

Introduction to Modern UI Elements

CSE 4402: Visual Programming Lab

Why should you focus on UI design?

Twitter (2007, October)

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 **sansumbrella** @[goto10](#) really excited about this future forest idea, need to spread it. Also, thanks for the tweet. [less than 5 seconds ago](#) from [twitterific in reply to goto10](#)

 **angelvsqz** Este mensaje es para todos los latinos...los quiero! Estamos unidos! [less than 5 seconds ago](#) from [txt](#)

 **evo_terra** Why would you make a drainage tunnel that goes under a river? I think they call that a plot hole. [less than 5 seconds ago](#) from [twitterific](#)

 **sufw** Good to see lots of SME interest in virtualisation! Virtualisation ftw! [less than 5 seconds ago](#) from [txt](#)

 **riozebratubo** Sea and Cake, finally. [less than 5 seconds ago](#) from [web](#)

 **matsui_takashi** 塚高0 - 2横浜（2回）。早くも追う展開に。 [less than 10 seconds ago](#) from [web](#)

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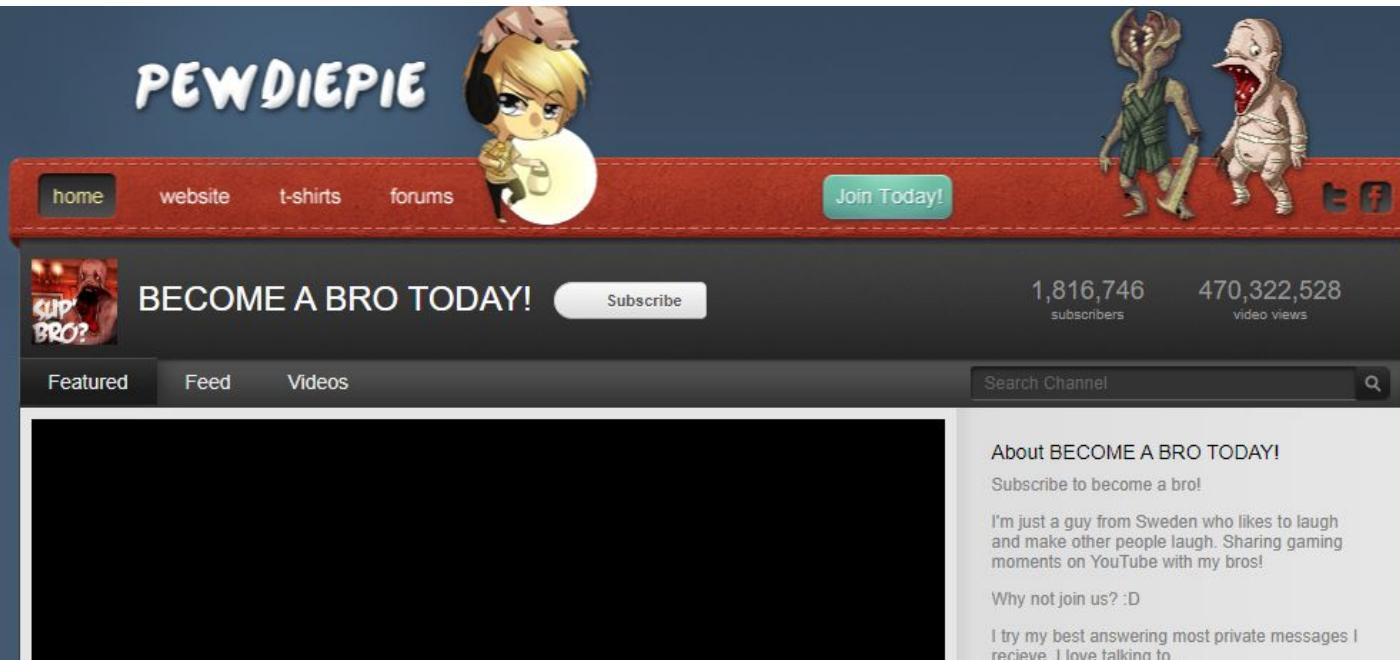
 [WIREDScience](#)

 [New Media Fyno](#)

Instagram (2013, December)



YouTube (2013, July)



GitHub (2009, June)

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GitHub is for Public Open Source and Private Business Code

Search public git repositories

lloyd

yajl

17 June 2009

yajl is not just another JSON parsing library. It's a wicked fast one that's portable, quite memory efficient, and even supports stream parsing. YAJL also has some pretty slick features on its own, such as comments.

Recently Updated Repositories

 elan / **plex** perigrin / **xml-toolkit** bobmcwhirter / **jboss-messaging**

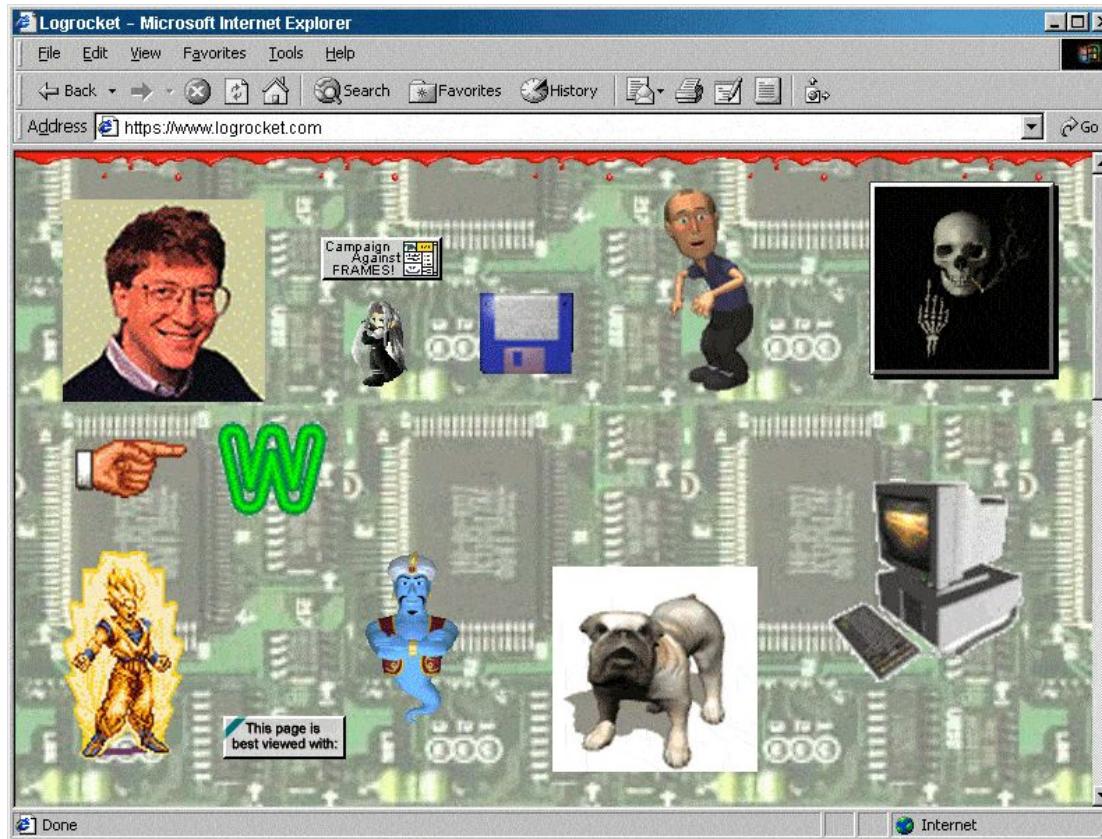
Join a growing selection of companies that have adopted GitHub as their code host of choice.

**TechCrunch**

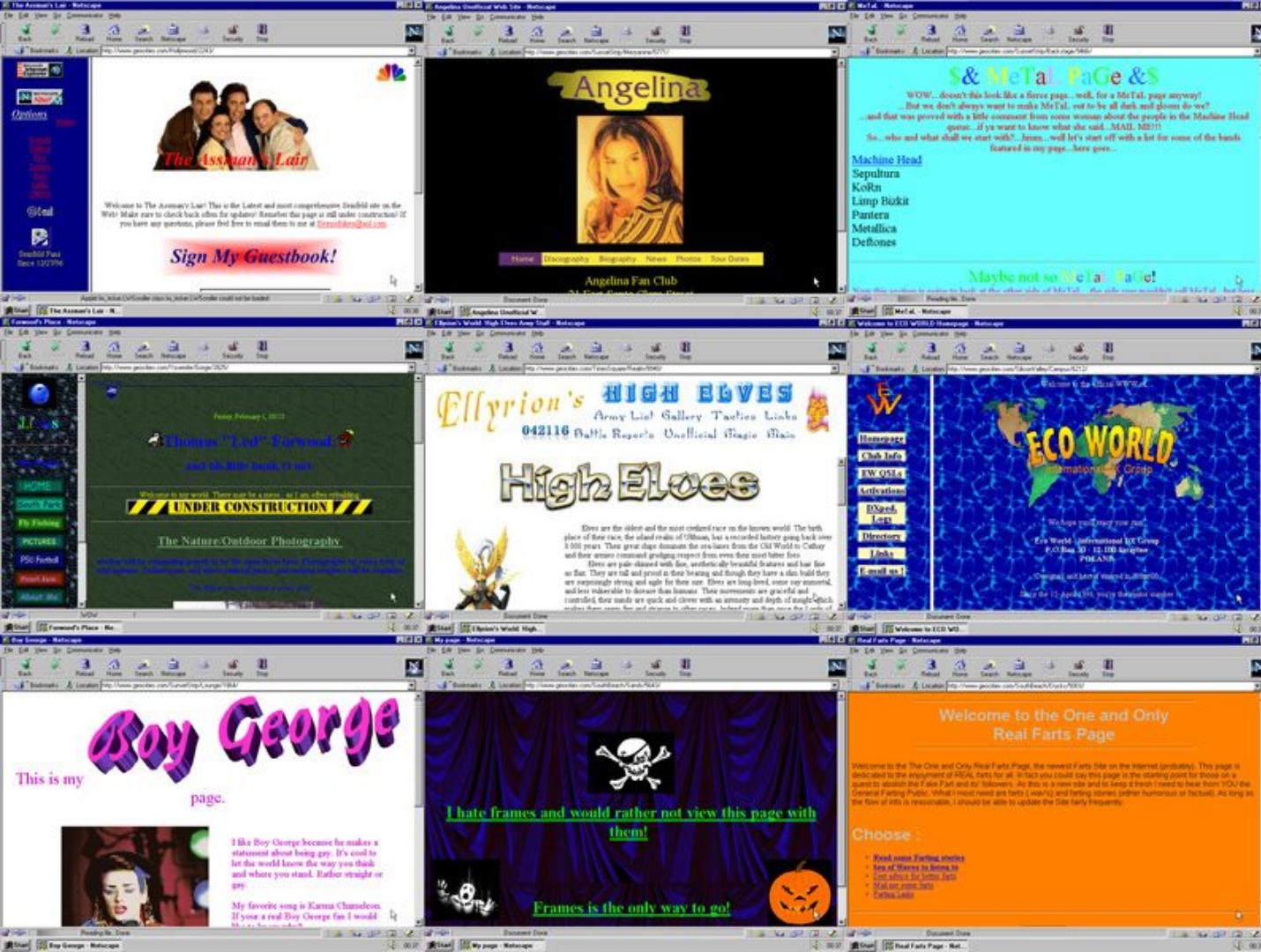
GeoCities Websites (90s and early 2000s)



GeoCities Websites (90s and early 2000s)

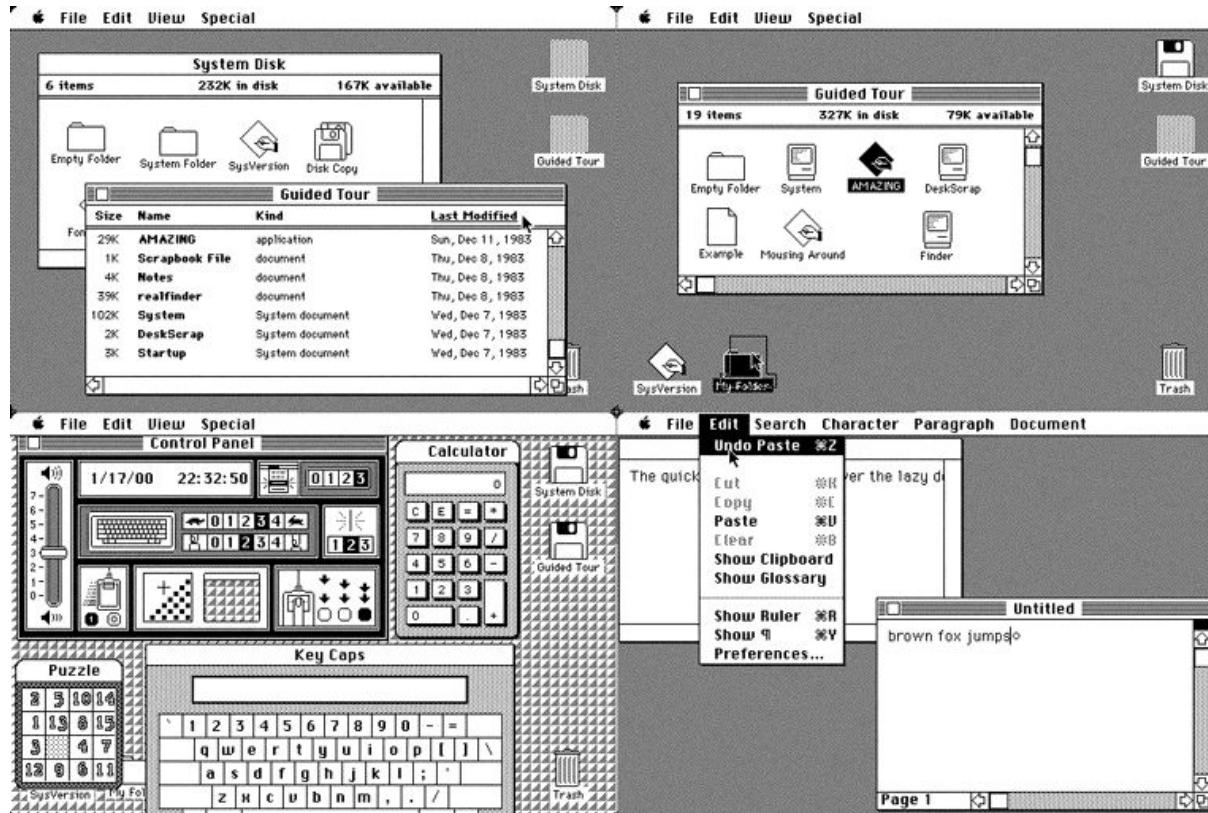


Why did we stop making UIs like this?



80s

UI design changed with time

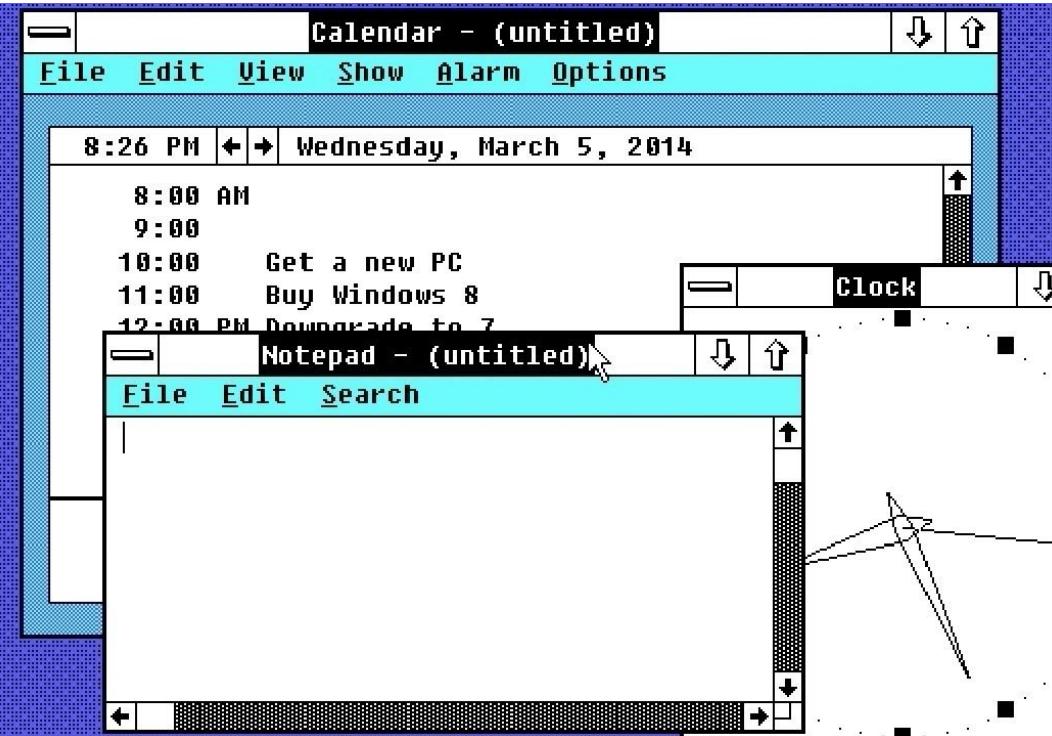


Apple
released
their Mac in
1984

80s

UI design changed with time

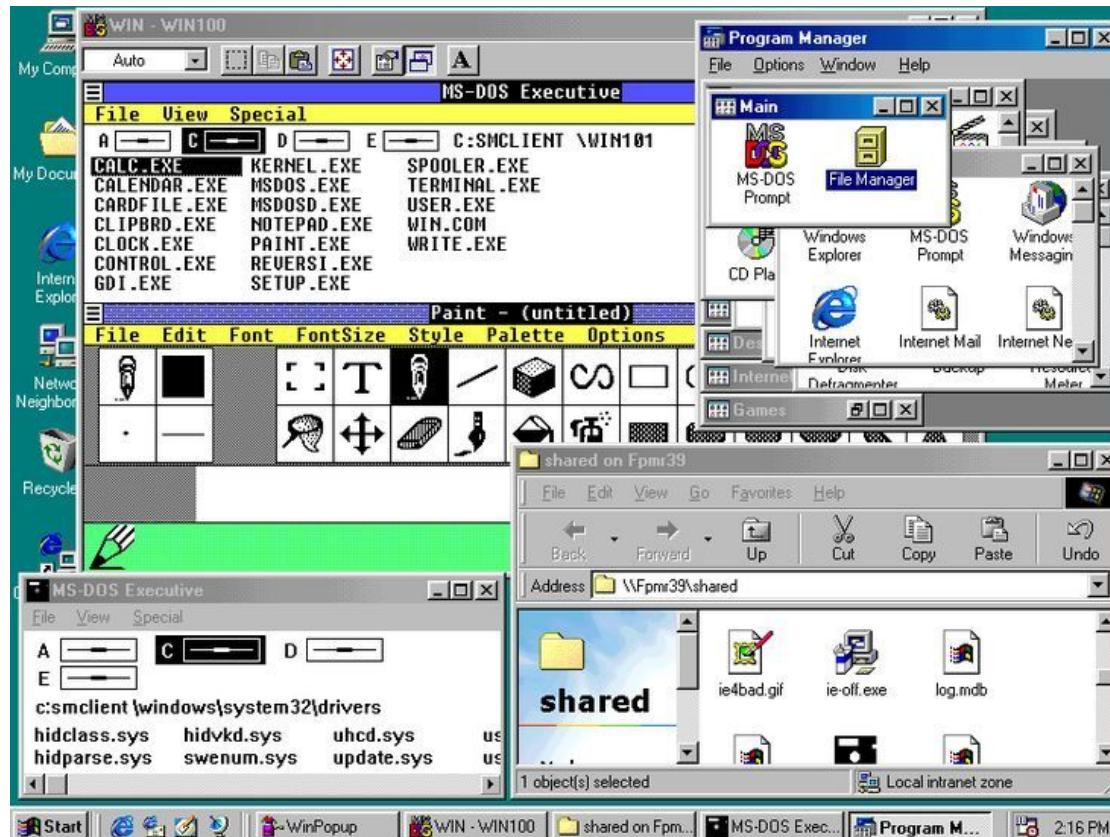
WINDOWS 2.0



In a similar time period,
Microsoft released
Windows
2.0

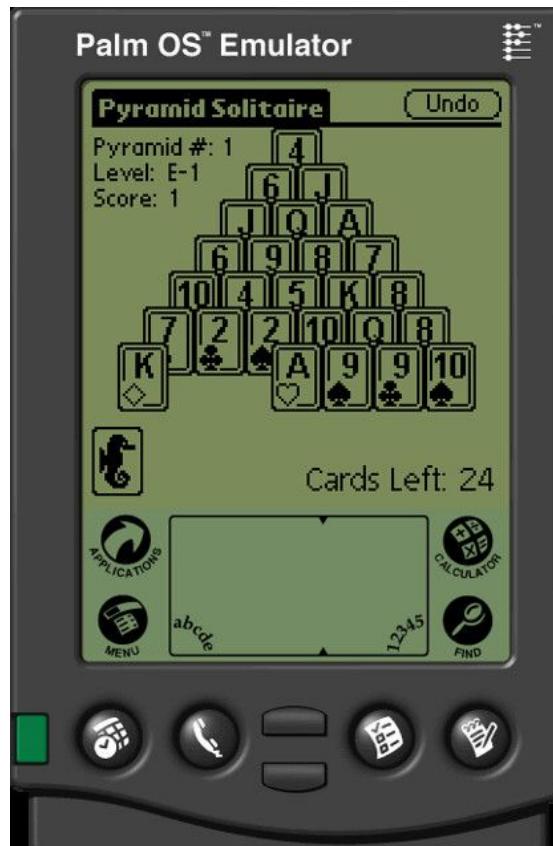
UI design changed with time

90s



Microsoft
builds upon
their earlier
designs

UI design changed with time



90s

This decade saw a rise in handheld devices

UI design changed with time

00s

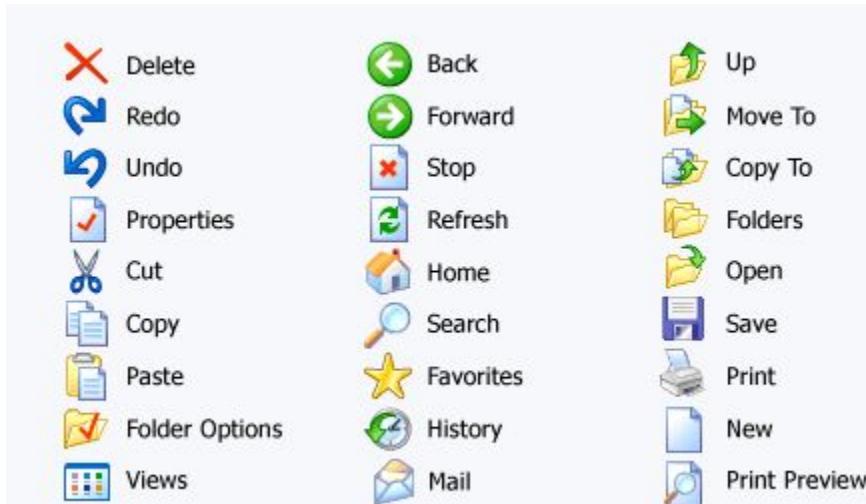
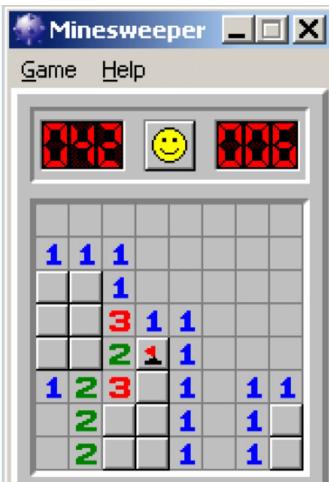


More
defined
styles
focused on
user
experience

UI design changed with time

00s

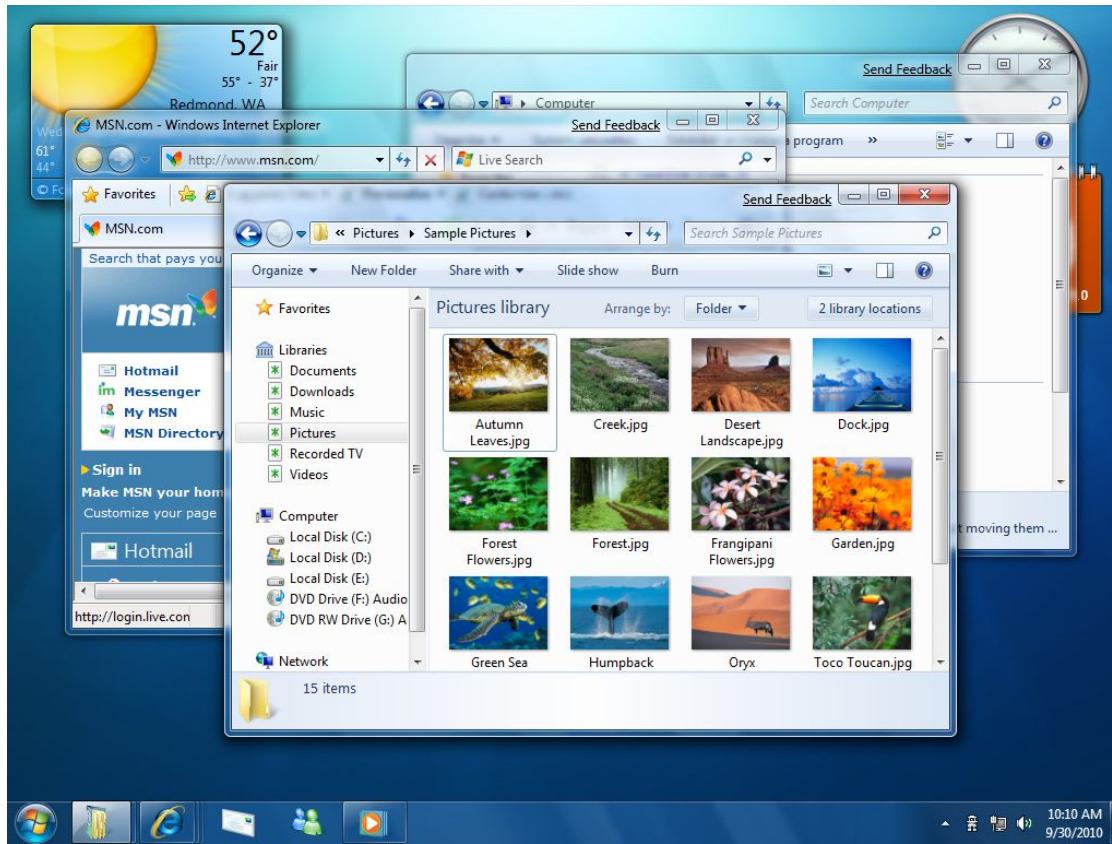
R153 G102 B0	R51 G51 B102	R153 G153 B255
R204 B153 B0	R0 G51 B153	R102 G102 B204
R255 G204 B0	R0 G102 B204	R153 G153 B204
R255 G255 B80	R0 G131 B215	R102 G102 B153
R255 G255 B153	R0 G153 B255	R0 G102 B0
R255 G219 B157	R62 G154 B222	R0 G153 B0
R255 G204 B102	R153 G204 B255	R102 G204 B51
R255 G153 B51	R180 G226 B255	R153 G255 B102
R255 G121 B75	R222 G255 B255	R204 G255 B204
R255 G51 B0	R255 G204 B255	
R153 G0 B0	R204 G204 B255	



More defined styles focused on user experience

UI design changed with time

00s



It soon
culminated
into a
cleaner look

UI design changed with time

00s



It soon
culminated
into a
cleaner look

UI design changed with time

10s



UI design changed with time

10s

The figure displays three versions of a mobile application interface for a smart home security system, illustrating the evolution of UI design over two decades.

- 1990s (Left):** A dark-themed screen featuring a large "Get started" button. It shows two physical smart locks and a small icon of a lock.
- 2000s (Middle):** A light-themed screen with a "Push-Pull" device highlighted. It includes a "Read more" button and a "Smart Lock" section with a "You can set an access code" message.
- 2010s (Right):** A modern, minimalist white-themed screen. It features a "Push-Pull" device, a "Smart Lock" section, and a "Variability of settings" section. It also includes a "30 days of service for free" offer and a "Get started" button.

UI Evolution: The UI has shifted from a dark, monolithic look in the 1990s to a clean, modern aesthetic in the 2010s. The 2000s version is cluttered with icons and text, while the 2010s version is sleek and focused on key features and user engagement.

Modern UI design aims for minimalism

UI design changed with time

10s

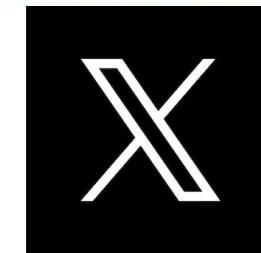


NETFLIX

Google



Premier
League



Alphabet

Microsoft

amazon



TESLA



Meta

Tencent



IBM



Skeuomorphism vs. Flat

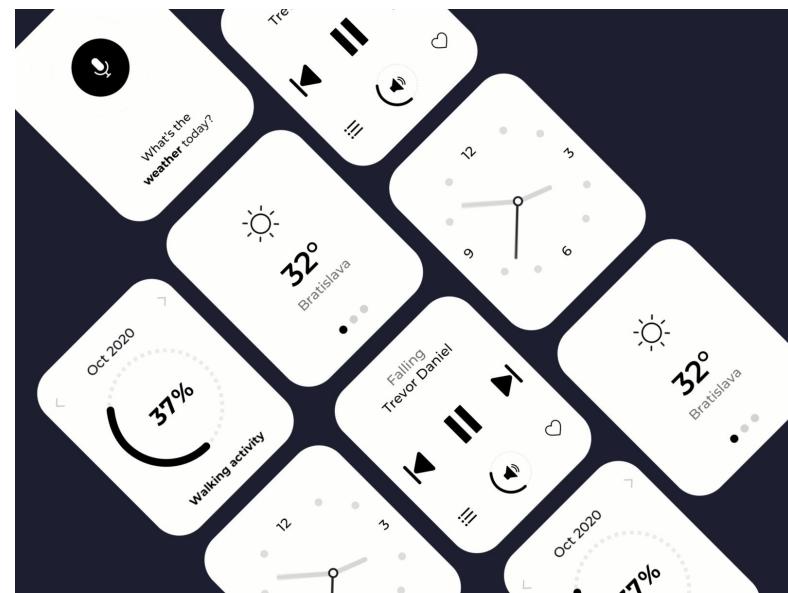
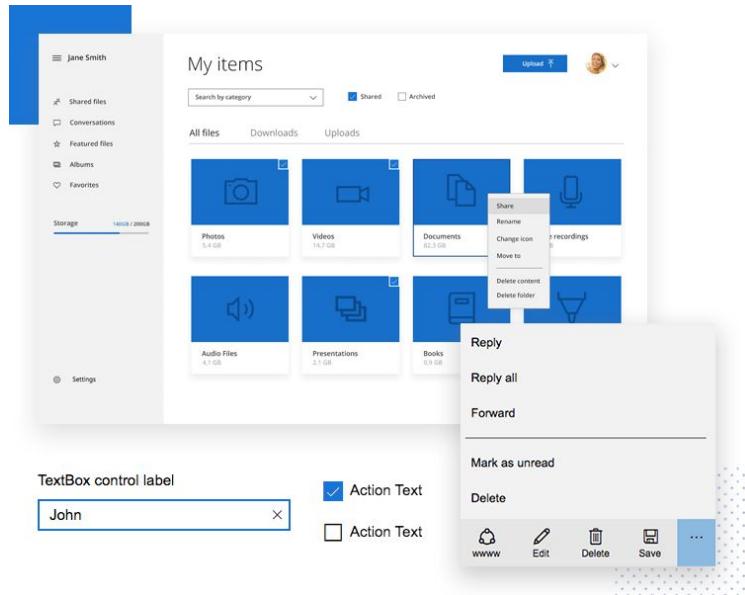
Skeuomorphism

Skeuomorphism is a term most often used in graphical user interface design to describe interface objects that mimic their real-world counterparts in how they appear and/or how the user can interact with them.



Flat design

Flat design is a user interface design style that uses simple, two-dimensional elements and bright colors. By reducing the amount of visual noise, flat design provides users with a streamlined and more optimal user experience.



Modern UI trends

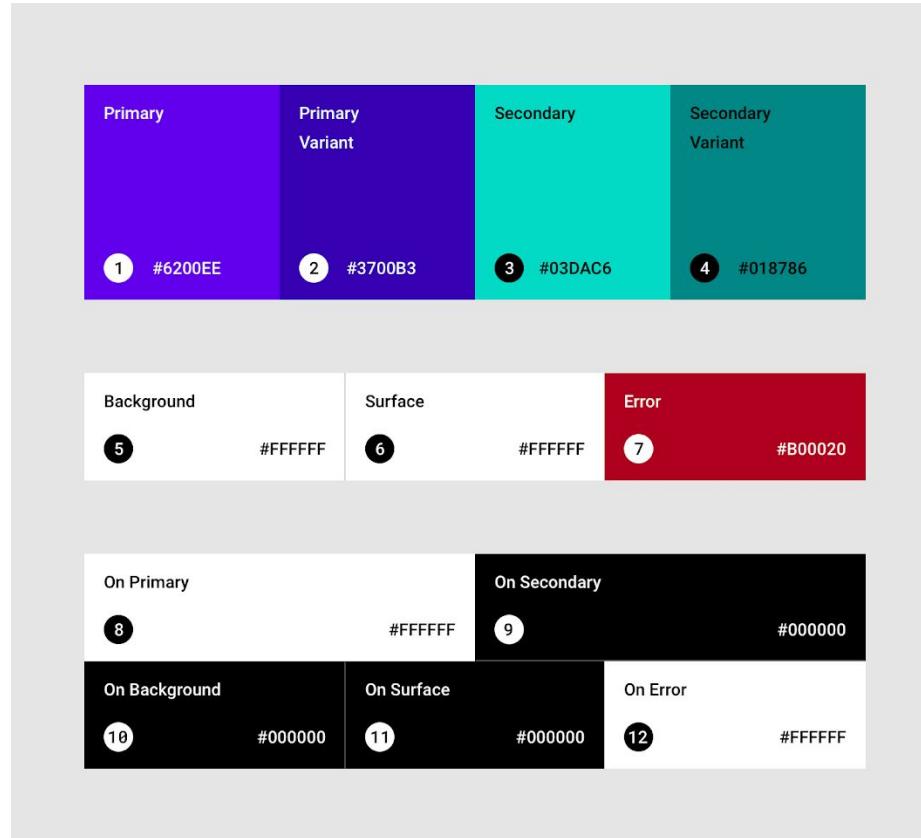
Modern UI elements



Typography

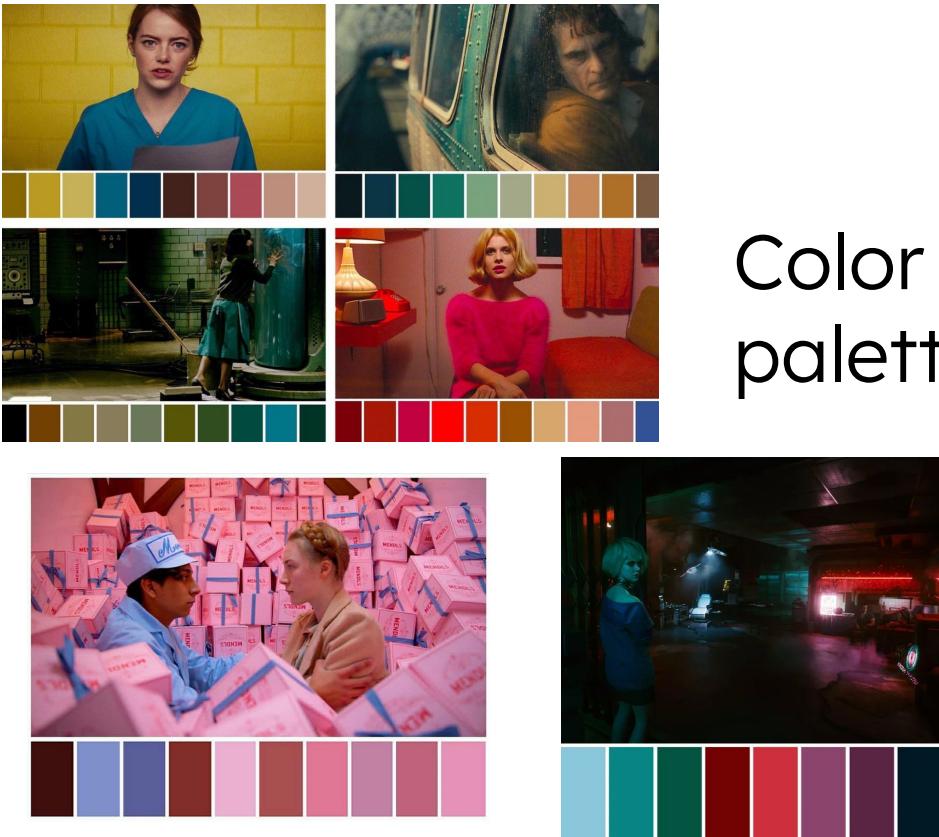
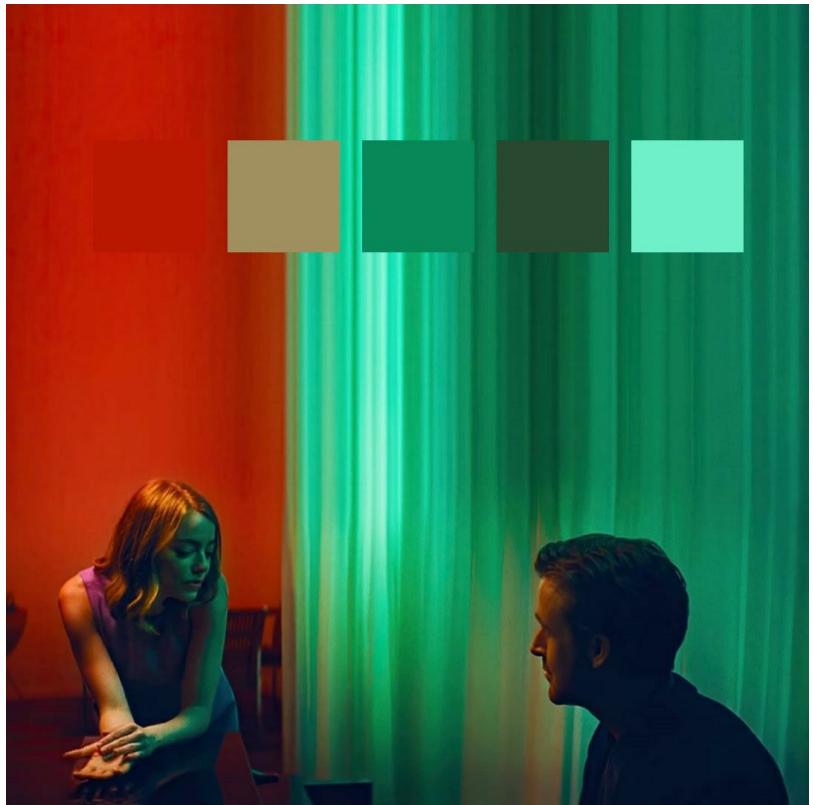
Modern UI elements

Color theory is a concept used in visual arts and design that explains how colors interact with each other and how they can be combined to create certain feelings, moods, and reactions.



Color palettes

Modern UI elements



Color
palettes

Modern UI elements

This is called the
“Corporate Memphis” Style



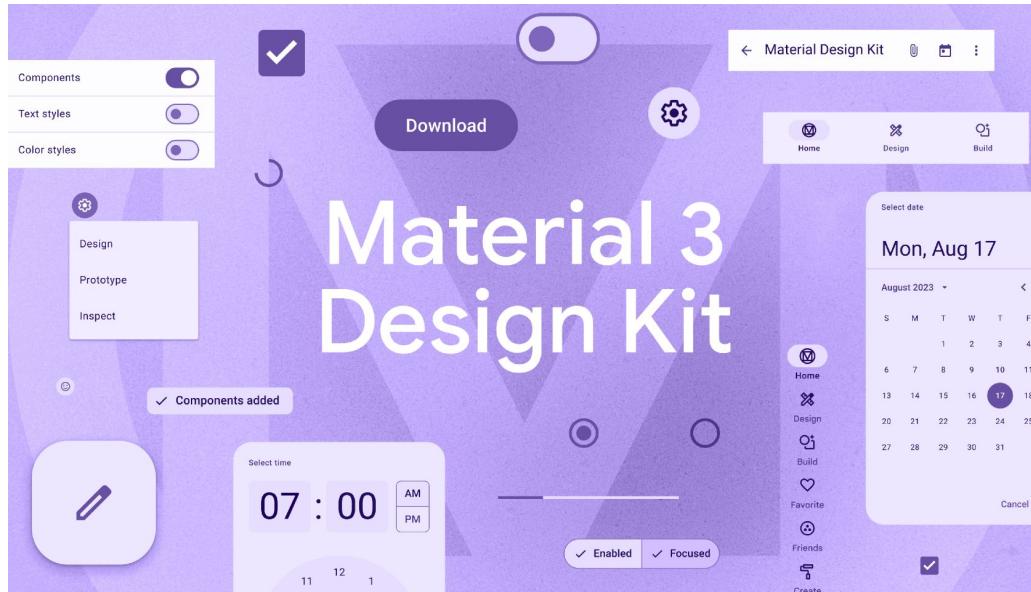
2D
Illustrations



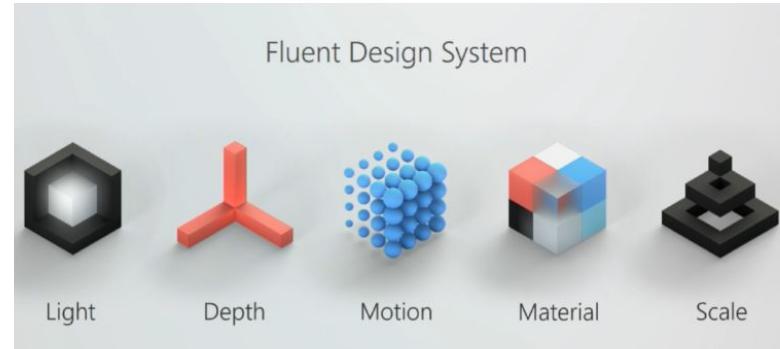
Modern UI elements

This has spawned many offshoots like:

Material Design, iOS HIG, Fluent

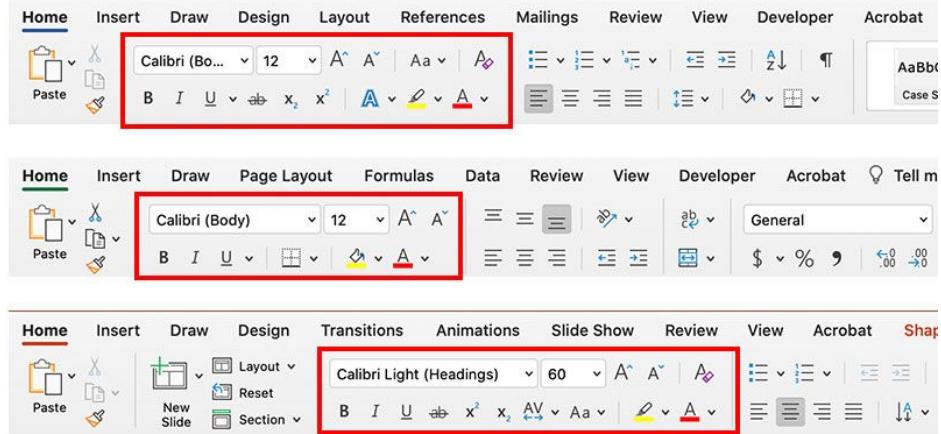


Practical Design



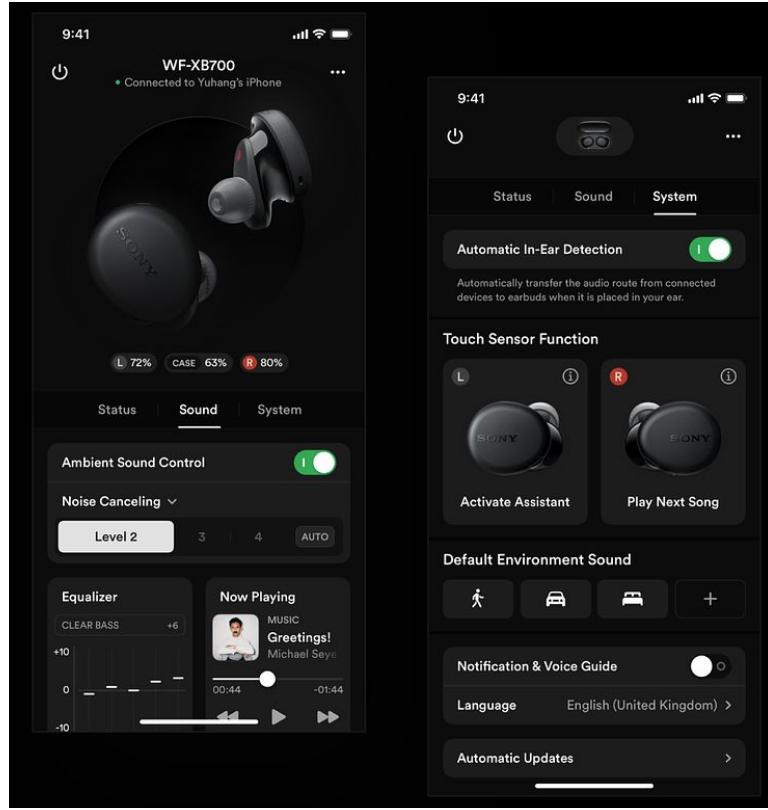
Modern UI elements

According to [Jakob's Law](#), users expect your product to work the same across the board and align with industry standards and competitor websites. When navigating your interface, they shouldn't have any surprises or unfamiliar elements.



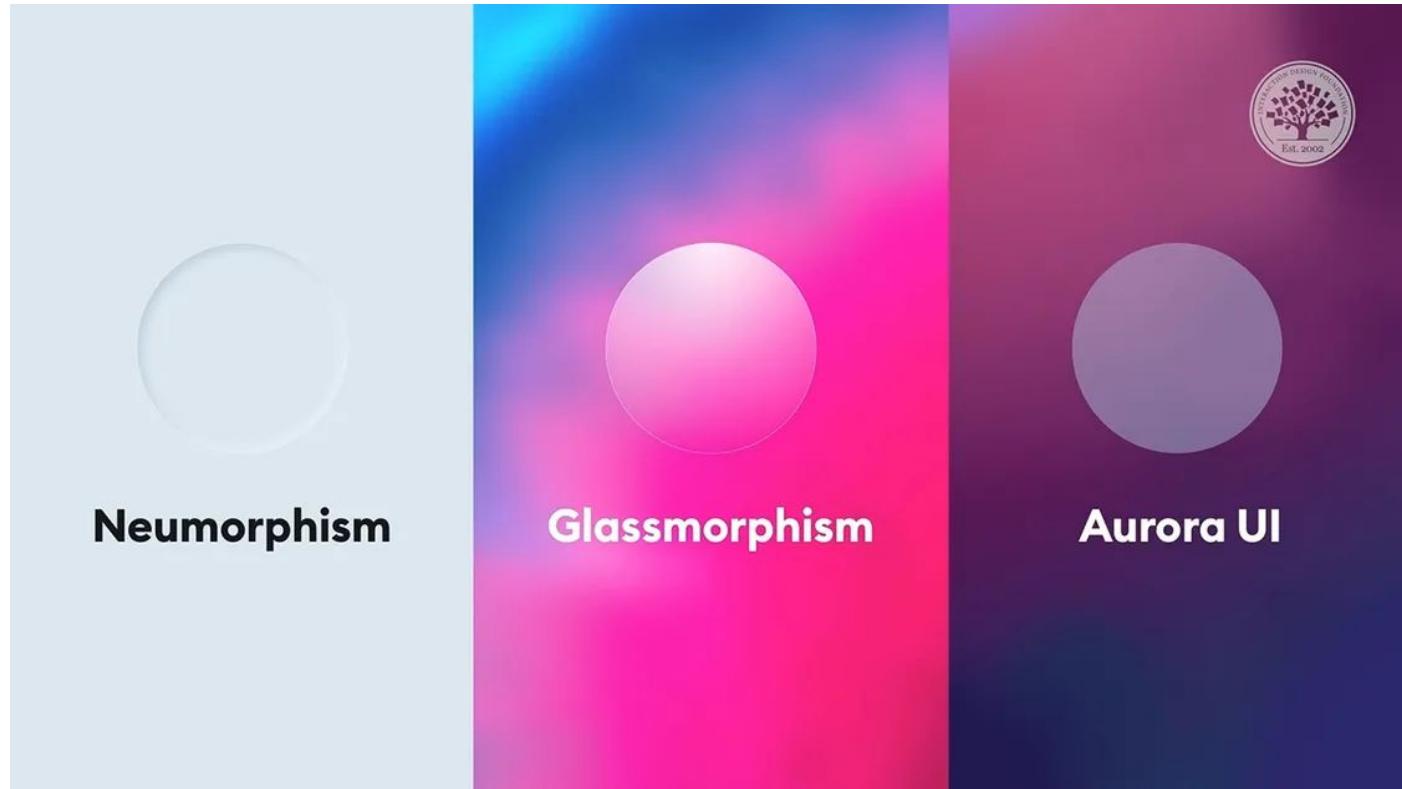
Be
consistent

Modern UI elements



Dark themes

Modern UI elements



Thank You

Additional Resources

- [40 years of icons: The evolution of the modern computer interface](#)
- [Windows XP style guide](#)
- [Skeuomorphism in Interface Designs](#)
- [What Apple learned from skeuomorphism and why it still matters](#)
- [Blue people and long limbs: How one illustration style took over the corporate world](#)
- [What is Color Theory?](#)
- [Apple's Human Interface Guidelines](#)
- [Material Design Guidelines](#)
- [Fluent Design Guidelines](#)