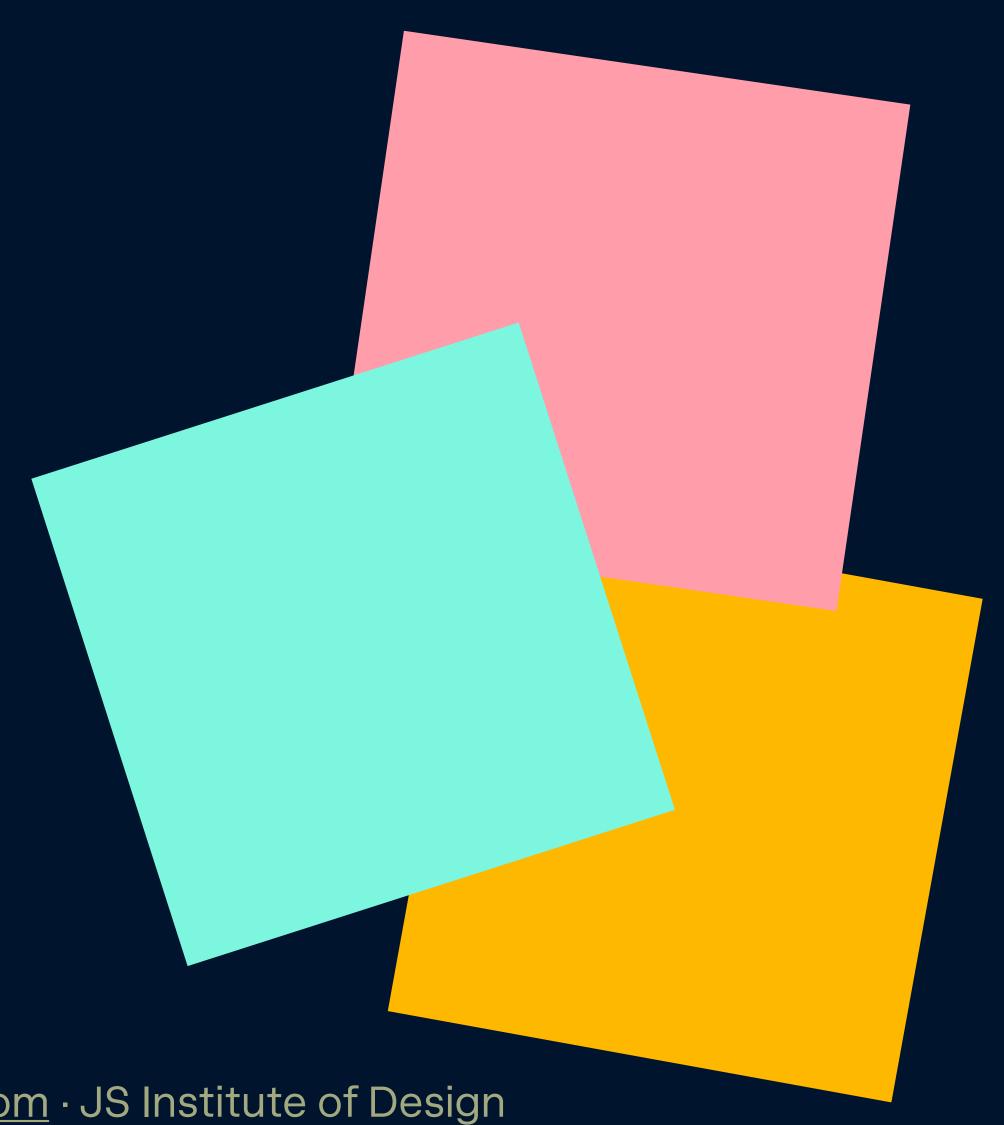
Lecture 7

Ergonomics -Physical and Cognitive

Feedback Mechanisms



30 September 2025 · Gyan Lakhwani · <u>gyanlakhwani@gmail.com</u> · JS Institute of Design

Pick a Number!

1234567

Remember the one you pick.

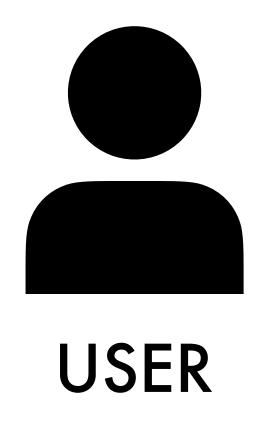
HOMEWORK ACTIVITY

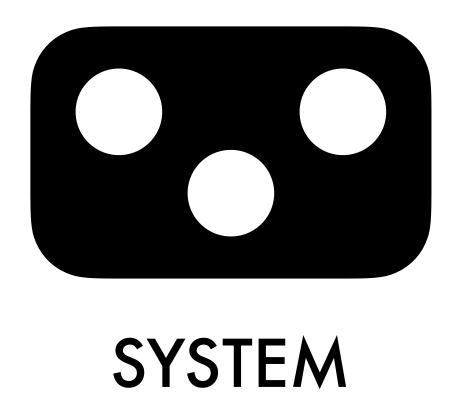
TYPES OF ERRORS

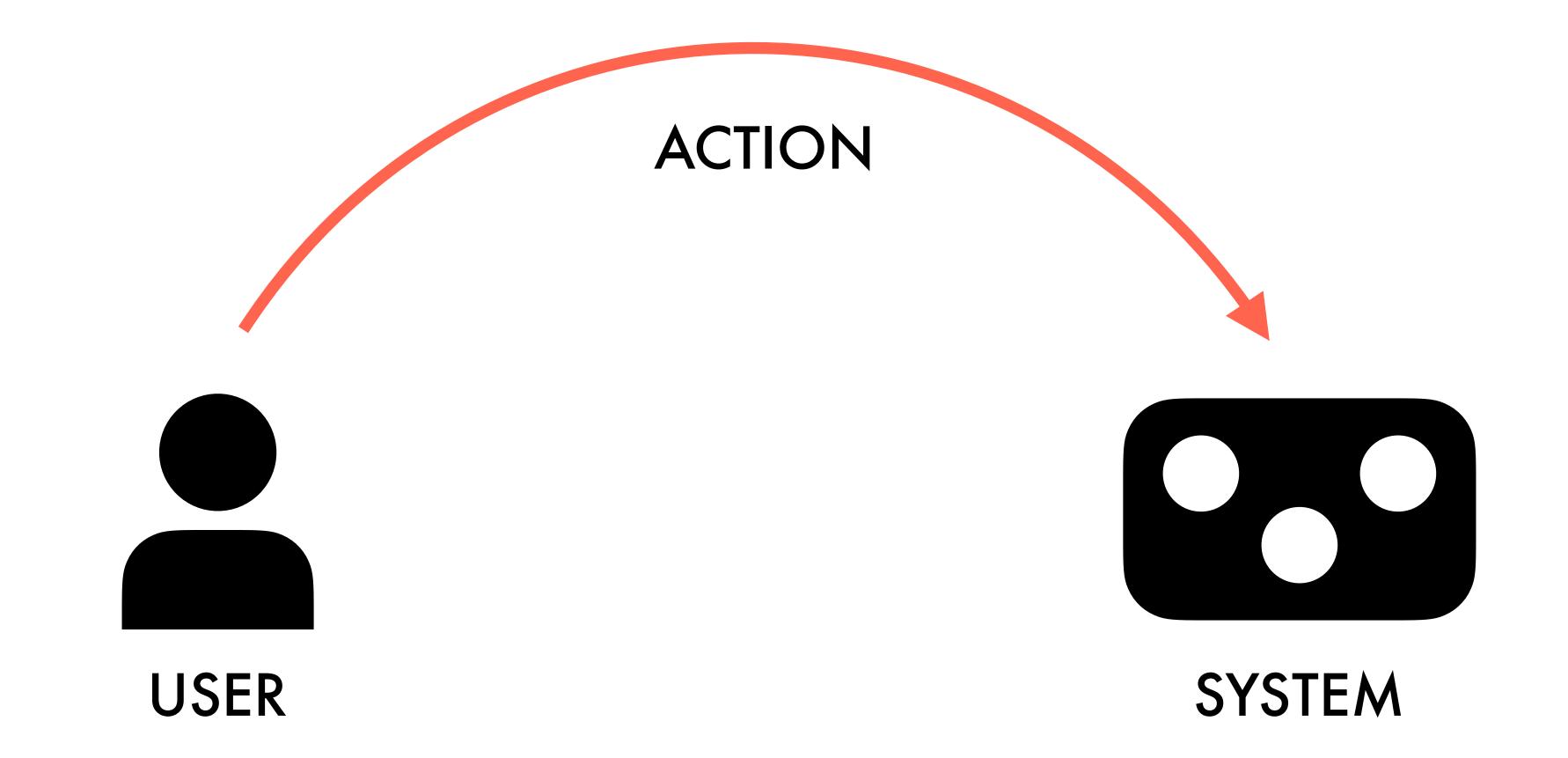
We will read half a chapter from Don Norman's famous book "The Design of Everyday Things". Everyone will explain 2 pages in the order of numbers picked.

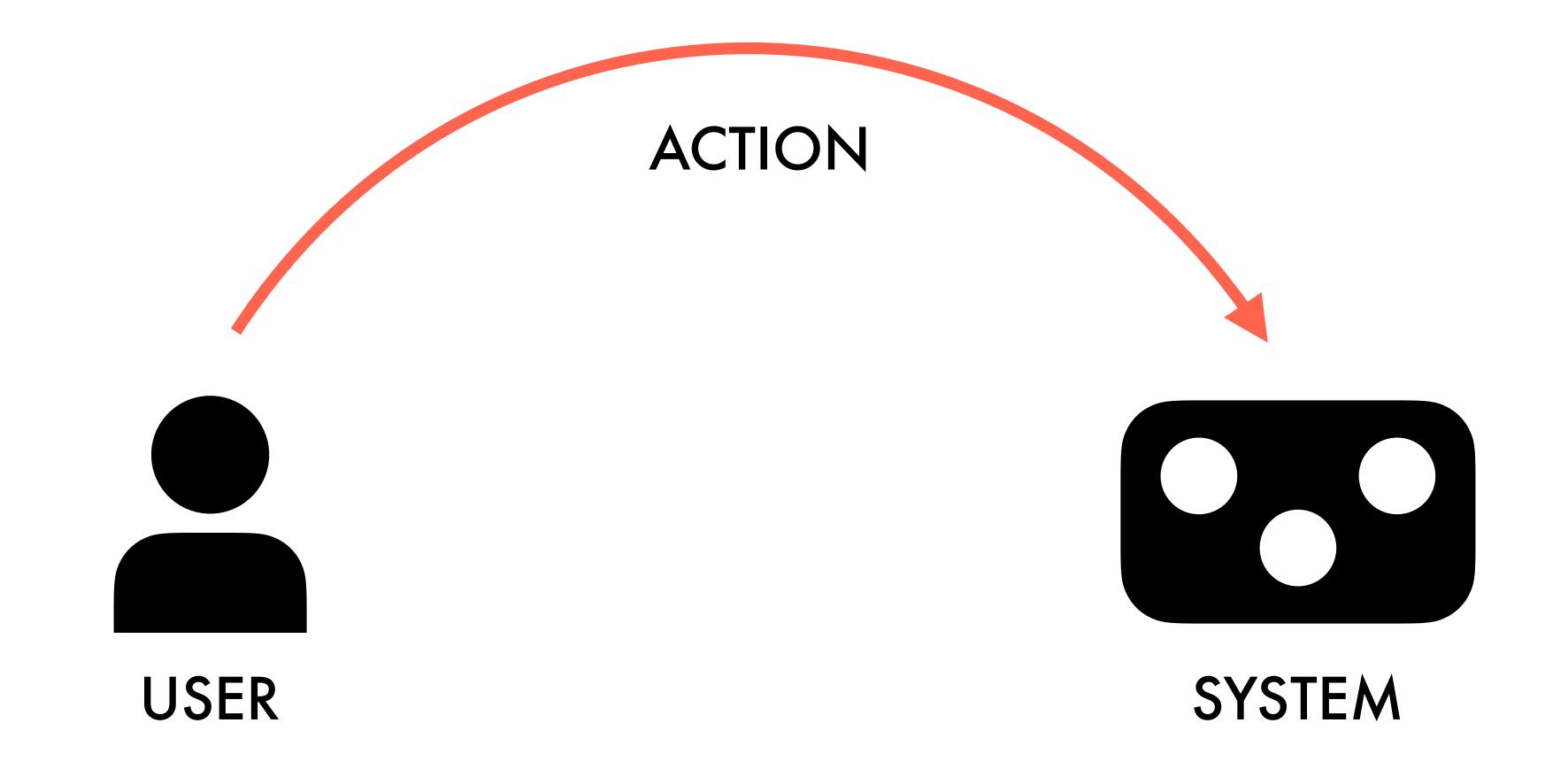
WHAT IS

FEEDBACK?

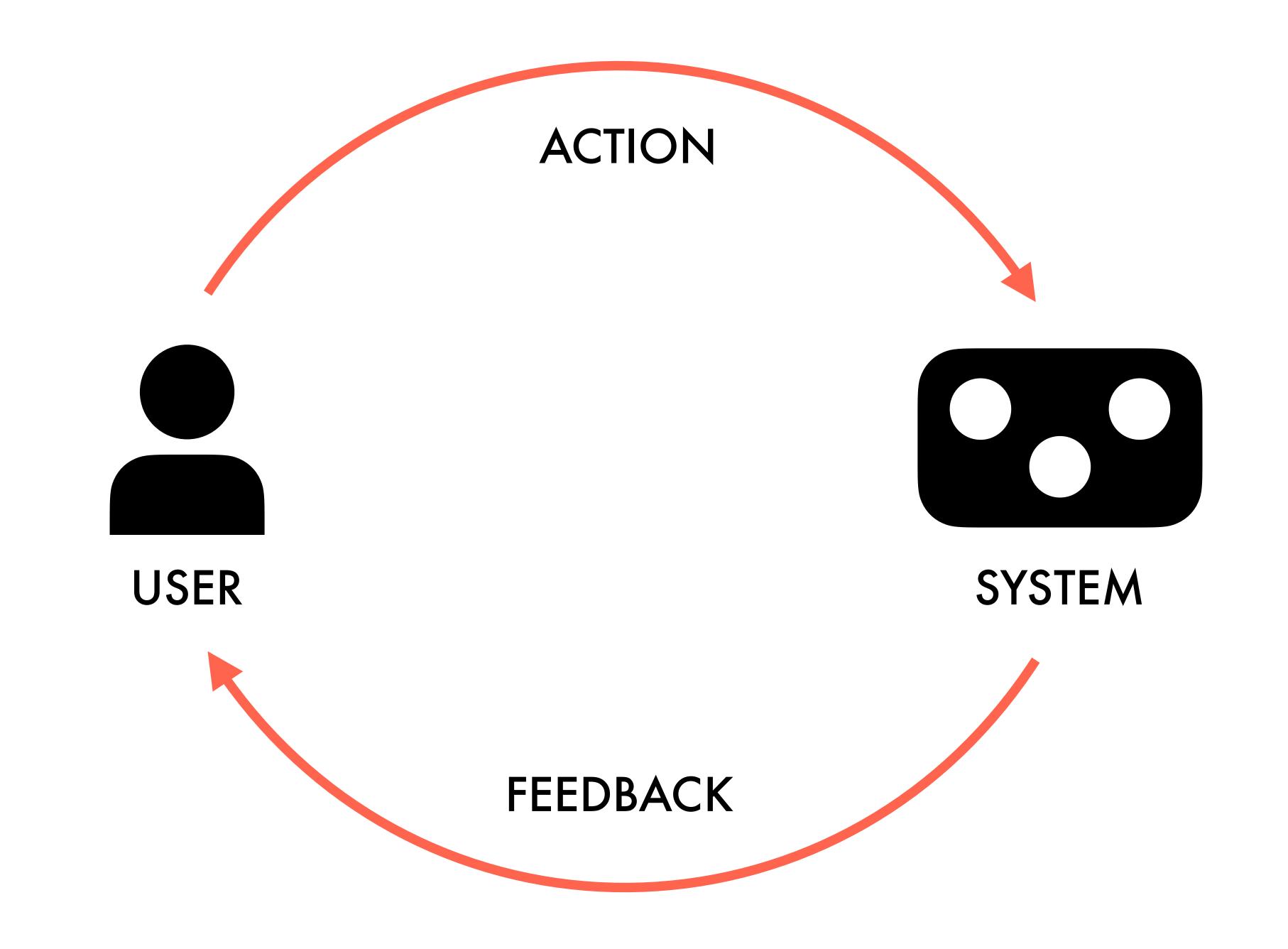


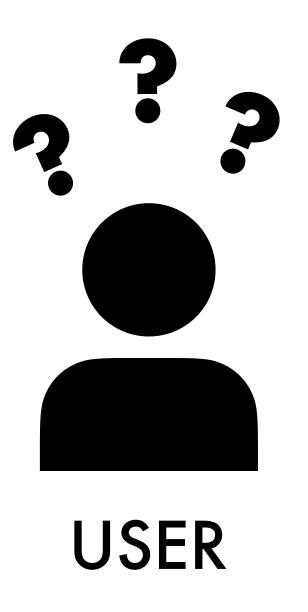






How do I know if the action was successful?



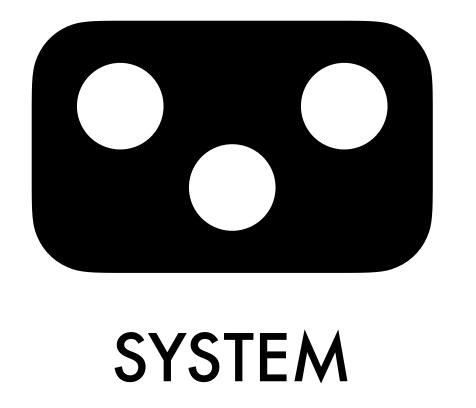


Was my input registered?

Is the system functioning correctly?

WITHOUT FEEDBACK

I heard you!
Here's what's happening now.



WITH FEEDBACK

WHAT IS

FEEDFORWARD?

Signifiers

Cues or signals that communicate where and how an action should be performed.

- A chair's flat seat surface invites you to sit on it
- A blinking cursor in a text box signals you can type.
- An underline on a hyperlink indicates that you can click it

Affordances

The action possibilities of an object — what the object allows you to do.

- A chair affords sitting.
- A button affords pressing.
- A text field affords typing.

Affordances + Signifiers

Together

- Affordance: What can be done.
- Signifier: How you know what can be done.

FEEDFORWARD

Information provided before an action to guide it.

A handle that visually affords pulling, or a button label that tells you what it does.

Reduces the chance of error (by guiding correct action).

FEEDBACK

Information provided after an action.

Clicking a button → it lights up or makes a sound.

Reduces uncertainty after the action (by confirming the outcome).

DISCUSSION

What do you do if something goes wrong?

DISCUSSION

What do you tell a friend when they make a mistake?

DISCUSSION

When is it useful to assign blame? When is it not?



my boyfriend trying to be supportive



Have you used an ATM?



Have you ever left your card in an ATM?



What could help people avoid leaving their cards in the ATM?



Have you ever done this?



Apoorv Shankar <apoorv@invbrain.in>

to me ▼

I forgot to attach the files. Sending u in a few moments.



Apoorv Shankar <apoorv@invbrain.in>

to me ▼

HERE ARE THE ATTATCHMENTS.

•••

What will happen if I send this?

Photos attached

Gyan Lakhwani (gmail.com)

Photos attached

Hi Gyan

I am attaching some photos to print.

Warm regards

Gyan Lakhwani

Partner, Public Knowledge Design Studio

www.publicknowledge.co























Sending without attachments in Gmail triggers a

Photos attached Gyan Lakhwani (gmail.com) Photos attached Hi Gyan I am attaching some photos to print. Warm regards Gyan Lakhwani Partner, Public Knowledge Design Studio

* Public Knowledge Design Studio

www.publicknowledge.co















