



About me

- 👉 Based in London, UK,
- 👉 Technical Architect,
- 👉 Microsoft MVP,
- 👉 Gamer, drummer & nerd



Kristine Kotodzyska

Plan for today



- | | |
|------------------------|---------------------------------|
| 9:30am-10.30am | Intro to UI/UX |
| 10:30am-10.50am | Interactive UI/UX exercise! |
| 10:50am-11:05am | Figma crash course |
| 11:05am-11:35am | Accessibility |
| 11:35am-11:55am | Coffee break |
| 11:55am-12:35pm | Intro to HTML & CSS |
| 12:35pm-12:55pm | Interactive HTML & CSS exercise |
| 12:55pm-1:30pm | Intro to SVG's and animations |
| 1:30pm-1:50pm | Interactive SVG exercise |
| 1:50pm-2.20pm | Lunch break! |
| 2:20pm-4:35pm | Hands on app makeover! |
| 4:35pm-5.00pm | Wrap up, Q&A and feedback |

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UI Design

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What is UI design?

**designing visual interfaces for machines
and software that are memorable and
meaningful**



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What is UI design?

‘Moving rectangles for a living’



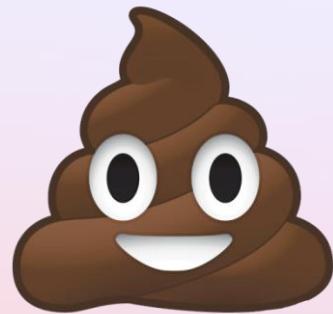
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Design principles



kristine kohodzegyse

Design principles



C
ontrast

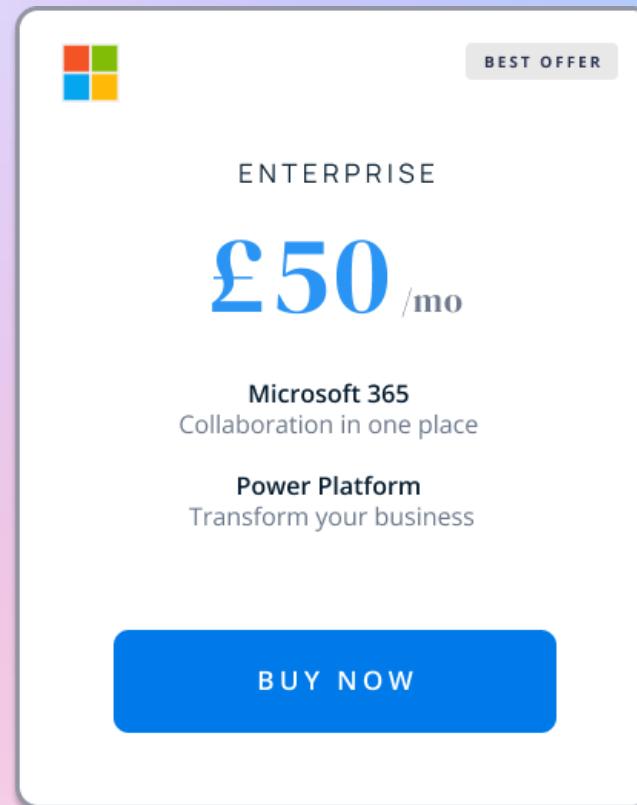
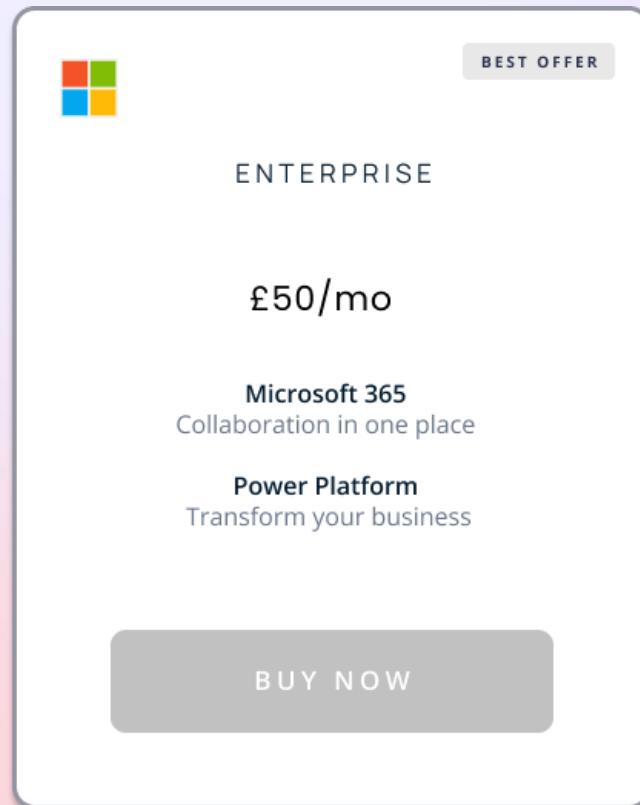
R
epetition

A
lignment

P
roximity

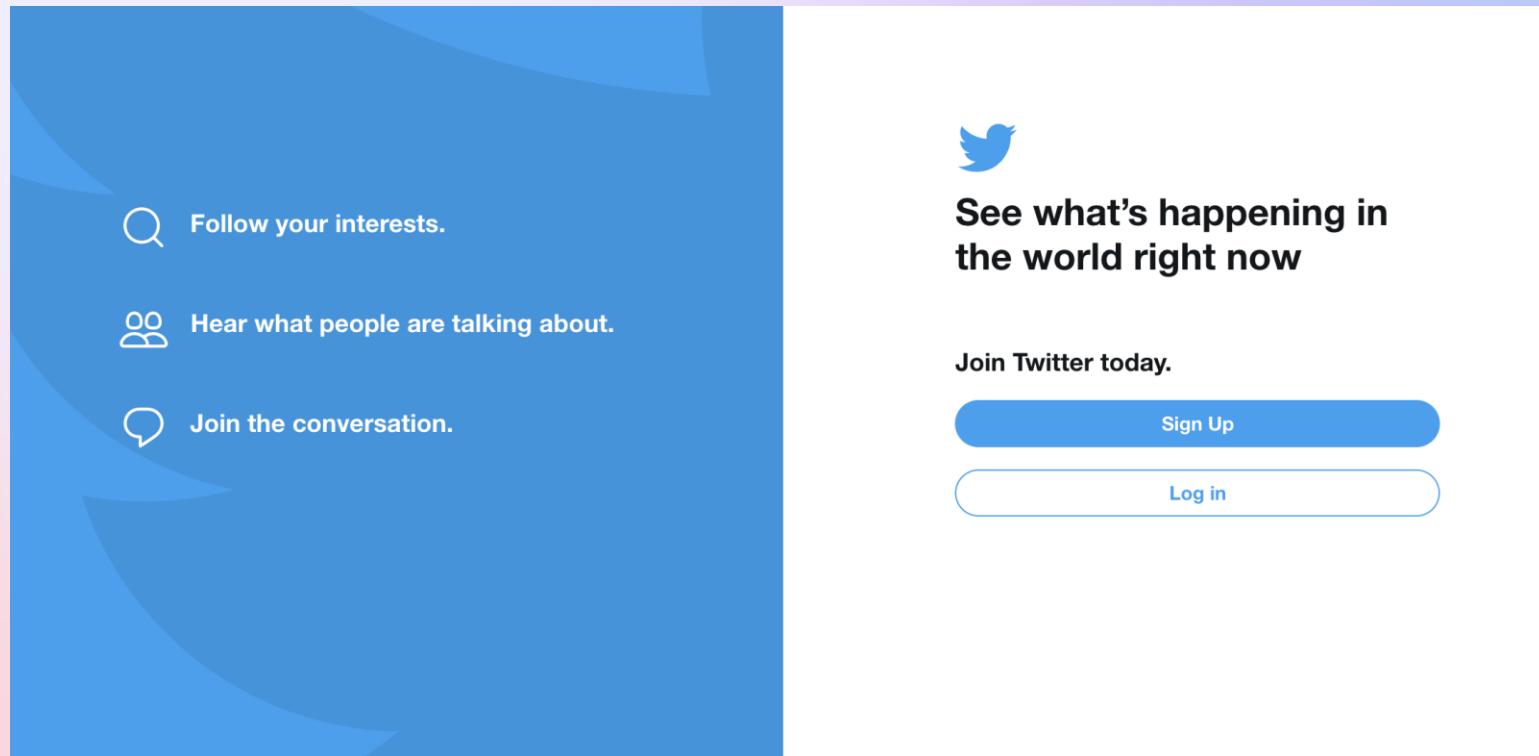
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C - using contrast



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C – using contrast



The image shows a screenshot of the Twitter homepage. The left side of the page has a blue background with three white icons and text: a magnifying glass for 'Follow your interests.', two people for 'Hear what people are talking about.', and a speech bubble for 'Join the conversation.'. The right side has a white background with the Twitter logo (a blue bird icon), the tagline 'See what's happening in the world right now', a 'Join Twitter today.' button, and 'Sign Up' and 'Log in' buttons.

Follow your interests.

Hear what people are talking about.

Join the conversation.

See what's happening in the world right now

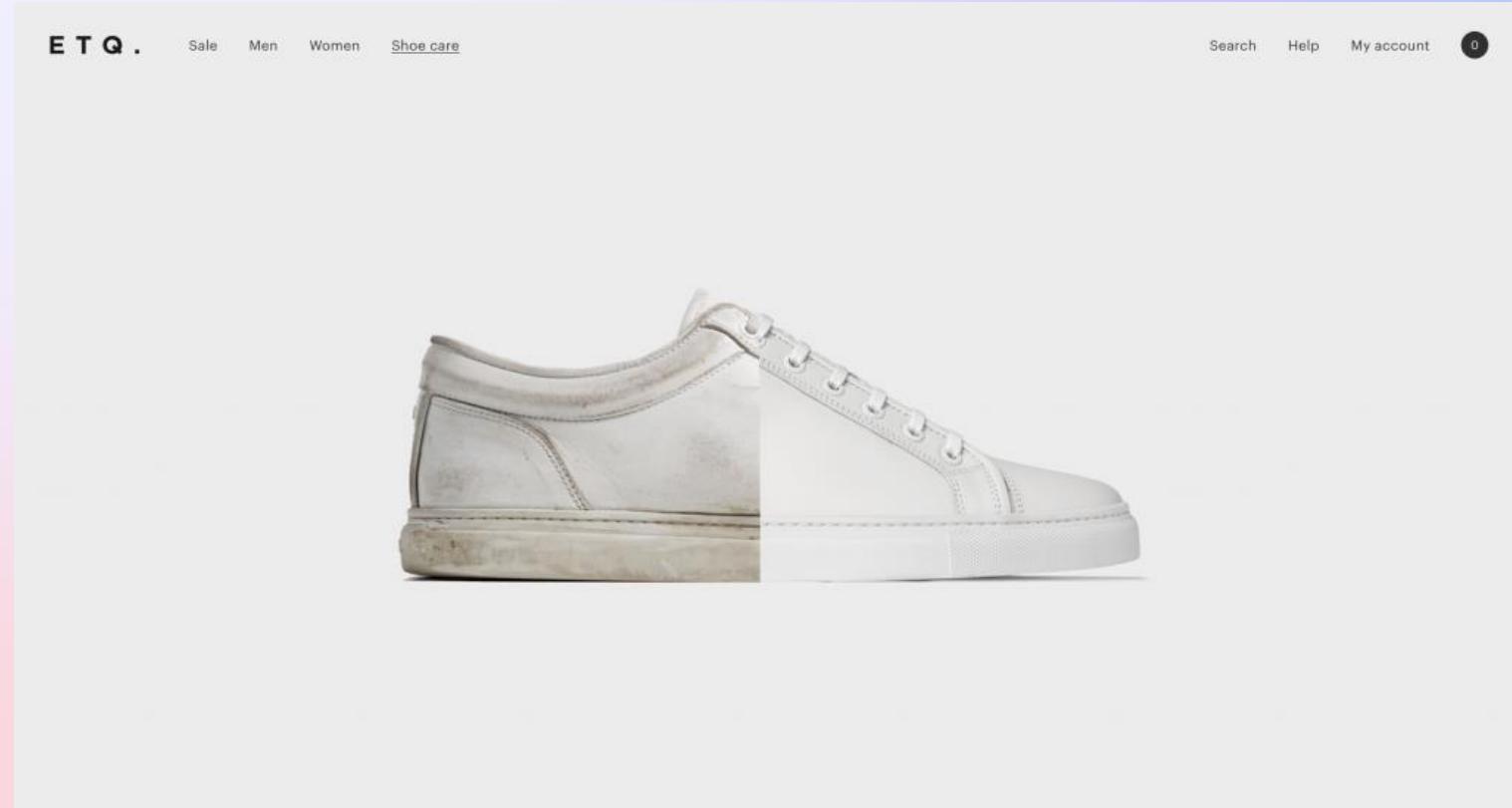
Join Twitter today.

Sign Up

Log in

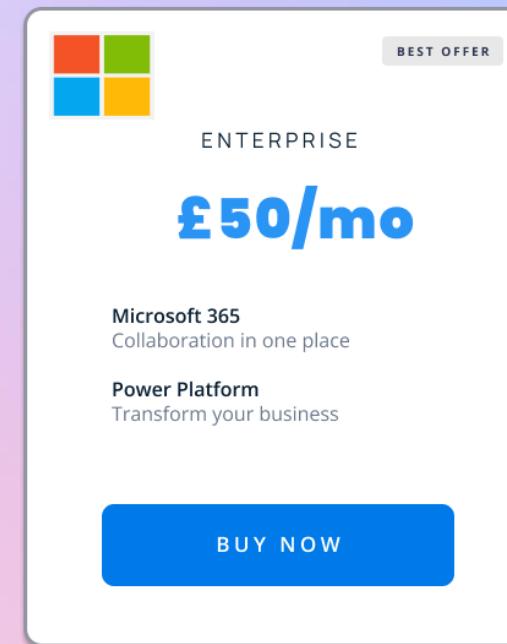
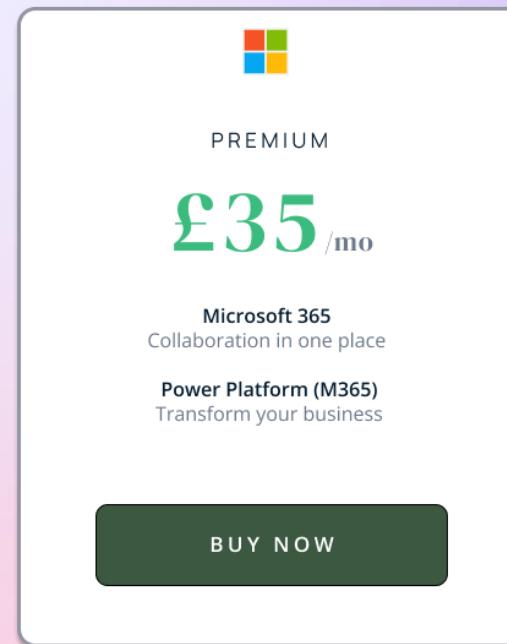
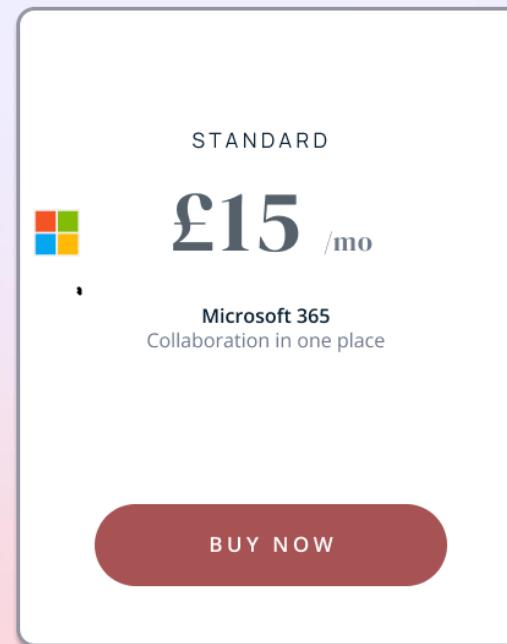
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C – using contrast



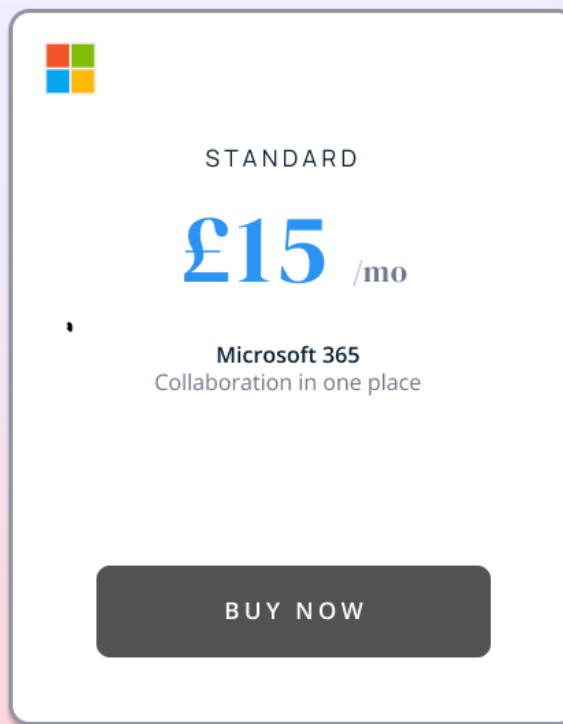
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R - using repetition



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R - using repetition

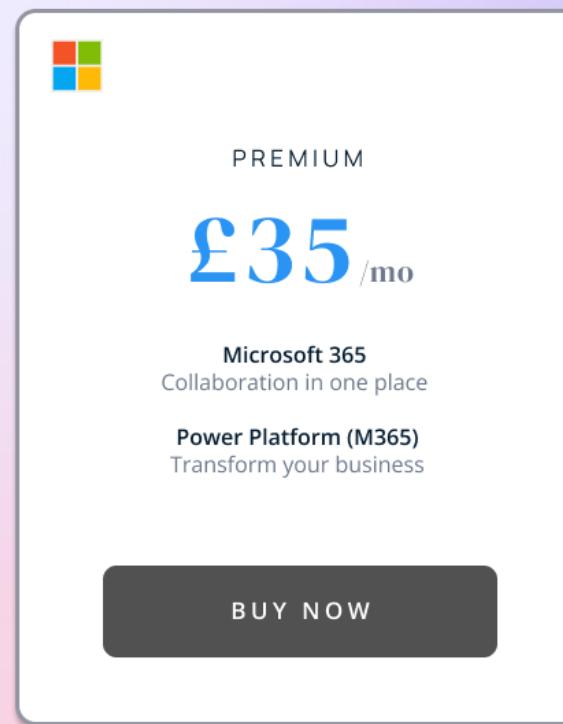


STANDARD

£15 /mo

Microsoft 365
Collaboration in one place

BUY NOW



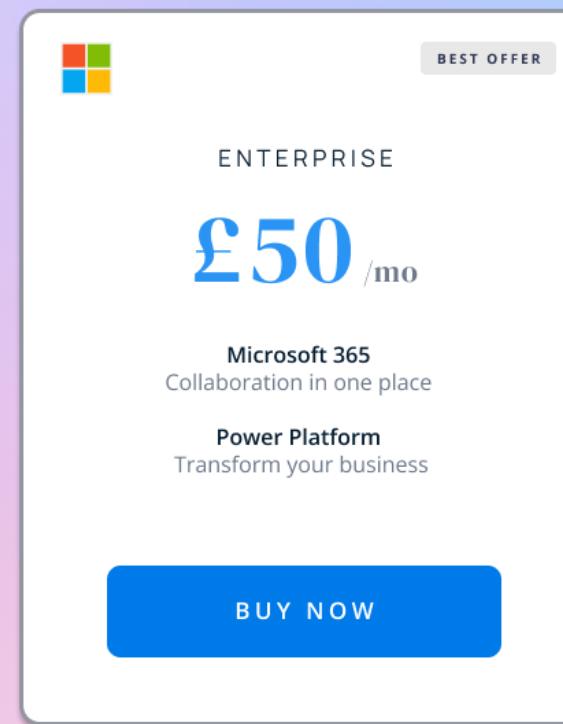
PREMIUM

£35 /mo

Microsoft 365
Collaboration in one place

Power Platform (M365)
Transform your business

BUY NOW



ENTERPRISE

£50 /mo

Microsoft 365
Collaboration in one place

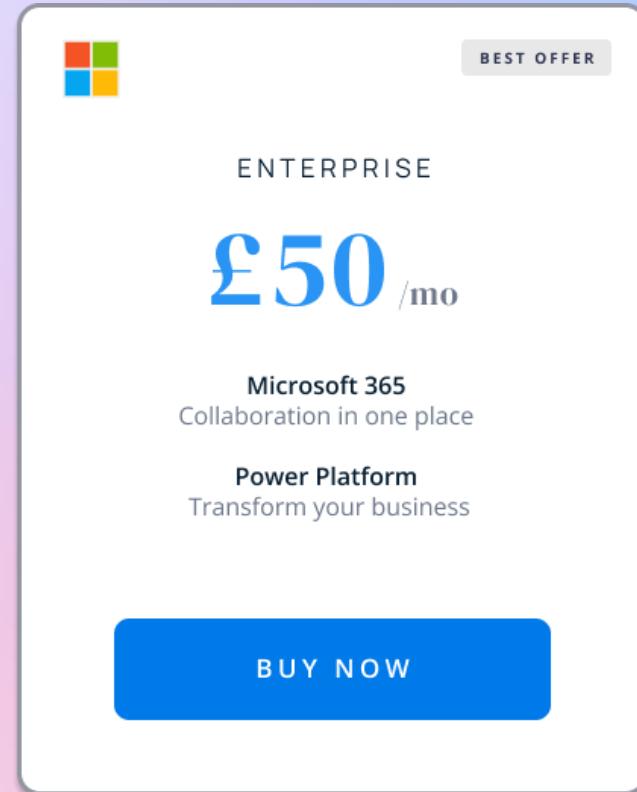
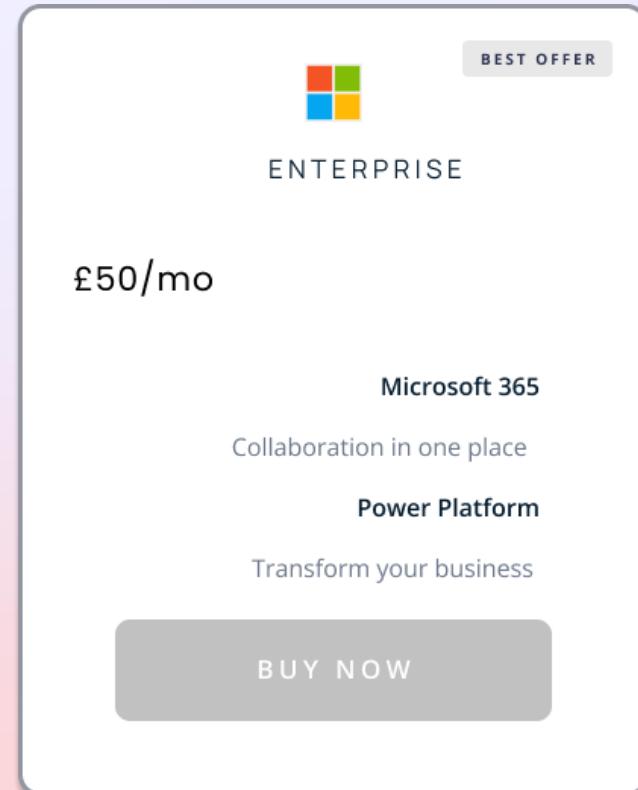
Power Platform
Transform your business

BUY NOW



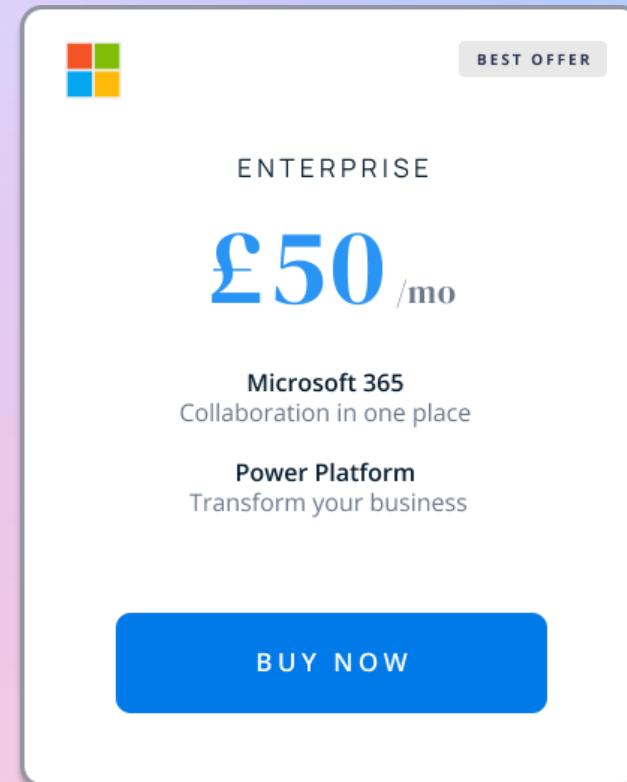
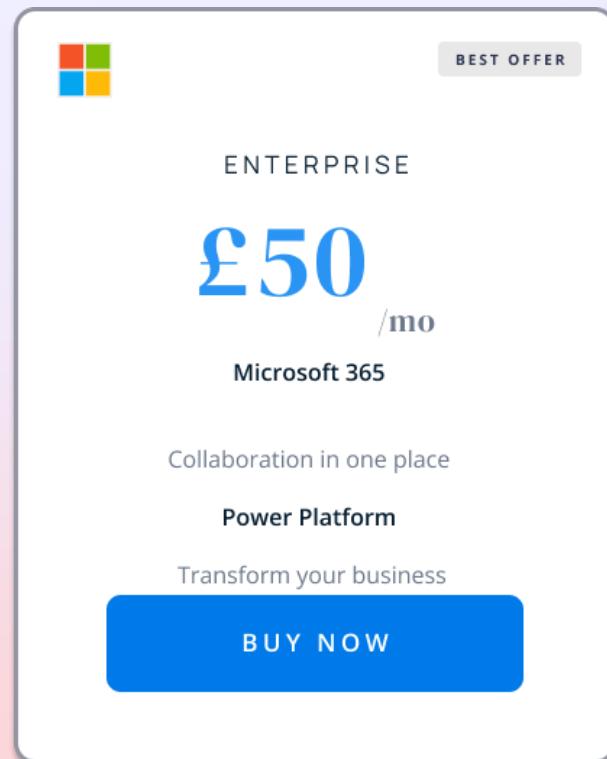
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A - using alignment



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P - using proximity



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P - using proximity

📞 123 456 789

#PrinCSS

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🐦 @kristinek94

✉ kristine@email.com

⊕ kristinekolodziejksi.com



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#PrinCSS

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⊕ kristinekolodziejksi.com

✉ kristine@email.com

🐦 @kristinek94



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Typography

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Typography

Use **simple** and legible fonts.

Hello

Hello

Hello

Hello

Hello



Hello

Hello

Hello

Hello

Hello



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Typography

Do **not** use overly decorative fonts

Welcome to my application

Welcome to my application



Welcome to my application.



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Typography

Emphasize text to create contrast.

Welcome, Kristine.



Welcome, Kristine.



kristinekobdayski

Typography

Avoid italics unless necessary.

Welcome, Kristine.



Welcome, Kristine.



kristinekobdayski

Typography

Do not use underlined text for **plain** text.

Welcome, Kristine.



Welcome, Kristine.



kristinekobdayski

Text alignment

Left-aligned is more legible.

Pavlova is a meringue-based dessert. Originating in either Australia or New Zealand in the early 20th century, it was named after the Russian ballerina Anna Pavlova. Taking the form of a cake-like circular block of baked meringue, pavlova has a crisp crust and soft, light inside.



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Iconography

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Iconography

Your icons should look similar and belong to one icon set.



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Iconography

Icons should be consistent and of the same type.



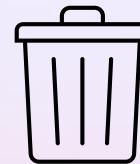
or



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Line weight and fill

Mixing and matching creates visual chaos



or



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Fill vs outline

Mixing and matching creates visual chaos



Fill icons are more legible
against **dark** backgrounds



Outline icons are more legible
against **light** backgrounds

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Color and textures

Select **one** style and use it consistently.



Single tone



Gradient



Multi-tone



Textured

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UX DESIGN

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UX design

**to plan how something looks and
works to make the activity of using it
easy and enjoyable**



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What is good UX design?



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What is good UX design?



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UX Principles



**Every UX course will tell you
differently...**

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UX Principles

Useful



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UX Principles

Useful

Usable



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UX Principles

**Useful
Usable**

Desirable



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UX Principles

Learnable

**Useful
Usable
Desirable**



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UX Principles

Memorable

**Useful
Usable
Desirable
Learnable**



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UX Principles

Accessible

**Useful
Usable
Desirable
Learnable
Memorable**



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UX Principles

Credible

**Useful
Usable
Desirable
Learnable
Memorable
Accessible**



Kristine Kobayashi

UX Principles

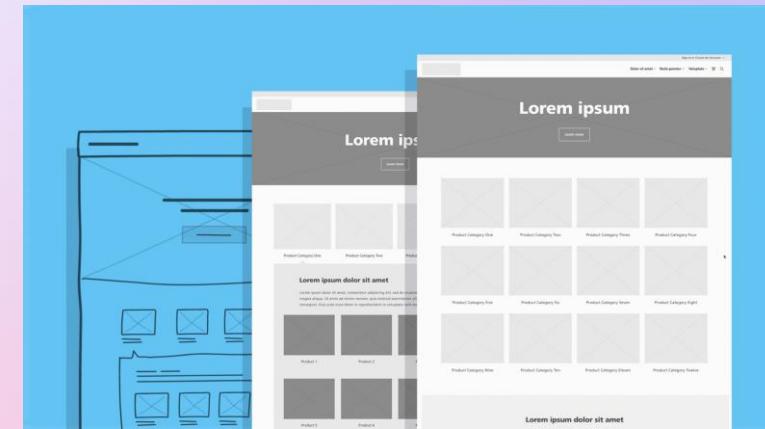
**Useful
Usable
Desirable
Learnable
Memorable
Accessible
Credible**



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What is the UX process?

Wireframing



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What is the UX process?

User research



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What is the UX process?

Copywriting



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What is the UX process?

User personas



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What is the UX process?

User testing



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‘I’m not creative...’

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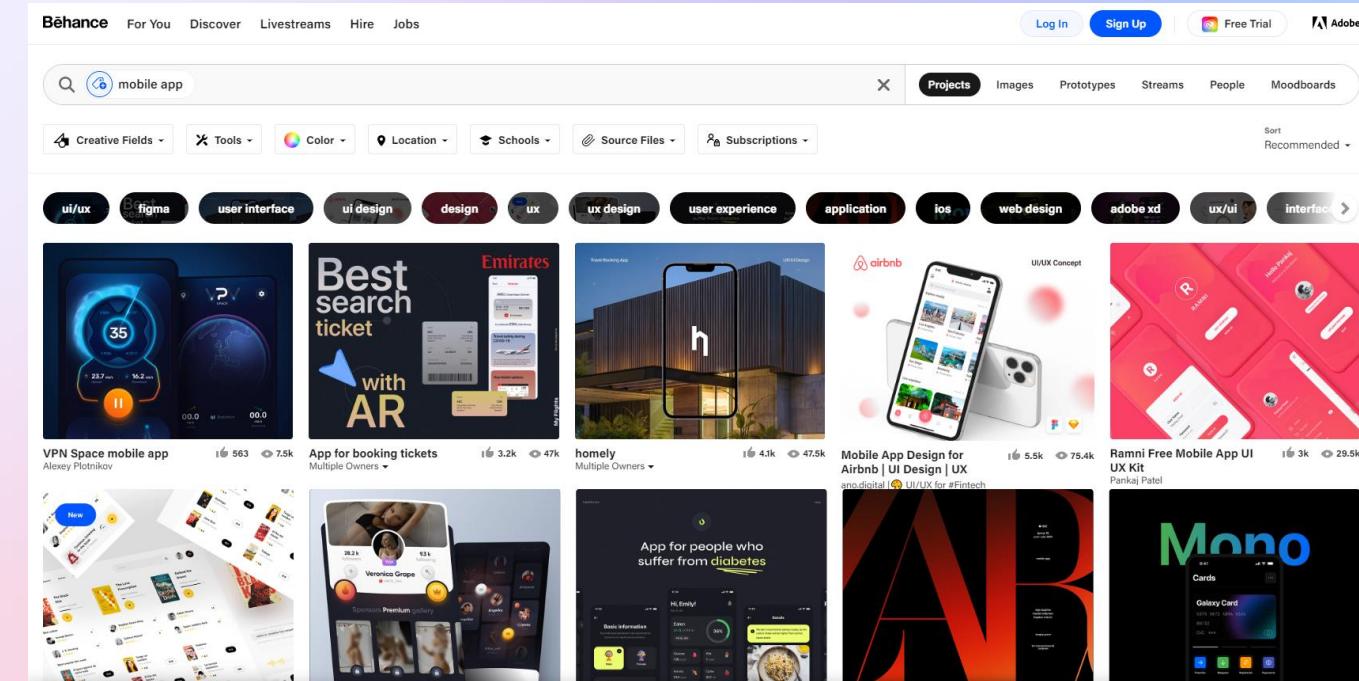


That's OK!

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Inspiration

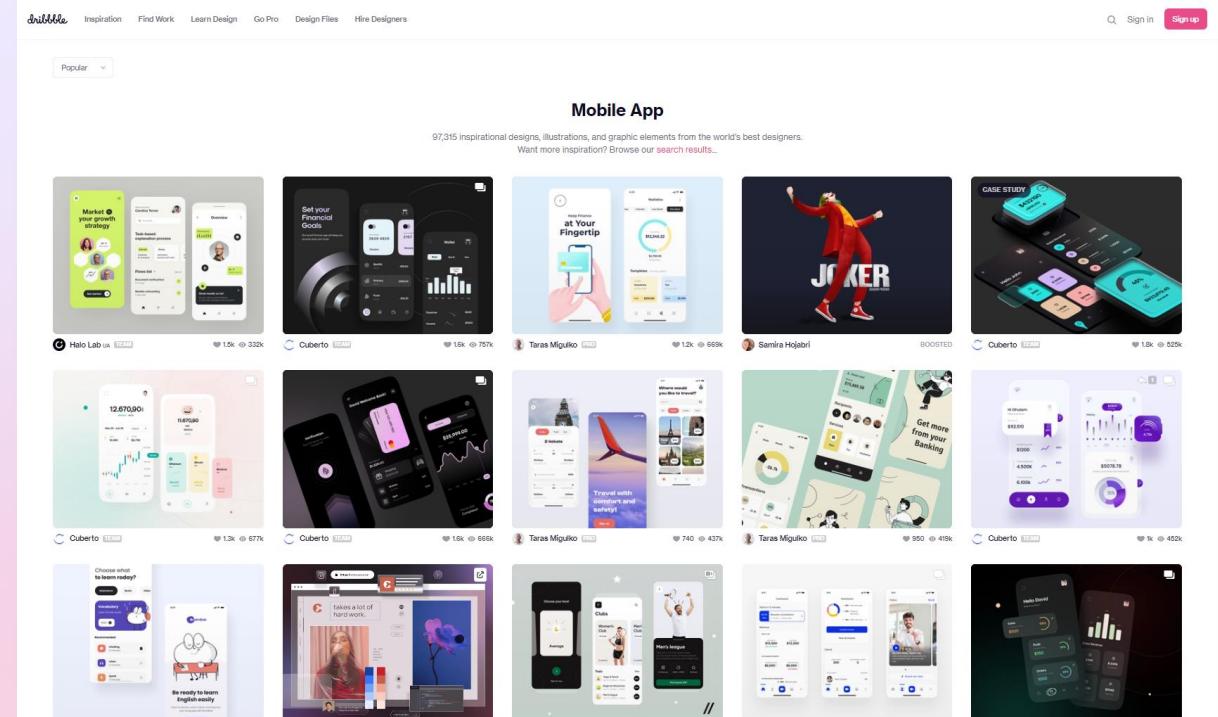
Behance



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Inspiration

Dribbble



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Inspiration

Grab your mobile!



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Design tools

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UI tools



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Not a UI tool



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Demo time!



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Accessibility

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What is accessibility?

the practice of making your websites usable by
as many people as possible

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'It doesn't affect many people'

15%

of the world population has a permanent disability

73%

of disabled users experienced issues with apps and websites

71%

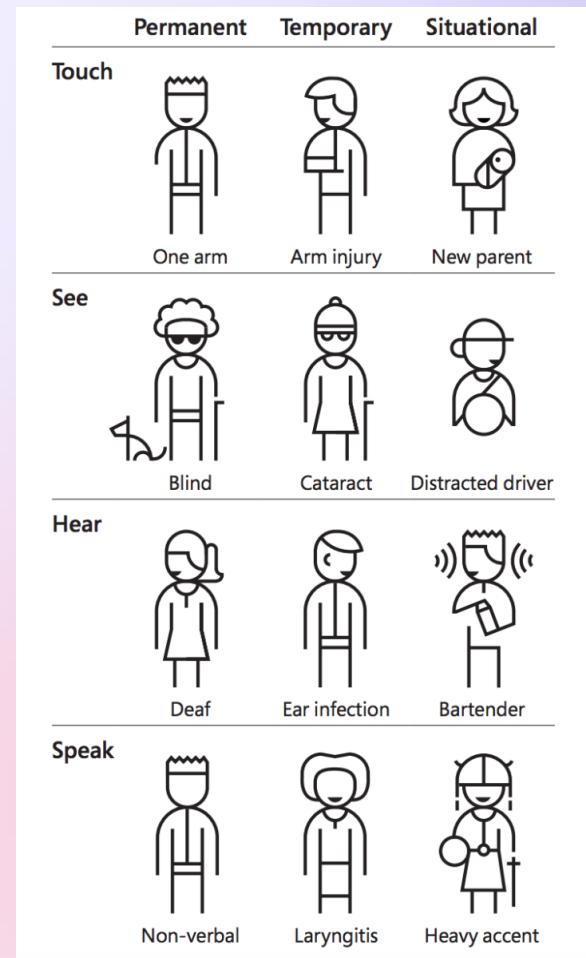
of those users will also click away from your app/website if it's problematic

70%

of all websites checked for accessibility had major issues

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Types of accessibility



by Microsoft

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Accessibility in the Power Platform



Color contrasts

Easy to understand

Alt text

Keyboard navigation

Logical layout

Accessibility checker

Focused borders

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Why does it matter?



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Introduction to HTML & CSS

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What is HTML?



HyperText Markup Language

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What is HTML?



HyperText Markup Language

standard markup language for documents
designed to be displayed in a web browser

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What is HTML?



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HTML

```
<div class="container"></div>
```

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HTML

HTML element

```
<div class="container"> </div>
```

opening tag

closing tag

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HTML

self-closing HTML element

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HTML

element name

value

```
<div class="container"> Hi! </div>
```

attribute

content

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What is CSS?



Cascading Style Sheets

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What is CSS?

Cascading Style Sheets



style sheet language used to style
HTML content

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CSS



ruleset

```
.ninja {  
  visibility: hidden;  
  color: black;  
}
```

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CSS



selector

property

.ninja {

visibility: hidden;
color: black;

}

value

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CSS

```
<div class="container"> </div>
```

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Demo time



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Introduction to SVG

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What are SVGs?

SVG is short for Scalable Vector Graphics, an XML-based image format for two-dimensional graphics

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What are SVGs?

????



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Standard image vs SVG



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SVGs can be 3d too.. *kinda*



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When to use what format?

(in Power Apps context)



Loading screens

Company logos

Animations

Extend existing icon sets



Complex images

Photography

3D & isometric imgs

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SVG in Power Apps

To add SVG images into Power Apps, we have to use the EncodeUrl function to translate special characters into ASCII.

“data: image/svg + xml; utf8, “& EncodeUrl (“ **our SVG code** ”)

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SVG animations in Power Apps

SVG's are at present the only way to create animations within Power Apps (excluding GIF's and timer control)

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SVG animations in Power Apps

SMIL

```
<animate
  xlink:href="#orange-circle"
  attributeName="cx"
  from="50"
  to="450"
  dur="1s"
  begin="click"
  fill="freeze" />
```



```
@keyframes hideshow {
  0% { opacity: 1; }
  10% { opacity: 1; }
  15% { opacity: 0; }
  100% { opacity: 0; }
}
```



```
var s = Snap();
var circ = s.circle(50, 50, 40);
circ.attr({
  fill: "red"
});

circ.animate({
  r: 150
}, 2000, mina.easein);
```

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SVG animations in Power Apps

SMIL

```
<animate
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