

UI Design for Batch Image Cropping Tool

Design Principles

Based on modern minimalist UI design principles, our batch image cropping tool will follow these key principles:

1. **Simplicity and Clarity:** Focus on essential elements and remove any unnecessary clutter.
2. **Whitespace:** Strategic use of whitespace to create a sense of openness and focus.
3. **Clear Typography:** Use readable fonts with proper hierarchy.
4. **Limited Color Palette:** A minimal color scheme with 2-3 primary colors and accent colors.
5. **Visual Hierarchy:** Clear distinction between primary and secondary elements.
6. **Responsive Design:** Ensure the interface works well on different screen sizes.

UI Components

1. Header Section

- Tool name/logo (top left)
- Action buttons (top right): "Upload Images", "Download All"

2. Main Workspace

- **Left Panel:** Settings and controls
 - Aspect ratio selection (predefined options + custom input)
 - Cropping method selection (content-aware, center, manual)
 - Batch processing options
- **Center Area:** Image preview grid
 - Thumbnail view of all uploaded images
 - Visual indication of crop boundaries
 - Selected image highlighted
- **Right Panel:** Selected image preview and adjustments

- Larger preview of selected image
- Manual adjustment controls for individual images
- Before/after toggle

3. Footer

- Processing status and progress
- Number of images selected/processed
- Credits/attribution

Color Scheme

- **Primary Background:** White (#FFFFFF) or Light Gray (#F8F8F8)
- **Secondary Background:** Light Blue (#F0F4F8)
- **Primary Text:** Dark Gray (#333333)
- **Secondary Text:** Medium Gray (#666666)
- **Accent Color:** Blue (#3B82F6)
- **Success Color:** Green (#10B981)
- **Error Color:** Red (#EF4444)

Typography

- **Headings:** Inter or SF Pro Display, Sans-serif
- **Body Text:** Inter or SF Pro Text, Sans-serif
- **Button Text:** Medium weight, slightly larger than body text

Interactive Elements

- **Buttons:** Subtle rounded corners, minimal shadows
- **Dropdowns:** Clean, with simple animations
- **Sliders:** Minimal design with clear handles
- **Toggles:** Simple, with clear on/off states
- **Hover States:** Subtle color changes or scaling effects

Layout Grid

- 12-column grid system for responsive design
- Consistent spacing using 8px increments (8px, 16px, 24px, 32px, etc.)

Responsive Behavior

- **Desktop:** Full three-panel layout
- **Tablet:** Collapsible panels, focus on preview area
- **Mobile:** Single panel view with bottom sheet for controls

User Flow Wireframes

1. Initial State:

2. Empty upload area with drag-and-drop zone
3. Aspect ratio and cropping method options visible but inactive

4. After Upload:

5. Grid view of uploaded images
6. Default cropping applied based on selected settings
7. Preview of first image in selection panel

8. Editing State:

9. Selected image highlighted in grid
10. Adjustment controls active in right panel
11. Live preview of changes

12. Processing State:

13. Progress indicator showing batch processing status
14. Preview of processed images updating in real-time

15. Download State:

16. All images processed
17. Download options presented (individual or ZIP)
18. Option to start over with new batch