Using Crop Tool with Front Image setting to align sizes for cross-document blending
- After resizing, Apply Image can source from another open document
- Scaling and offsetting adjustments appear with certain blending modes
- Creative color grading or texture blending between two visuals
- Combining with Levels or Curves for extended correction
- Iterative Apply Image use allows multi-stage enhancement
- Highly versatile for compositing, retouching, and artistic imaging tasks





Introduction to Calculations in Photoshop

- Calculations are similar to Apply Image; focusing on channel blending with grayscale results
- Using Calculations to combine images through blending modes and color channels
- Primary output is a black-and-white image; used for further image processing
- Creating outputs as either a new channel or a new document
- Advanced workflows like image selection and background removal
- Workflow: Image > Calculations; choosing source image, channels, blending mode, and output method
- Supporting opacity adjustment, invert option, and blending modes
- Working on single or multiple images (dimensions must match for multi-image blending)





Practical Use of Calculations

- Converting an image of a person into a high-contrast black-and-white using Calculations
- Using Red/Green/Blue channels and blending modes to create dramatic effects
- Refining the result using Levels (Ctrl/Cmd + L) and Curves (Ctrl/Cmd + M)
- Enhancing features with *Dodge Tool* for selective brightening (eyes, beard)
- Adding sharpness using Filter > Sharpen > Unsharp Mask to emphasize details
- Ensuring both images are the same dimensions for blending with another image
- Using Crop Tool with Front Image setting to match sizes before calculations
- Blending two images via Calculations with chosen source, channels, and blending mode for creative output





Introduction to Auto-Blend in Photoshop

- Using Auto-Blend to seamlessly merge two or more images
- Helps in avoiding manual blending modes and layer masks by automating the blending process
- Ideal when combining elements with similar structures (face blending, exposure merging, panorama stitching)
- Working best when the source images are similar in lighting, alignment, and subject scale
- Accessing Auto-Blend via Edit > Auto-Blend Layers







- Replacing one face with another using blending
- Use Lasso Tool to manually select and extract the face from the first image
- Duplicate selection using Ctrl/Cmd + J, move to the target image with Move Tool
- Resize, rotate, and position the face; use *Eraser Tool* to clean up edges
- Create a selection from layer thumbnail and use
 Select > Modify > Contract (16px)
- Delete selection from the base layer to prepare for blending
- Select both layers and apply Auto-Blend with Stack Images
- Use Spot Healing Brush and adjustments (Levels, Hue/Saturation) for refinements





- Merging animal faces
- Drag tiger image into lion file and reduce opacity for alignment
- Align key features: eyes, nose, mouth, by scaling and rotating image
- Use Rectangular Marquee Tool to delete the overlapping half of tiger's face
- Contract the tiger layer selection and delete that region from the lion's layer
- Crop composition to frame content; enable Delete Cropped Pixels
- Apply Auto-Blend Layers to merge tiger and lion faces seamlessly
- Save final compositions (Face Merge) for review and reuse





Professional Selection Workflows in Photoshop

- Advanced selection techniques include Quick Mask and Color Channels
- Providing greater precision in complex image scenarios
- Quick Mask Mode allowing brush-based selections without traditional selection tools
- Color Channel Method useful for detailed elements like hair strands
- Both techniques extend beyond the basic selections learned in foundational courses
- Quick Mask modifies selection areas visually using red overlays
- Color channels focus on contrast differences between subject and background
- Enabling refined masking and professional-quality edits





Using Quick Mask Mode for Selection

- Activating Quick Mask by pressing Q; layer is overlaid in red
- Painting over the target area using the Brush Tool (B) to define selection
- The red overlay indicates non-selected areas
- Pressing Q again to convert brush strokes into a selection (after painting)
- Useful in situations where selection tools fail on complex shapes
- Inverting and applying mask to isolate the object
- Allows freeform, intuitive selection; ideal for irregular subjects
- Inverted selection and masking finalize the isolation of the desired object
- Demonstration using the basketball image





Channel-Based Selection for Complex Images

- Suitable for intricate elements like hair strands with fine detail
- Demonstration using the Old Lady image
- Navigating to the Channels Panel (RGB, Red, Green, Blue)
- Identifying the channel with highest contrast between subject and background
- Duplicating the optimal channel and using Dodge Tool to brighten highlights
- Using Burn Tool to darken shadows and strengthen edge contrast
- Using Brush Tool to manually paint subject areas white for clarity
- Ctrl/Cmd + Click on channel thumbnail to load selection from luminance
- Returning to Layers and applying Layer Mask to isolate the refined selection





Refinement & Decontamination Techniques

- Using Select and Mask to refine the masked selection
- Activating Decontaminate Colors to remove color fringing from the background
- Applying Clipping Mask with a new layer above the masked layer
- Using Eyedropper Tool (I) to sample natural hair colors from the image
- Painting with *Brush Tool* (B) set to **Color** blending mode to neutralize background tint
- Adjusting brush size and hardness for subtle, accurate blending
- Repeating sampling and painting to match hair colors across all regions
- Testing final mask over different backgrounds to verify selection quality





- Practical application of the learned Photoshop techniques
- The Apply Image feature plays a central role in the effect
- Open the Smiling Woman portrait image
- Duplicate original layer (Ctrl/Cmd + J) before applying effects
- Use Image > Apply Image, select Blue Channel
- Set blend mode to Multiply for a strong base effect
- Apply Blend If adjustments to isolate tonal ranges
- Add shine with a soft brush on a new layer using sampled bright tones
- Change shine layer blend mode to Screen
- Refine shine with Blend If sliders for realism and subtlety





- Enhance eye highlights using the Dodge Tool set to Highlights
- Use Unsharp Mask via Filter > Sharpen > Unsharp Mask on duplicated eye layer for added clarity
- Apply layer masking to selectively reveal sharpened areas
- Brighten teeth and skin highlights subtly with the Dodge Tool
- Add natural lip color by painting on a new layer in Color blend mode
- Clean up lips with eraser and refine tone using Blend If
- Reduce opacity for realism and consistency with image tones





- Add final tonal correction using a Curves Adjustment Layer
- Apply subtle S-curve for contrast enhancement
- Review all applied layers and adjust opacity where necessary
- Ensure shine, eye glow, and lip color are balanced and consistent
- Compare before and after to ensure natural improvement
- Save file with clear naming convention ("smiling_woman_color_grading.psd")
- Exercise demonstrates layered application of learned tools
- Combines masking, blending, tone control, and retouching
- Foundation for more advanced retouching and color work





- Begin by opening the exercise folder and selecting the following files: Peeling wooden wall image, Photoshop Logo, Peeling paint texture
- Drag the images into Photoshop and scale them appropriately to fit the canvas
- Convert the Photoshop logo layer to a Smart Object for non-destructive editing
- Place the peeling wall texture above the logo layer
- Right-click the texture layer and select Create Clipping Mask to bind it to the logo
- Change the texture's blending mode to Hard Light for a realistic effect
- Access Blending Options on the texture layer and adjust Blend If sliders
- Hold Alt/Option and drag to separate the sliders for smoother transitions
- Aim to balance visibility of the logo with the realism of the texture overlay





- Repeat the Blend If adjustments for the logo layer, but only affect the Underlying Layer
- Avoid using This Layer sliders on the logo, as it reduces visibility excessively
- Add a Layer Mask to the logo for manual refinements of the edges
- Use a soft, irregular brush to paint black on the mask, removing parts of the logo edge
- This simulates natural peeling and breaks the perfect edge of the logo
- Optional: Experiment with different brush shapes to enhance the worn texture effect
- Save the final result using Ctrl/Cmd + S





Questions & Answers Homework

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