

ILLUSTRATING ≡ THE POINT



The word 'POINT' is written in a large, purple, hand-drawn font. A hand holding a purple pen is shown writing the final letter 'T' and then drawing two thick, parallel purple lines underneath the entire phrase 'ILLUSTRATING THE POINT'. To the left of the word 'POINT', there are three short, parallel purple lines slanted upwards to the right, resembling an equals sign or a stylized 'E'.

images as effective
COMMUNICATION TOOLS

Cordelia McGee-Tubb



Web Accessibility Lead, Dropbox



Master of Comics

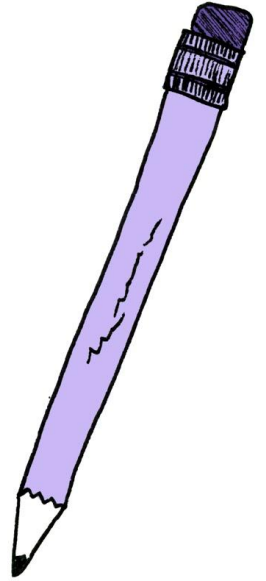


@cordeliadillon



Comics School, Day 1:

**Comics are about
relationships.**



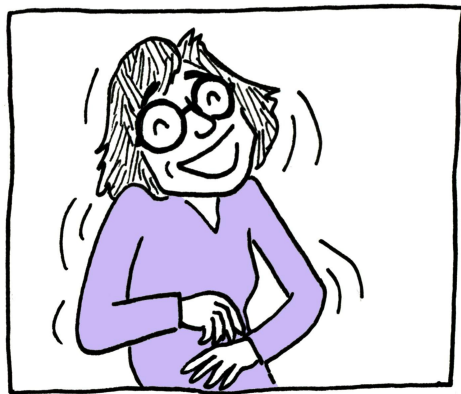


image & image



image & image



image & text



image & image



image & text

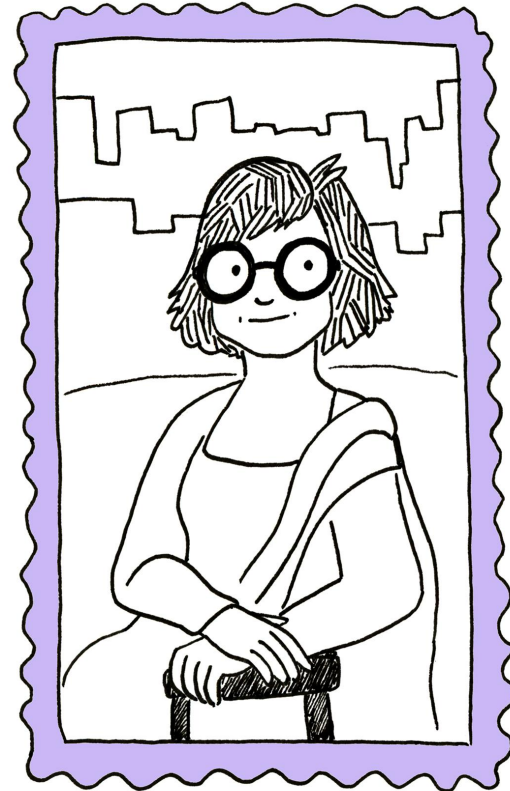


image & culture

I believe...

Websites are comics.

Try Dropbox Business



Download the app Sign in

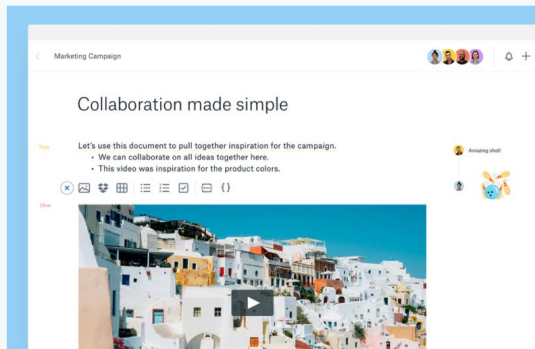
Reinventing teamwork

Introducing Dropbox Paper and Smart Sync — a simpler way to work together.

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Dropbox Paper

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Smart Sync

Everything you need, right when you need it

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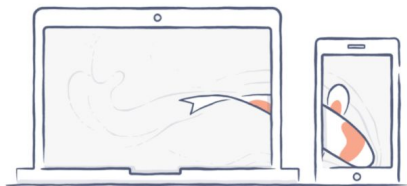


Dropbox works the way you do

Take your docs anywhere

Save files on your computer, then access them on your phone from the road. Everything you keep in Dropbox is synced automatically to all your devices.

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Send videos quickly

Send your entire wedding video to family with a simple link. It's easy to share large files with anyone — even if they don't have a Dropbox account.

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Scott McCloud's word-picture combinations

1. Word-specific
2. Picture-specific
3. Duo-specific
4. Additive
5. Interdependent
6. Parallel
7. Montage

Scott McCloud's word-picture combinations

1. **Word-specific**
2. Picture-specific
3. **Duo-specific**
4. **Additive**
5. **Interdependent**
6. Parallel
7. Montage

Word-specific

Words carry complete message, image illustrates some of it

Duo-specific

Words and image both convey same message

Additive

Words elaborate on image, or vice versa

Interdependent

Words and image combine to convey a meaning
neither could convey alone

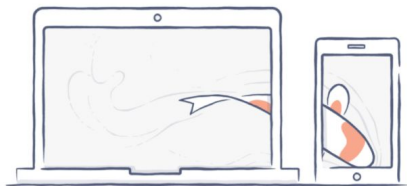


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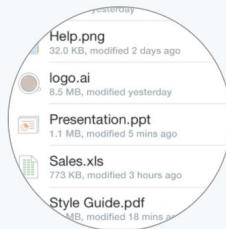
Take your docs anywhere

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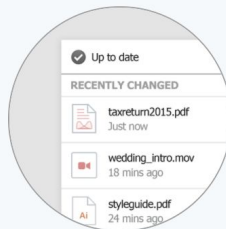
Close

All your files



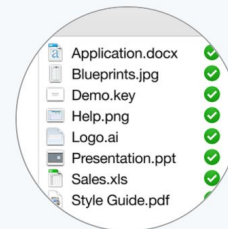
Save any kind of file in Dropbox, from photos, videos, and music to Microsoft Office and Adobe files.

Any device



Sync files across all your devices, whether you use a PC, Mac, Android, iPad, iPhone, or Windows Phone.

Offline access



Your files are available on your computer even when you're offline, so you can work from anywhere.



Take your docs anywhere

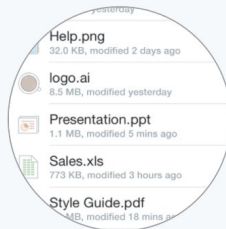
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Additive

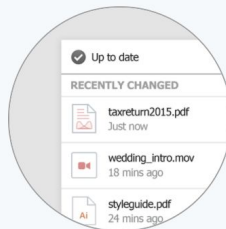
✕ Close

All your files



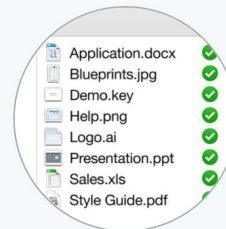
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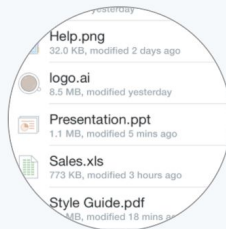


✕ Close

Additive

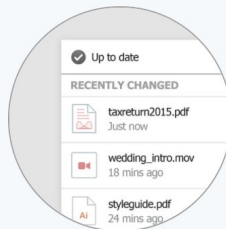
Duo-specific

All your files



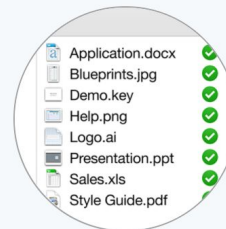
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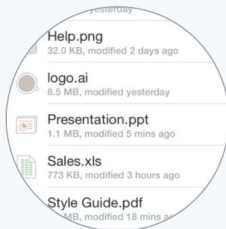


Close

Additive

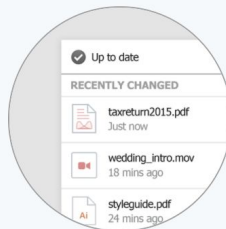
Duo-specific

All your files



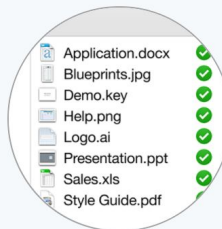
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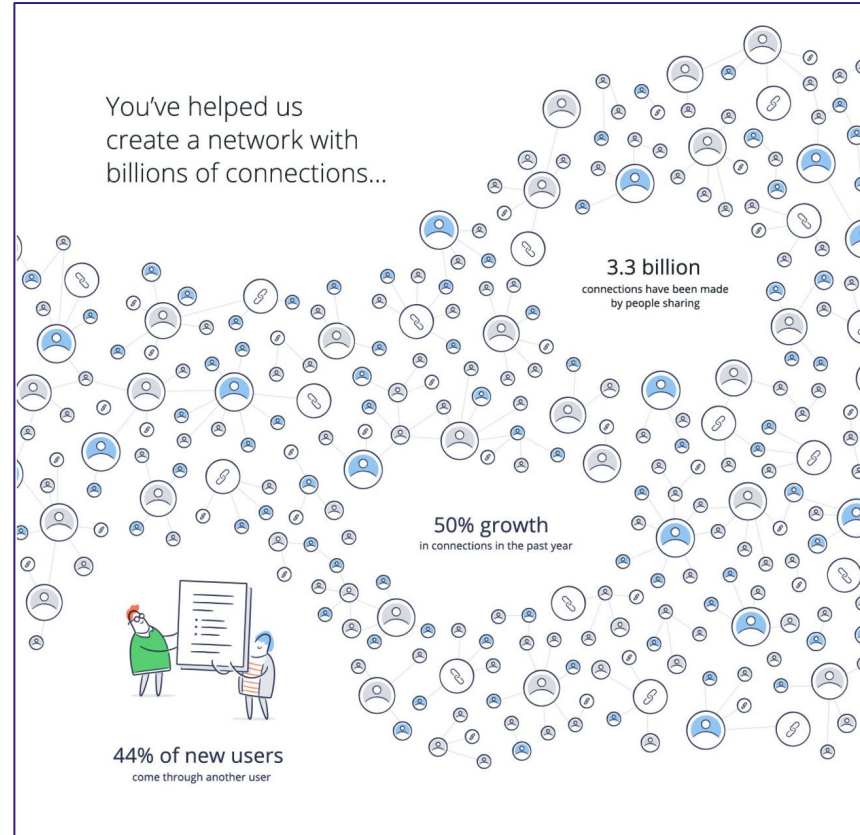
Word-specific

**Why are images
so important in
web design?**

Images make pages more dynamic.

- Control visual pacing and breaks
- Reduce clutter
- Help visual learners
- Reinforce messages conveyed in text
- Illustrate complex topics
- Convey tone and personality

Control visual pacing and breaks



"Celebrating half a billion users," Dropbox blog

Reduce visual clutter



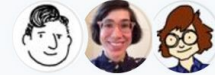
Dropbox > accessible-modal-example



Search



3 members



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Modified

Members



finished-scripts.js

2/24/2016 1:32 AM

3



images

--

3



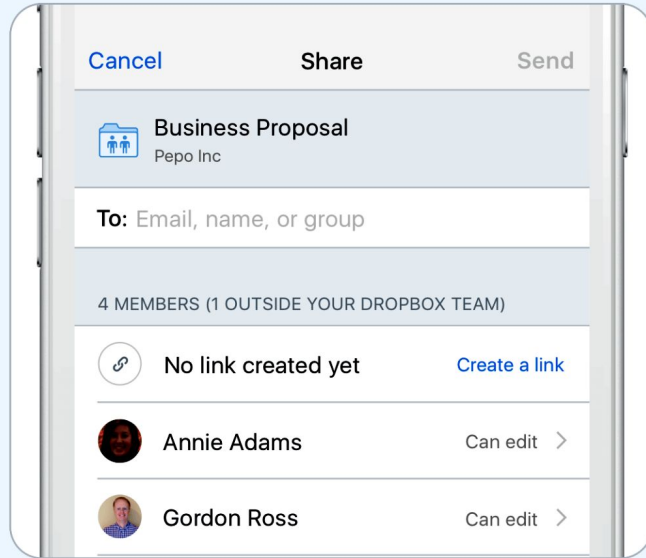
index.html

2/24/2016 5:14 PM Cordelia

3

Dropbox.com shared folder

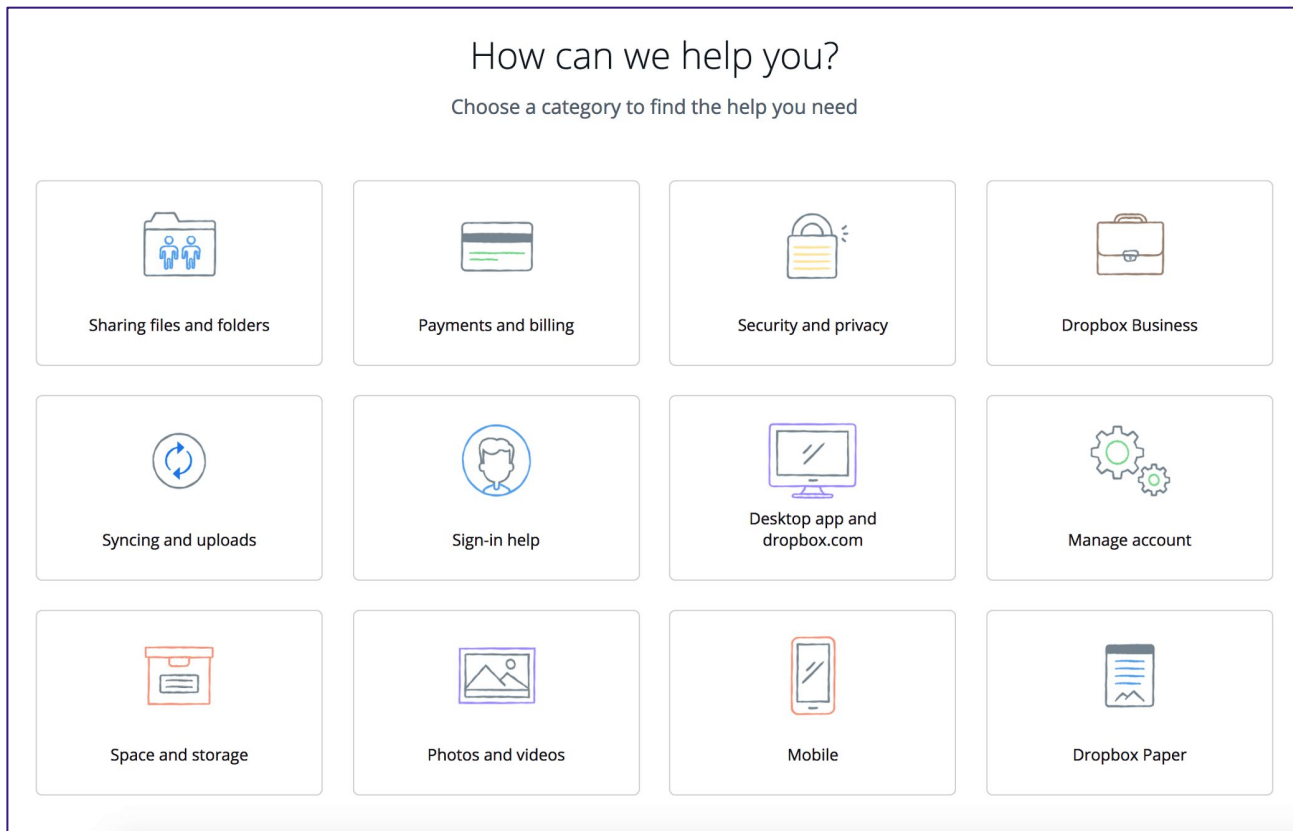
Help visual learners



Organization-wide collaboration

Use comments to quickly gather feedback right next to your files. You can also invite your team to shared folders, where they can add and edit files together. Changes sync automatically, giving everyone the most recent version in their Dropbox folders.

Reinforce messages conveyed in text



dropbox.com/help

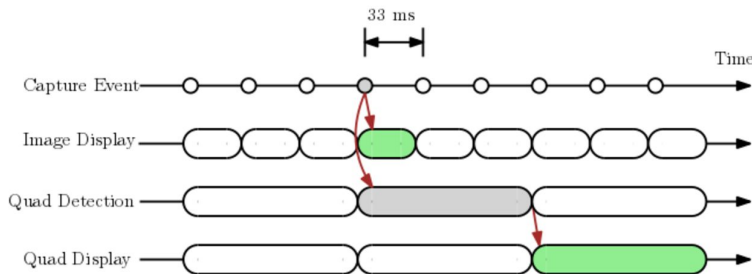
Illustrate complex topics

[See open tech jobs at Dropbox](#)

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Approach A: Asynchronous Processing

Let's assume from here on that our document detection algorithm requires 100ms per frame on a particular device, and the camera yields an image every 33 ms (i.e., 30 fps). One straightforward approach is to run the algorithm on a "best effort" basis while displaying all the images, as shown in the diagram below.



The diagram shows the relative timings of various events associated with a particular image from the camera, corresponding to the "Capture Event" marked in gray. As you can see, the image is displayed for 33 ms ("Image Display") until the next image arrives. Once the document boundary quadrilateral is detected ("Quad Detection"), which happens 100 ms after the image is received, the detected quad is displayed for the next 100 ms ("Quad Display") until the next quad is available. Note that in the time the detection algorithm is running, two *more* images are going to be captured and displayed to the user, but their quads are never computed, since the quad-computing thread is busy.

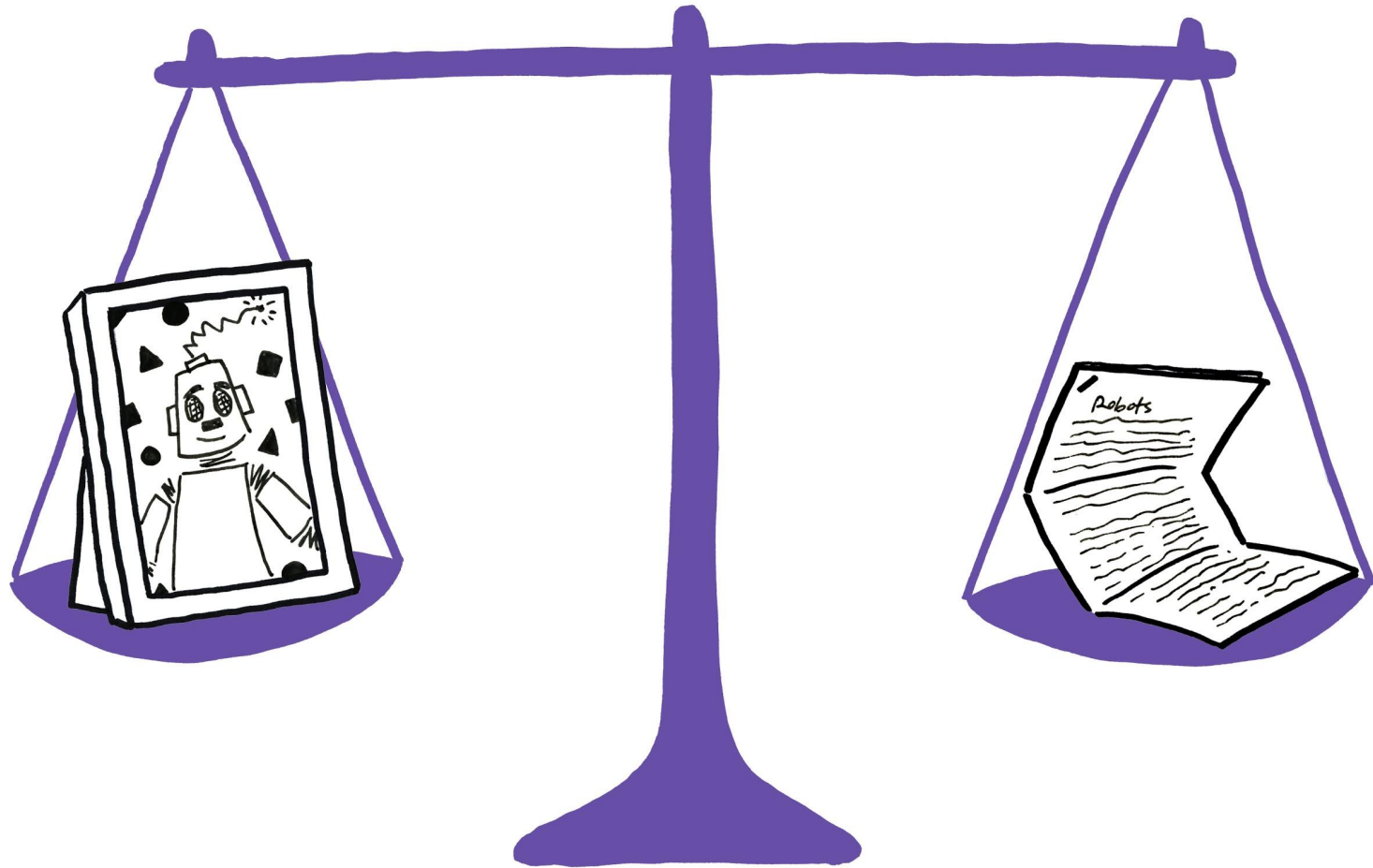
"Improving the Responsiveness of the Document Detector," Dropbox Tech Blog

Convey tone and personality



Dropbox is a technology company that
builds simple, powerful products for
people and businesses.

dropbox.com/about



**A picture's worth a
thousand words.**

**A picture's worth a
thousand words.**

Are they the same thousand
words for every viewer?

(Basically, THIS WHOLE
Talk is ABOUT CONTEXT.)

Personal experience

Memory, age, education, gender, race, cognition, vision

Personal experience

Memory, age, education, gender, race, cognition, vision

Regional variations

Language, idioms, humor, customs

Personal experience

Memory, age, education, gender, race, cognition, vision

Regional variations

Language, idioms, humor, customs

Visual conventions

Well-known iconography

Personal experience

Memory, age, education, gender, race, cognition, vision

Regional variations

Language, idioms, humor, customs

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System context

Particular to this interface

Personal experience

Memory, age, education, gender, race, cognition, vision

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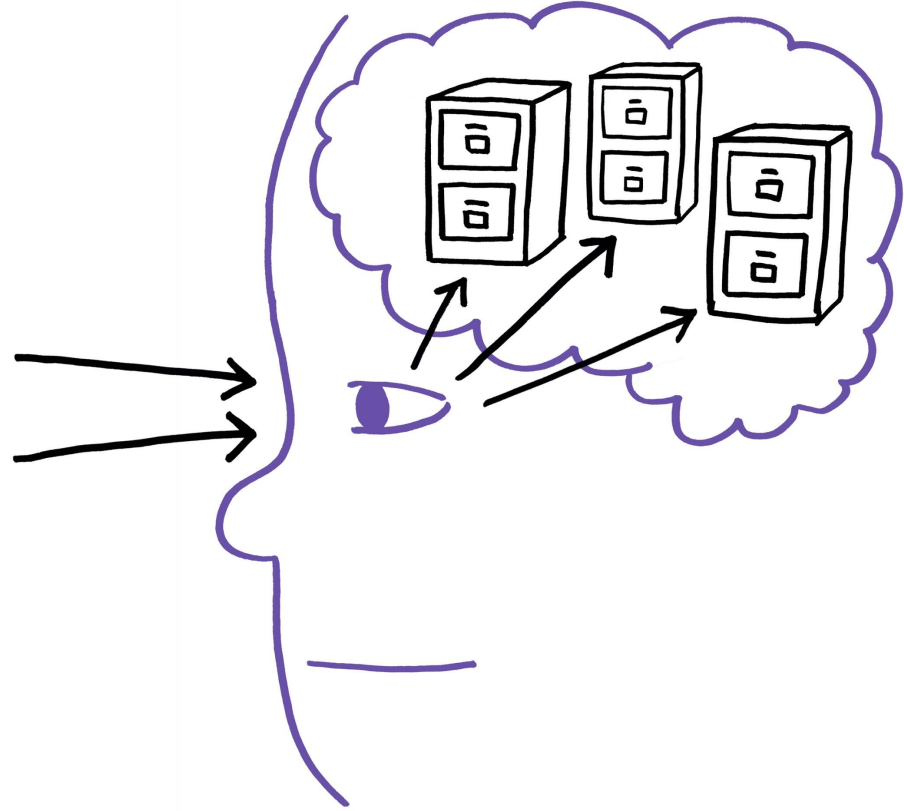
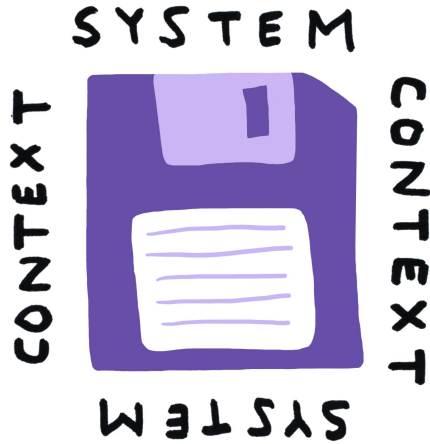
Well-known iconography

System context

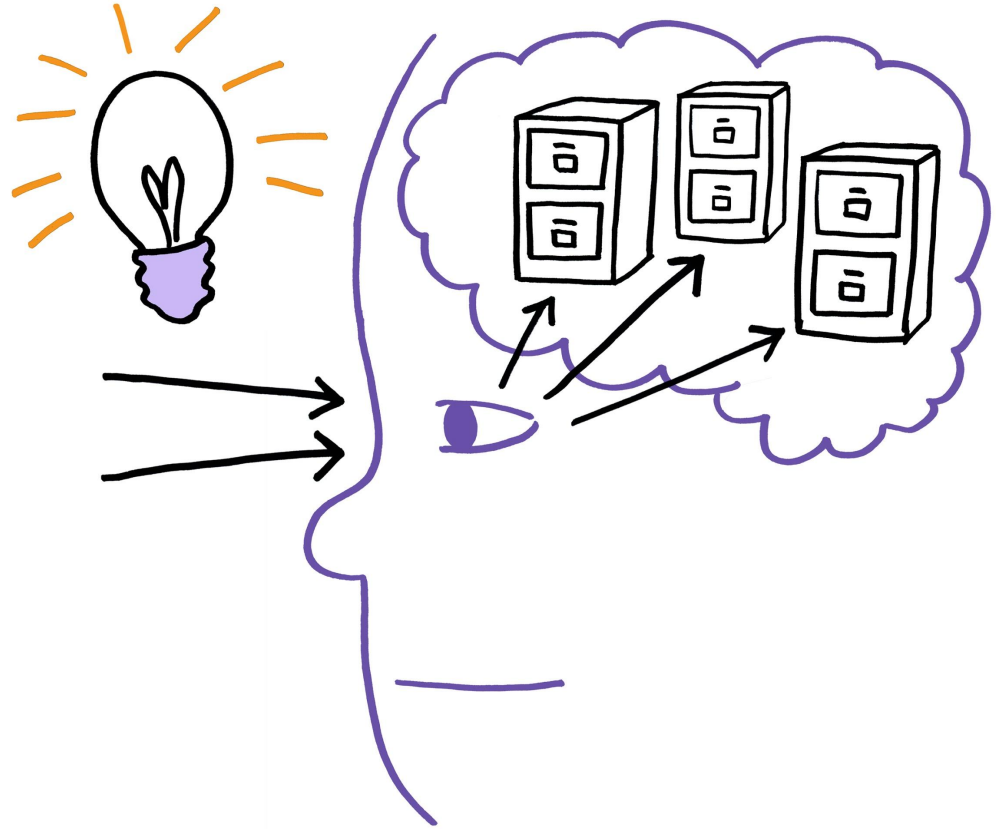
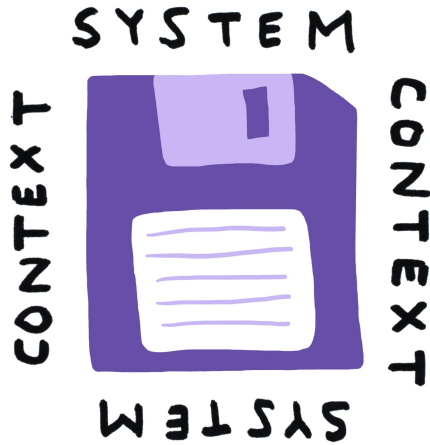
Particular to this interface



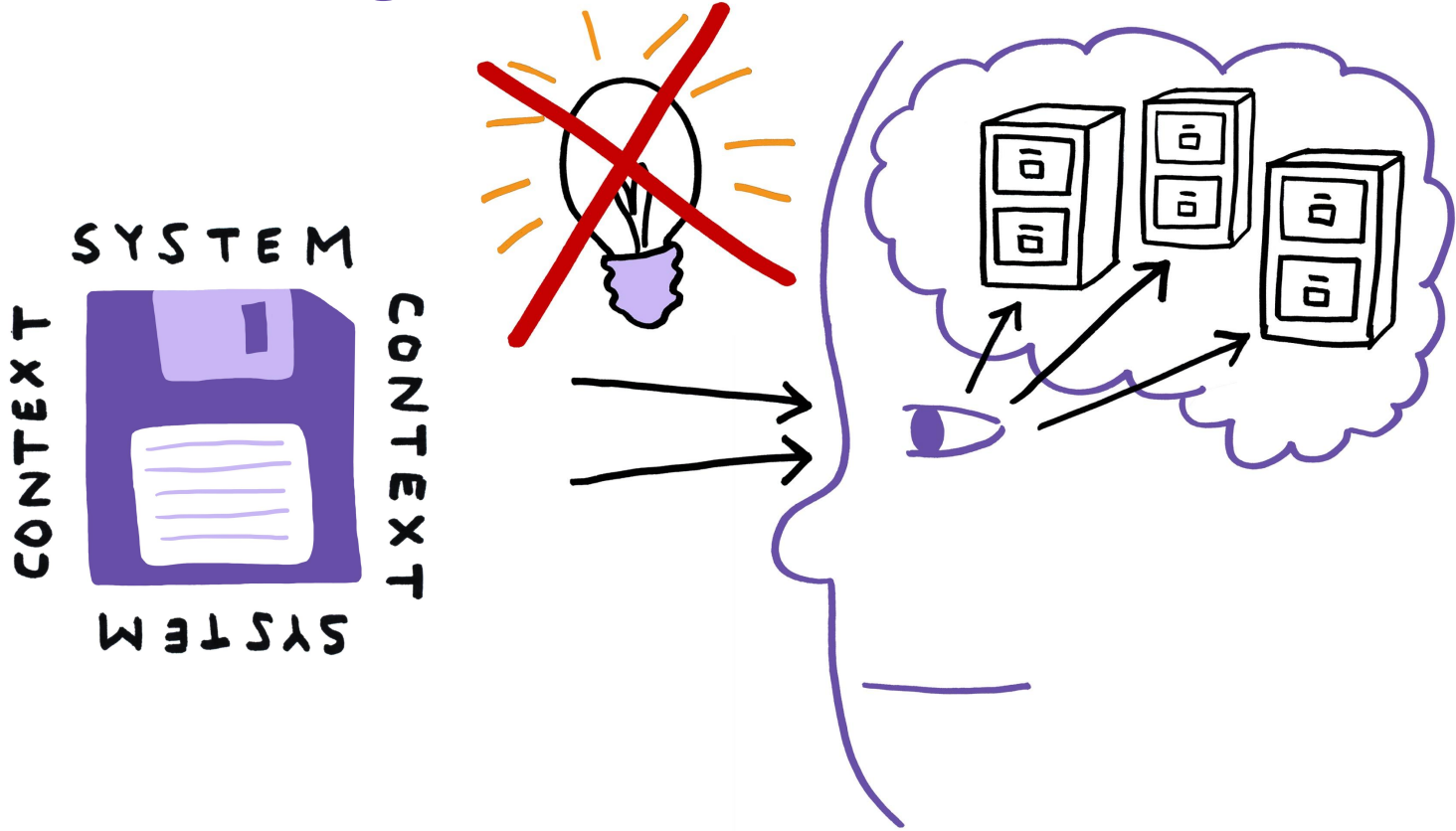
A very scientific diagram



A very scientific diagram



A very scientific diagram



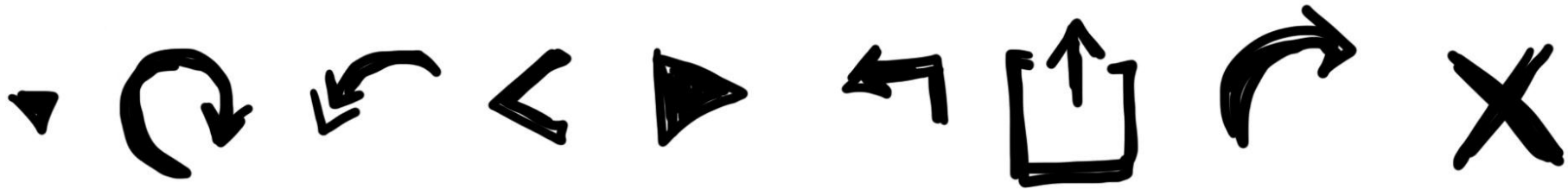
Everyone has a different context.

Image meaning gets muddled
when we make too many
assumptions about users.

Icons

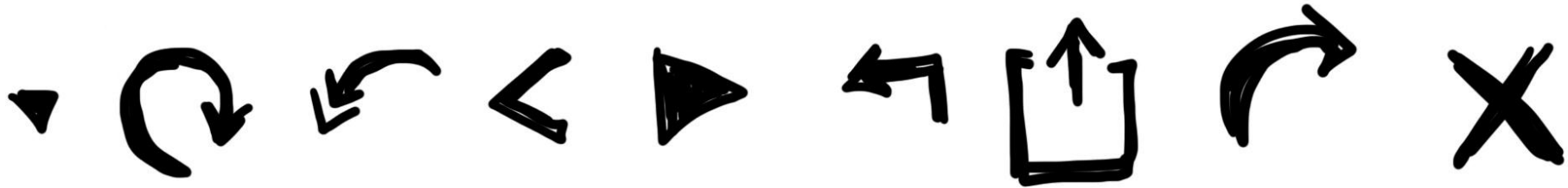
- Convey state or action
- Designed to have clear, intentional purpose
- Audiences don't always understand them

Ambiguity and frustration



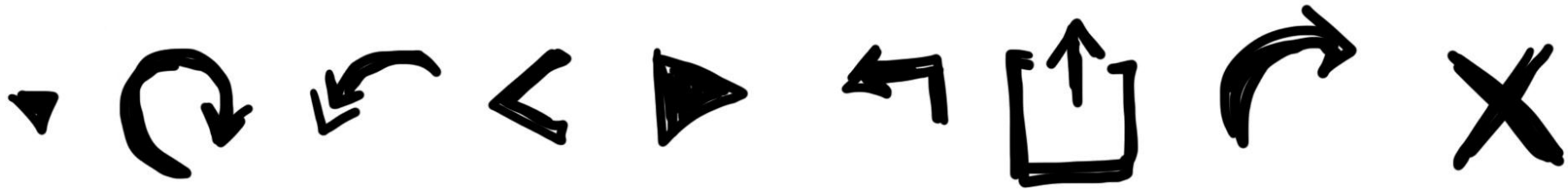
Ambiguity and frustration

- Especially confusing for new or elderly users



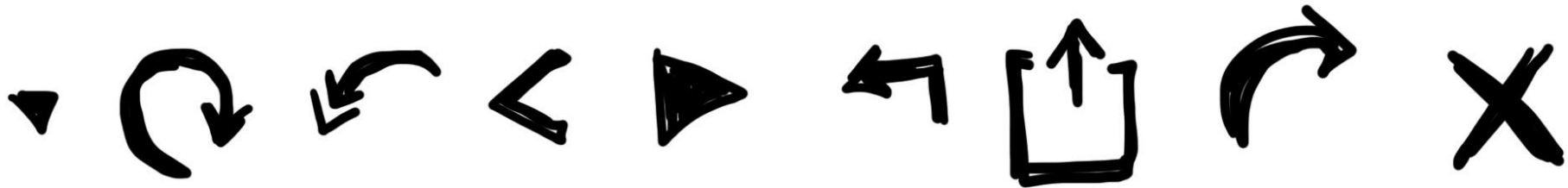
Ambiguity and frustration

- Especially confusing for new or elderly users
- Don't want to click on something you don't understand



Ambiguity and frustration

- Especially confusing for new or elderly users
- Don't want to click on something you don't understand
- Screen reader users have **advantage** when icons are properly coded, extreme **disadvantage** when not



Resolving icon ambiguity

- Get feedback from people **outside** your team.
 - What does this icon represent by itself?
 - Is the icon's meaning clear in this interface?

Resolving icon ambiguity

- Get feedback from people **outside** your team.
 - What does this icon represent by itself?
 - Is the icon's meaning clear in this interface?



Resolving icon ambiguity

- Build in more context:
 - Accessible name for assistive technology
 - Also try one of these:
 - text adjacent to icon (**duo-specific, word-specific**)
 - mouse & keyboard-accessible tooltip (**duo-specific**)
 - other page content (**interdependent**)

Dropbox file list actions



Dropbox file list actions



Share a folder...

Dropbox file list actions



Show deleted files

Dropbox file list actions

Upload file



New shared folder



New folder



Show deleted files

Gmail message actions



Gmail message actions



Gmail message actions



Button labels:
[Learn more](#)

☒ **Icons**
☐ **Text**

Gmail message actions



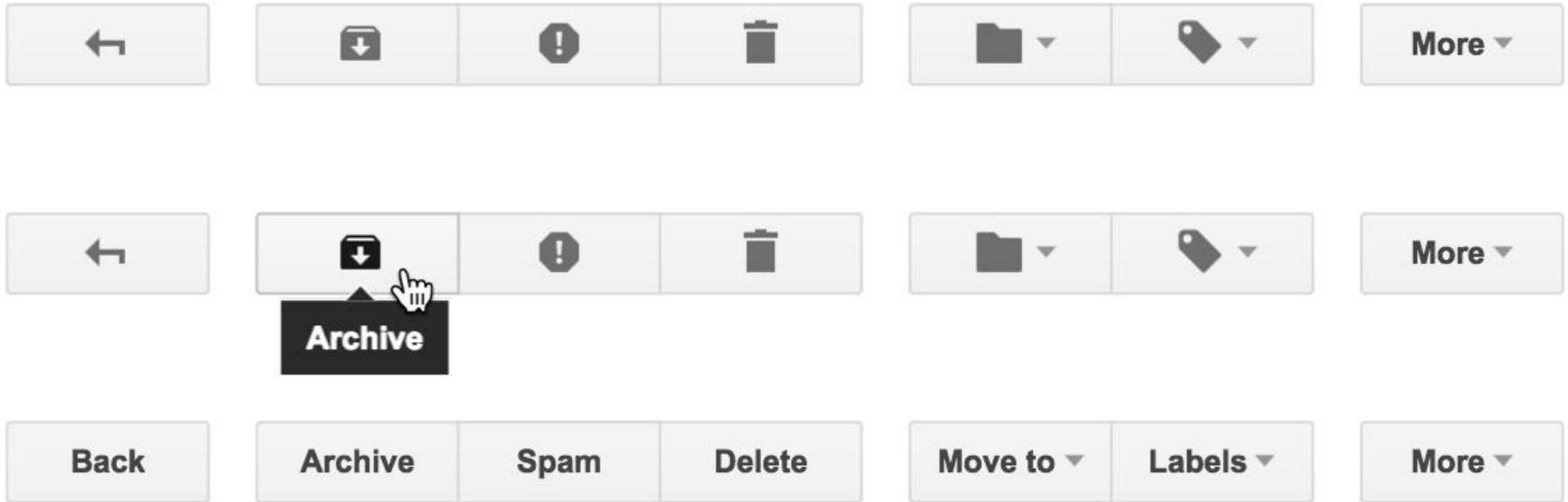
Button labels:

[Learn more](#)

☐ Icons
☒ Text



Gmail message actions



Stickers and emoji

- Use images to convey information, reactions, and emotions in a more playful and engaging way
- Flexible expression
- Highly subjective

◉ Mark as unread



Cordelia McGee-Tubb 10

seconds ago (edited)

Do you think I need to
change this slide?



Reply



◉ Mark as unread



Cordelia McGee-Tubb 10

seconds ago (edited)

Do you think I need to
change this slide?



Reply



◉ Mark as unread



Cordelia McGee-Tubb 10

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◉ Mark as unread



Cordelia McGee-Tubb 10

seconds ago (edited)

Do you think I need to
change this slide?



Reply



◉ Mark as unread



Cordelia McGee-Tubb 32

seconds ago (edited)

Do you think I need to
change this slide?



You now



Edit • Delete



Reply



◉ Mark as unread



Cordelia McGee-Tubb 10
seconds ago (edited)

Do you think I need to
change this slide?

AT | Reply



US English:

Hang-loose hand sign

For other languages:

“Stay cool” hand sign

Backup definitions:

Dinosaur hang-loose hand sign

Dinosaur shaka gesture

◉ Mark as unread



Cordelia McGee-Tubb 10
seconds ago (edited)

Do you think I need to
change this slide?

AT | Reply



◉ Mark as unread



Cordelia McGee-Tubb 32
seconds ago (edited)

Do you think I need to
change this slide?



You now



Edit • Delete



Reply

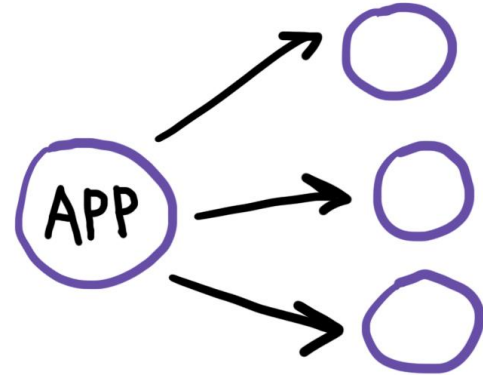


Areas of ambiguity

- A new layer of context: user-generated content

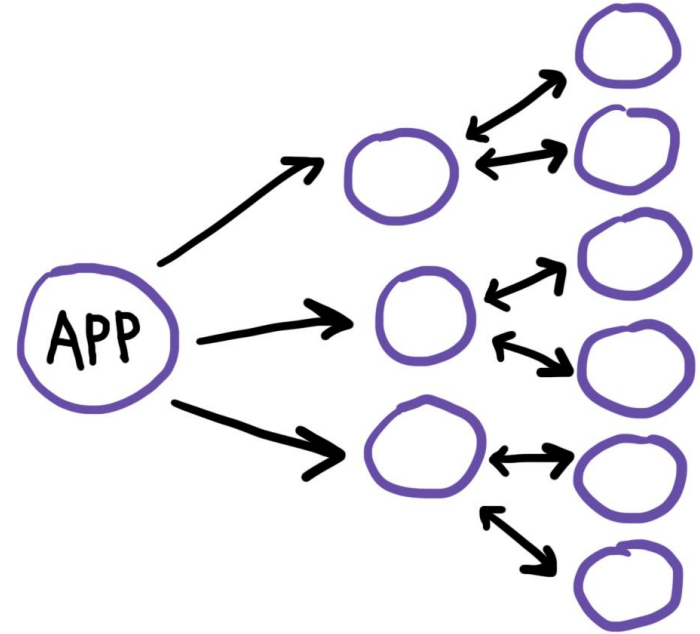
Areas of ambiguity

- A new layer of context: user-generated content



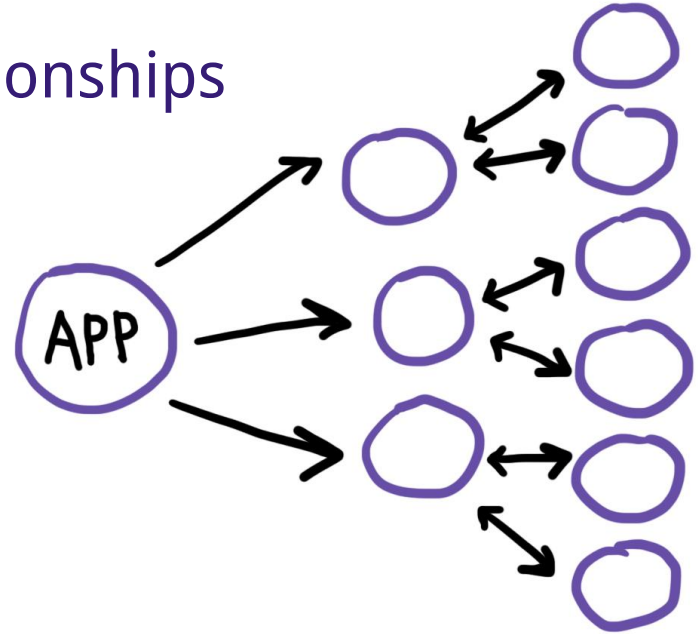
Areas of ambiguity

- A new layer of context: user-generated content



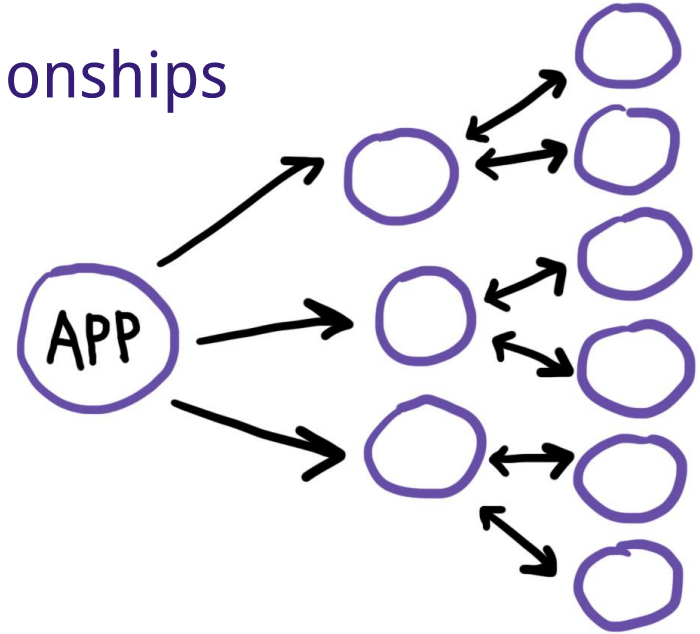
Areas of ambiguity

- A new layer of context: user-generated content
- Many potential text-to-image relationships



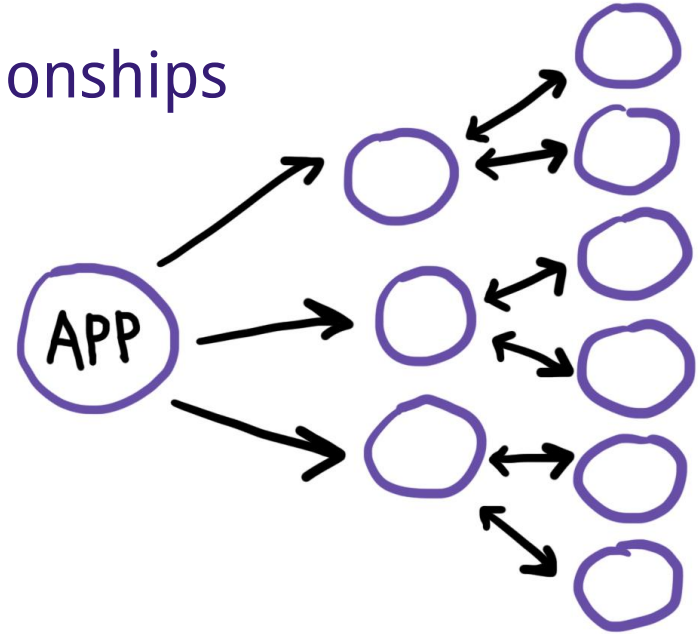
Areas of ambiguity

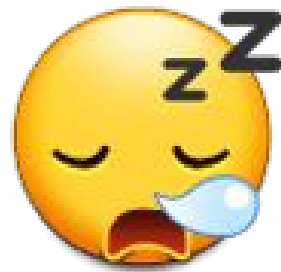
- A new layer of context: user-generated content
- Many potential text-to-image relationships
- Do you try to encourage a single definition for an image?



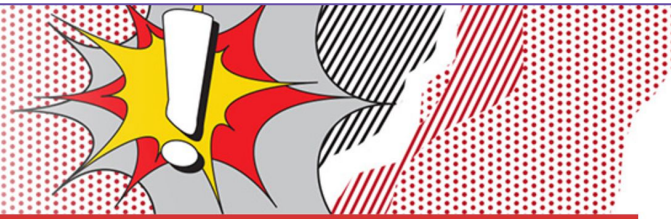
Areas of ambiguity

- A new layer of context: user-generated content
- Many potential text-to-image relationships
- Do you try to encourage a single definition for an image?
- If not, what definition do you supply for screen reader users?





Ouch: Disability Talk



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How do blind people interpret emoji's? - Repeat

The internet is becoming increasingly visual. How do blind people experience emoji's and is digital communication becoming more inaccessible? This episode was originally podcast in October 2015.

Available now

🕒 16 minutes

[“How do blind people interpret emojis?”](#) Ouch: Disability Talk

Providing clarity and flexibility

- When designing new expressive symbols, consider:
 - Subtleties of facial expression
 - Regional variations
 - Color contrast

Providing clarity and flexibility

- When designing new expressive symbols, consider:
 - Subtleties of facial expression
 - Regional variations
 - Color contrast
- When displaying these symbols, consider:
 - Text tooltips
 - Contextual translation

Compose new Tweet



Did you know the aria-label for this emoji is "Emoji: Sleepy face"?



GIF



140



Twe



Search for emoji



Recently used

clear



Sleepy face

people



TWEETS

10.1K

FOLLOWING

563

FOLLOWERS

1,480

LIKES

7,657

LISTS

1

MOMENTS

0

Tweets

Tweets & replies

Media



Pinned Tweet

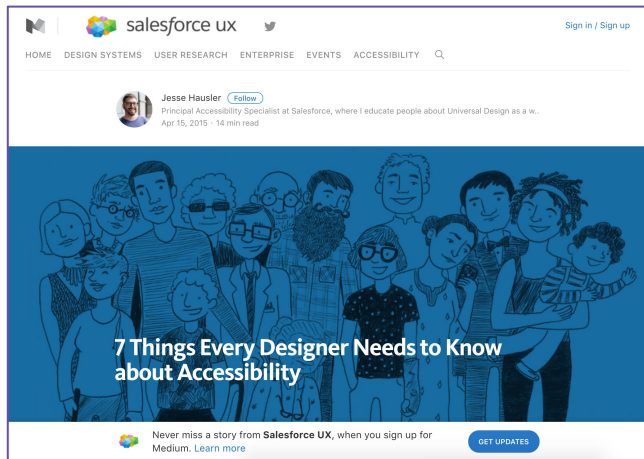


Cordelia @cordeliadillon · Jan 25

“Decorative” images

- Great visual separators
- Amplify surrounding content
- Set mood or tone
- Potentially inviting or distancing

Am I represented?



"7 Things Every Designer Needs to Know about Accessibility," Jesse Hausler (author), Cordelia (illustrator)

5

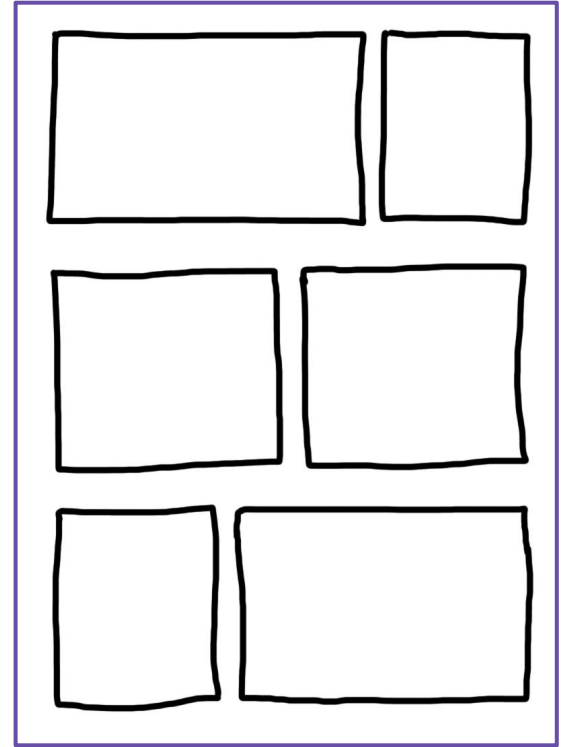
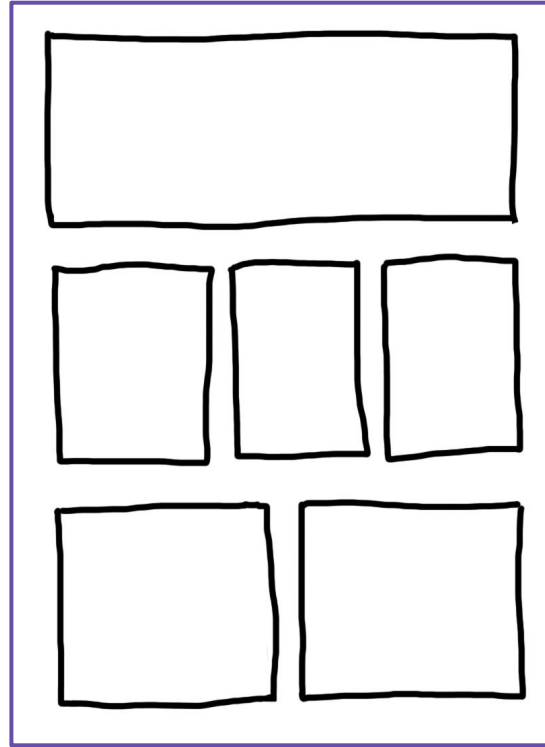
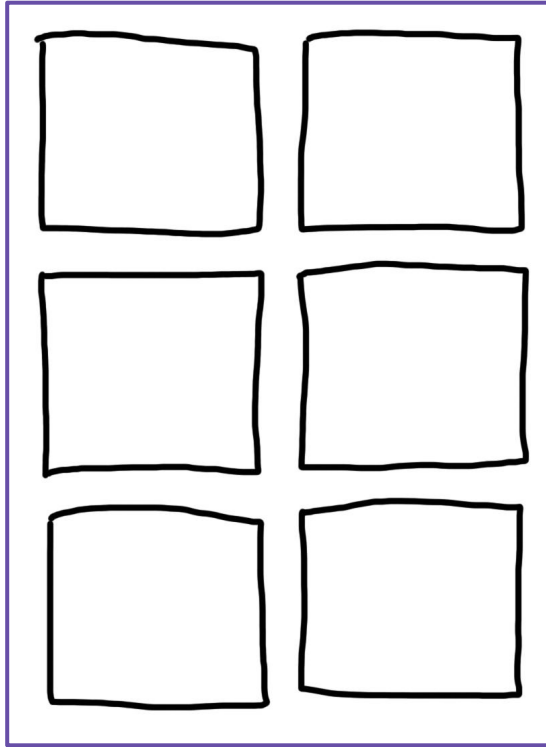
TAKE A DEEP BREATH.



you can do this.

Websites and comics:
relationships between images,
words, and cultural context.

Page and panel layouts



Scott McCloud's word-picture combinations

1. **Word-specific**
2. Picture-specific
3. **Duo-specific**
4. **Additive**
5. **Interdependent**
6. Parallel
7. Montage

**Remember your
audience's varied
experiences.**

Don't assume context.

Do provide context.
(words & other page elements)



MAKE *it*
VIBRANT

The image features a central text graphic surrounded by a festive border. The border includes three balloons (yellow, orange, and green) and numerous small, colorful confetti pieces (triangles and circles) in shades of purple, yellow, orange, and green. The text 'MAKE it VIBRANT' is written in a bold, purple, hand-drawn font, with 'it' in a smaller, italicized script.

Thanks!

@cordeliadillon

