

## Shneiderman's 8 Golden Rules of Interface Design

- Consistency is key.
- Shortcuts for pros.
- Good Feedback, fast.
- Prevent errors: design so mistakes don't happen. Delete > confirmation popups > prevents screwing up
- Easy to reverse actions: people mess up. make it easy to undo
- User in control
- Minimal Memory Load
- Efficient & Aesthetic

## Jakob Nielsen's 10 Usability Heuristics

- Visibility of System Status: Keep users in loop. Loading? Show progress; Processing? show spinner
  - Match Between System & Real World: ditch tech jargon; Speak Human
  - User Control & freedom: give escape routes. undo, redo, back buttons
  - Consistency & Standards : Don't Reinvent UI Patterns.
  - Error Prevention: Best way to fix errors is to simply not let them happen
  - Recognition Over Recall
  - Flexibility & Efficiency
  - Aesthetic & Minimal Design
  - Help users Recognize, Diagnose & Recover from Errors
  - Help & Documentation
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## Shneiderman & Nielsen's Usability Rules 🔥

### Aesthetic & Minimalism

- Shneiderman: Efficient & Aesthetic – Keep it clean, simple, and functional.
- Nielsen: Aesthetic & Minimalist Design – No clutter, every element should serve a purpose.

### User Control & Freedom

- Shneiderman: User in Control – Let users decide what they want to do, don't force them.
- Nielsen: User Control & Freedom – Undo, redo, and exit options should always be there.

### Easy Recovery & Error Handling

- Shneiderman: Easy to Reverse Actions – Undo should be an option at all times.
- Nielsen: Help Users Recognize, Diagnose, & Recover from Errors – Clear error messages, easy fixes.

### Error Prevention

- Shneiderman: Prevent Errors Like a Pro – Design in a way that avoids mistakes.
- Nielsen: Error Prevention – Best way to fix errors? Make sure they never happen.

## Reduce Cognitive Load

- Shneiderman: Minimal Memory Load – Users shouldn't have to remember things, UI should guide them.
- Nielsen: Recognition Over Recall – Show options instead of making users remember.

## Speed & Efficiency

- Shneiderman: Shortcuts for Pros – Power users need hotkeys and efficiency hacks.
- Nielsen: Flexibility & Efficiency – Adapt for both newbies and pros (shortcuts, automation).

## Clear Feedback & System Status

- Shneiderman: Good Feedback, Fast – Users should see instant responses to their actions.
- Nielsen: Visibility of System Status – Keep users informed with progress indicators, load spinners, etc.

## Consistency

- Shneiderman: Consistency is Key – UI elements should be predictable and follow standard conventions.
  - Nielsen: Consistency & Standards – Don't make users guess, follow existing design patterns.
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## Unique to Each

### Shneiderman Only

- N/A (Everything maps to Nielsen's rules)

### Nielsen Only

- Match Between System & Real World – Speak human, not machine. Use familiar icons & language.
  - Help & Documentation – If users need help, make it easy to find (searchable docs, FAQs, tooltips).
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## Usability Review of Learning Websites

### W3Schools

Good:

- Visibility of System Status – Instant feedback on button clicks, live code editor shows changes immediately.
- Recognition Over Recall – Code examples are visible no need to memorize syntax ?
- User Control & Freedom – The "Try it Yourself" editor allows unlimited experimentation.
- Minimal Memory Load – Step-by-step explanations and examples for concepts.

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Result Size: 945 x 888

Get your own PHP server

```
<!DOCTYPE html>
<html>
<body>

<?php
$txt = "PHP";
echo "I love $txt!";
?>
</body>
</html>
```

PHP Parse error: syntax error, unexpected end of file in /home/j0uat4/prog.php on line 12

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Bad:

- Aesthetic & Minimalist Design – The site is functional, but visually outdated and cluttered.
- Flexibility & Efficiency – No real shortcuts or advanced tools for power users.
- Error Prevention – The live editor doesn't warn about common mistakes; users just see errors.

## MST

Good:

- User Control & Freedom – They Have over 4000 interactive videos; user can pick; pause, rewind, playback ...
- Good Feedback, Fast – Interactive quizzes give instant results and diagnostics.
- Match Between System & Real World – The platform uses straightforward language and familiar educational structures, ensuring content is relatable and easy to understand.

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Search Channels or Users

Channels

New

4CS001\_Introductory\_Progr...

4CS015\_Fundamentals\_of\_...

4CS017\_Internet\_Software\_...

4CS020\_Introduction\_to\_Ga...

4CS021\_Introduction\_to\_Obj...

Show All Channels

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You do not have any direct messages. To direct message, please click on the "New" button above.

4CS001\_Introductory\_Programming\_And\_Pro...

Admin has added SACHIN KUMAR SAH to this channel.

Admin has added shrestha swayam to this channel.

Admin has added unknown12 to this channel.

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Search Testpapers

Select a Subject

Reset Filters

For the subjects that you are subscribed to, we do not have any testpaper resources yet. You will be able to generate testpapers here when they become available.

Human Computer Interaction

Subjects

Testpapers

No Results Found. Please try different search word.

View as:

Week

Month

- Shortcuts for Pros – No real way to speed up navigation or customize the learning experience.
  - Search Doesn't Work
- Error Prevention – Some questions don't guide users on how to fix mistakes.
- Aesthetic & Minimalist Design – The site is functional, but visually outdated and cluttered. Random Notifications.
  - Unusable sections