

UI/UX Design Cheatsheet

A comprehensive cheatsheet covering essential UI/UX design principles, processes, and best practices. This guide provides a quick reference for designers to create user-friendly and engaging digital experiences.



Core Principles

Visibility of system status: Ke through appropriate feedback	ep users informed about what is going on, s within reasonable time.
Match between system and t words, phrases and concepts	he real world: Speak the users' language, using familiar to the user.
	fer users an 'emergency exit' to leave ng to go through an extended dialogue.
Consistency and standards: F standards.	ollow platform conventions and industry
	ror-prone conditions or check for them and tion option before they commit to the action.
Recognition rather than recal elements, actions, and options	I: Minimize the user's memory load by making s visible.
• •	se: Allow experienced users to tailor frequent n by the novice user – may often speed up the
Aesthetic and minimalist desi which is irrelevant or rarely ne	gn: Dialogues should not contain information eded.
	se, and recover from errors: Error messages anguage (no codes), precisely indicate the uggest a solution.

Help and documentation: Provide help that can be easily searched, is focused on the user's task, list concrete steps to be carried out, and is not too large.

The UX Design Process

Typical UX Design Process Steps

1. Research: Understand user needs, behaviors, and goals through methods like user interviews, surveys, and competitive analysis.

2. Analysis: Analyze research data to identify patterns, insights, and opportunities for design improvements.

3. Design: Create wireframes, prototypes, and user flows to visualize the user experience and test different design solutions.

4. Testing: Evaluate design solutions with real users to identify usability issues and gather feedback for iterative improvements.

5. Implementation: Collaborate with developers to implement the design and ensure it meets user needs and business goals.

6. Evaluation: Continuously monitor and evaluate the user experience to identify areas for further optimization and improvement.

Common UX Deliverables

User Personas	Representations of target users, based on research.
User Flows	Diagrams showing the steps a user takes to complete a task.
Wireframes	Low-fidelity prototypes outlining the structure and layout of a page.
Prototypes	Interactive models used for testing and validation.
Usability Testing Reports	Documents summarizing the findings of usability tests.
Style Guides	Documents outlining the visual and interaction design standards.

Research Methods

User Interviews	One-on-one conversations to gather in-depth insights.
Surveys	Quantitative data collection from a large audience.
Usability Testing	Observing users interacting with a product or prototype.
A/B Testing	Comparing two versions of a design to see which performs better.
Card Sorting	Users organize topics into categories to inform information architecture.

Key UX Principles

Learnability	How easy is it for users to accomplish basic tasks the first time they encounter the design?
Efficiency	Once users have learned the design, how quickly can they perform tasks?
Memorability	When users return to the design after a period of not using it, how easily can they reestablish proficiency?
Errors	How many errors do users make, how severe are these errors, and how easily can they recover from the errors?
Satisfaction	How pleasant is it to use the design?

UI Design Principles

Visual Hierarchy

Arrange elements to guide the user's eye in order of importance.

- Size: Larger elements attract more attention. .
- Color: Use color to highlight important elements.
- Contrast: High contrast elements stand out.
- Spacing: Use spacing to group related elements.

Gestalt	Principles	;
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Proximity Elements that are close together are perceived as a group. Similarity Elements that share visual characteristics are seen as related. Closure The mind fills in gaps to create complete figures. Continuity Elements arranged on a line or curve are perceived as related. Figure/Ground The eye differentiates an object from its surrounding area.

Accessibility

Layout Patterns

WCAG (Web Content Accessibility Guidelines):

- Perceivable: Information and UI components must be presentable to users in ways they can perceive.
- **Operable:** UI components and navigation must be operable.
- Understandable: Information and the operation of the UI must be understandable.
- Robust: Content must be robust enough that it can be interpreted reliably by a wide variety of user agents, including assistive technologies.

Color Contrast: Ensure sufficient contrast between text and background (minimum 4.5:1 for normal text, 3:1 for large text).

Keyboard Navigation: Make sure all interactive elements can be accessed and operated using a keyboard.

Alternative Text: Provide descriptive alternative text for images.

UI Design Patterns

Navigation Patterns

Input & Feedback Patterns

Breadcrumbs	Show the user's location in the site hierarchy.	Autocomplete	Suggest options as the user types.	Cards	Content containers that group related information.
Tabs	Organize content into distinct sections.	Progress Indicators	Show the status of a process.	Lists	Display structured data in a vertical format.
Mega Menus	Large, multi-level menus for complex navigation.	Tooltips	Provide contextual help on hover.	Grids	Arrange content in a two- dimensional structure.
Pagination	Divide content into discrete pages.	Confirmation Messages	Confirm successful actions or warn about potential errors.	Full-screen Takeovers	Overlay the entire screen with a modal or notification.