

# Paper Prototyping



## Workshop 3

**Ruzanna Chitchyan, Jon Bird, Pete Bennett**  
TAs: Alex Elwood, Alex Cockrean, Casper Wang

# Today's Workshop

- By now your group should have **2 ideas**
- Paper prototype both game ideas, document with video (60mins)
- User feedback (30mins)
- Update your github (10mins)
- Next week you will have **one idea** which you will start developing



# What is Paper Prototyping?

- Paper prototyping is a **user-centred** design method that is widely used in software engineering projects
- Most commonly, it involves the development of user interface mock-ups and drawn sketches which are presented to end users for evaluation
- Can lead to full wireframes and flow diagrams.
- Best done with actual paper – but using a slide deck (PowerPoint prototyping) can also work

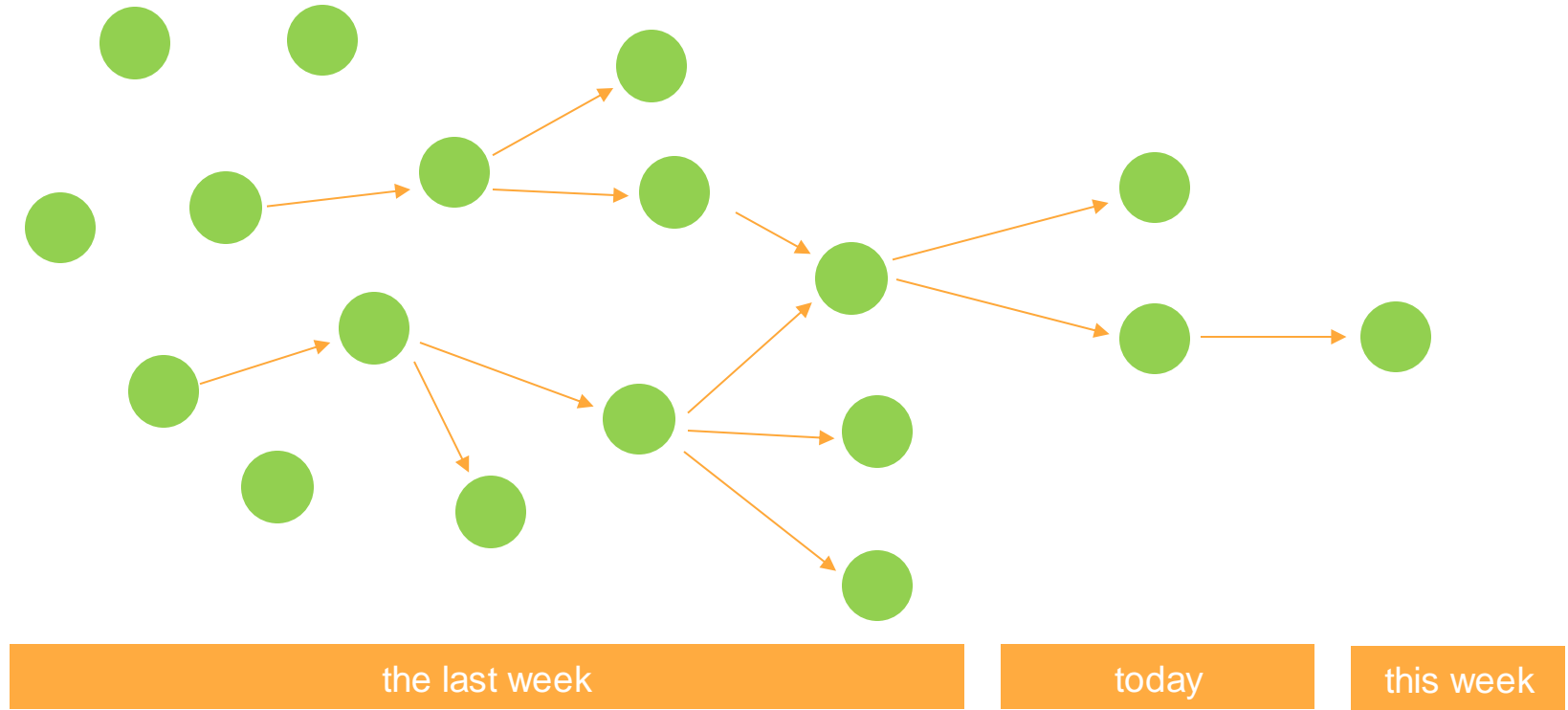


# What is Paper Prototyping?

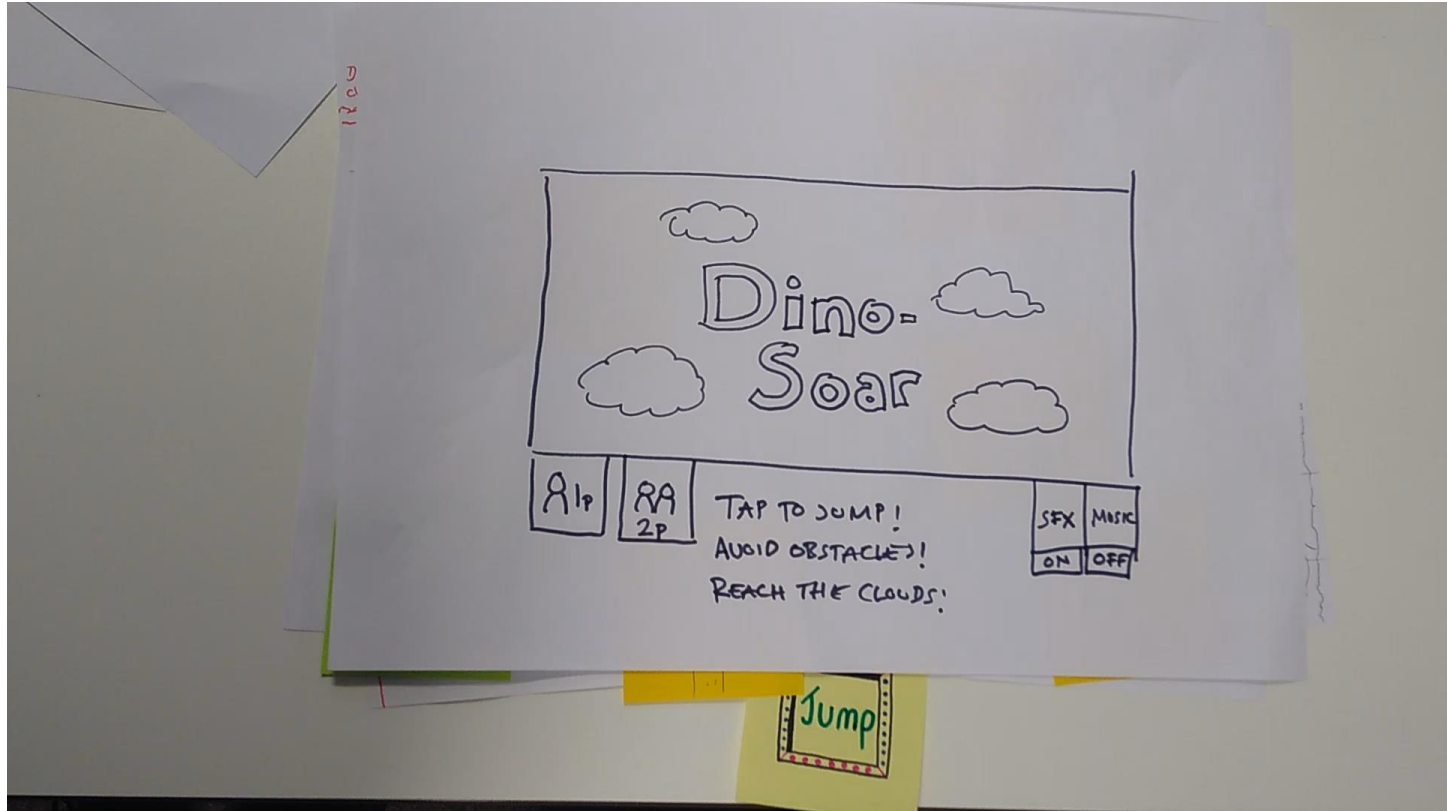
- Paper prototypes are often used at the early stages of projects to provide feedback on:
  - Product concept and goals
  - Logic and flow of user journeys
  - The form of the user interface
- This is a '**cheap**' process!
  - 1 interactive prototype (10h)
  - = 10 video prototype (1h each)
  - = 100 paper prototypes (6 mins each)
  - = 6000 sketches (6 sec each)



# Game idea progress



“prototype a one button game”



try **animation** – add **sounds** – plan for some **different outcomes**

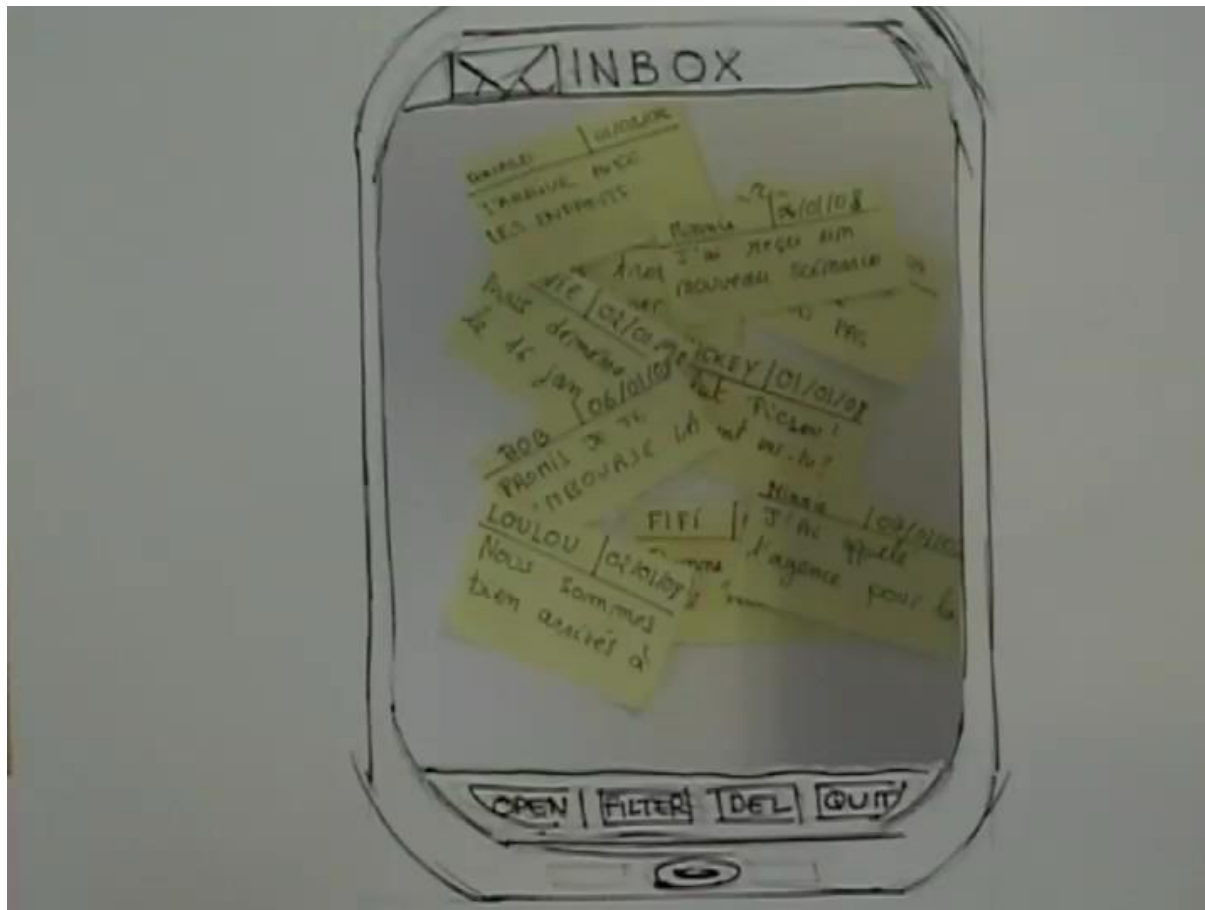
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use **colours** – use **animation**



plan the **story paths** – use **fill-in text**





use **post-it notes** – can use pause **jump cuts** (don't bother today!)



use **device as frame** – make things **larger** than real life to make it easier!

# Why Paper Prototype?

- Quick and cheap design method
- Easy to make instant design change
- *Communication.* Helps the development team and external stakeholders better conceptualise your product and visualise how it will be used
- Helps us to better understand our product and users
- It is a low-investment means of evaluation:
  - Easier for users to give feedback, no fear of causing expensive change
  - Useful for testing multiple ideas or solution variations
- Makes a clearer distinction between conceptual errors and grammatic errors

# Paper Prototype your TWO Games

60  
mins

**Create** a 'working' version of each game in paper  
... the second game may be done in Powerpoint

**Animate** each game in response to user input

**Document** each with a video

## tips:

- use a (thick) **pen**, not pencil
- choose a **single** task to implement
- don't forget (manual) **animation**
- use **placeholder text**
- make devices **larger** than life-size
- make sure that it's **fun**



# User feedback

30  
mins

**Pair up** with the team next to you

**Demo** your two games to the other team and vice versa

## **Give Feedback**

- Did the game concept make sense?
- Did you understand the controls?
- Was there a good twist?
- Are there obvious challenges to tackle (you need to identify three!)
- Which was your favourite and why?



Week	Date	Workshop Monday 09:00-11:00 MVB 2.11 PC	Lecture Monday 12:00-13:00 QUEENS BUILDING, 1.40 PUGSLEY	Groupwork
1	22/01/24	Teams, Project Brief <a href="#">[slides]</a> <a href="#">[project brief]</a> <a href="#">[github intro slides]</a>	Introduction and Process <a href="#">[slides]</a> <a href="#">[materials]</a>	Research games, create list on team repo. Install Processing
2	29/01/24	Intro to Processing <a href="#">[slides]</a>	Agile Software Development <a href="#">[slides]</a>	Decide on two game ideas
3	05/02/24	Paper Prototyping, Agile Techniques, Ideas Clinic <a href="#">[slides]</a>	Requirements Engineering <a href="#">[slides]</a> <a href="#">[materials]</a>	Collect requirements. Decide on final idea
4	12/02/24	Requirements <a href="#">[slides]</a>	Object Orientated Design <a href="#">[slides]</a> <a href="#">[materials]</a>	Add requirements section to report
5	19/02/24	Classes Activity, Mock test, Game jam, Summer project prep <a href="#">[slides]</a>	Software Quality and Testing <a href="#">[slides]</a> <a href="#">[materials]</a>	Develop a working prototype over reading week!
6	26/02/24	GAMES JAM	READING WEEK	
7	04/03/24	IN CLASS TEST (assessing lectures 1-4); Testing <a href="#">[slides]</a>	Project Management <a href="#">[slides]</a> <a href="#">[materials]</a>	Define team roles, Estimate sprint effort with planning poker
8	11/03/24	Planning Poker <a href="#">[slides]</a> <a href="#">[heuristic evaluation sheet]</a>	HCI Evaluation Part One <a href="#">[slides]</a>	Write up evaluations from workshop. Plan qualitative assessment (of your choice). Add <u>two difficulty levels</u> to your game.
9	18/03/24	Think Aloud and Heuristic Evaluation <a href="#">[slides]</a>	HCI Evaluation Part Two <a href="#">[slides]</a>	Add quantitative assessment (of your choice) to report
	25/03/24	SPRINT 1	EASTER week 1	
	01/04/24	SPRINT 2	EASTER week 2	
	08/04/24	SPRINT 3	EASTER week 3	
10	15/04/24	HCI Quantitative Task	Software Engineering Extended - Sustainability <a href="#">[slides]</a> <a href="#">[materials]</a>	Develop Game
11	22/04/24	IN CLASS TEST (assessing lectures 5-9)	Coursework Feedback Discussion of marking scheme <a href="#">[slides]</a>	Finish Report
12	29/04/24	Game Demo Day <b>Monday 29th April 9am-11am</b> , MVB 2.11 Demonstrate your game. Markers will have a strict 5min window to assess your game, be ready to allow 1-2mins of gameplay and 2-3mins of answering questions.	Feedback on in-class tests (tbc)	Submit Report + Video to Blackboard <b>Thursday 2nd May 1pm</b> Submit entire repo as a single zip file to Blackboard. Make sure link to video is clearly displayed at top of repo. We prefer that you have the video on a streaming service of your choice and not contained within the repo so that we're not having to download video files.

# homework / groupwork

- Decide on one game idea!
- Update / improve video sketch/prototype as required
- Your Github team page will have:
  - Your names
  - Team photo
  - List of inspiration and initial ideas
  - Your two paper prototype ideas
  - Your final idea (one paragraph + paper prototype images/video)

