Industry Concepts

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≡ Note	Created for and by a pack of fighting mongooses (take with mucho salt)
👥 Stakeholders	
⊙ Status	
⊙ Type	

Wire-framing

- wire-framing is the process of mapping out the design of a website and is used to;
    - plan the implementation of code, helping to ensure clarity and efficiency
    - contractually agree functionality and aesthetics with a client
- Many programs exist to help, but Figma seems the best and is free
- **low-fidelity** wire-frames can be handwritten or drawn on a white background
    - made of simple boxes and buttons
    - they focus on the layout and basic functions rather than styling
- **high fidelity** wire-frames look exactly how the website should will in the end
    - they employ custom fonts, contain full images and proper colours etc.
    - usually produced professionally by a Graphic / UI / UX designer
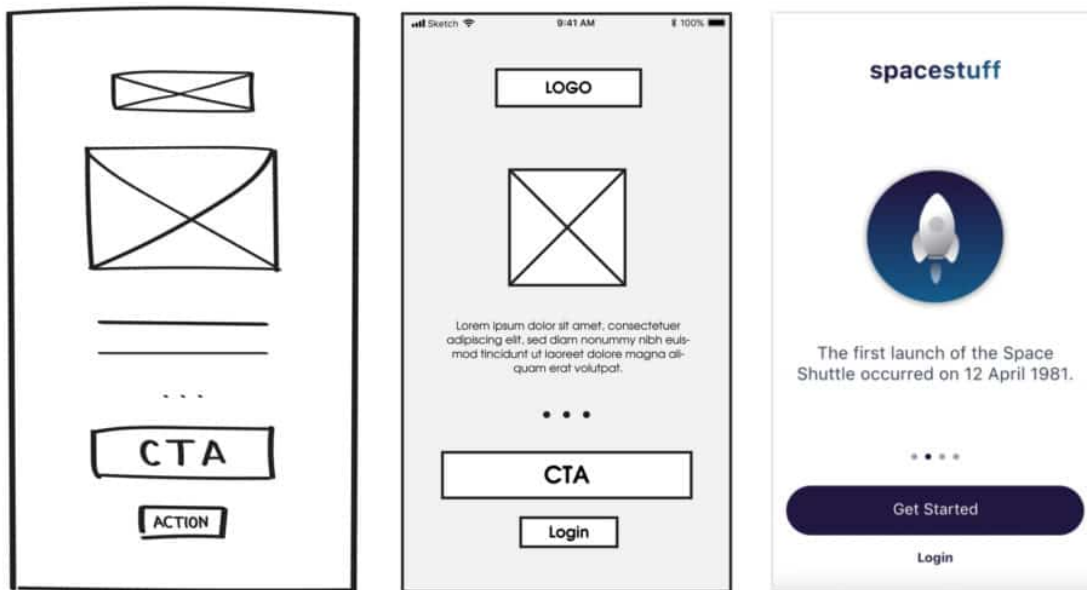
Pair Programming

- 2 developers working on 1 computer together

- **driver** - the person writing the code

- **navigator** - the person making suggestions

- periodically they will switch roles

- works best when navigator is the more experienced or confident developer

- driver needs to ensure they understand everything they type

- **benefits**

  - 2 sets of eyes and two brains on the code - more likely to spot mistakes and include novel or more efficient ideas

  - working while being observed helps to maintain code quality standards

  - more people in the team understand the code - prevent *knowledge silos*

  - helps juniors to learn

- **drawbacks**
  - perceived as waste of resources by management (non-technical staff)
  - if the work is wrong on goes unused then double effort has been wasted
- **Ask you interviewer** if they implement it - see if you want to join the company

Rubber Duck Debugging

- A way to discover a solution to a problem by articulating it to an inanimate object
  - get yourself a rubber duck
  - name it, shame it, make sure it knows who's boss
  - explain your problem in ways the duck can understand, ensuring no detail is missed
  - during this process you will likely solve the problem you had in the first place
  - now throw the duck at the wall to ensure it doesn't get a bit up itself

Standup

- A short meeting at the start of each day to allow reflection on the previous working day
  - What did you enjoy?
  - What did you not enjoy?
  - What would you like to go over again?
  - Any other business?

Code Review

- whenever a new version of code is written, someone else must read through it in detail to ensure no mistakes have been made

- the code reviewer is attempting to ensure best practices and catch bugs

- for critical sections of code, multiple reviewers may be required

- **benefits**
    - massively improved quality of code
    - more bugs can be identified and fixed before going live
    - prevents the formation of code silos
    - good learning opportunity for less experienced devs

- **reviewing criteria**
    - correct and consistent indentations, spaces, hex codes, etc
    - semantic class names used appropriately
    - consistent naming scheme
        - camelCase
        - kebab-case
        - snake_case
    - approach to the problem - is it a hack or an elegant solution?
    - ensure logic and functionality is stable - failing automated unit tests indicates the project is not ready for code review
    - cross-browser testing (for any browsers officially supported by the project)

- **core skills**
    - kindness and diplomacy are important when pointing out others mistakes
    - thoroughness is required, if a bug makes it to a live website it is partially on the reviewer
    - willingness to learn from others example of code

Building an Online Presence

- the tech sector is very internet based and humans are social creatures. Build an online presence to exploit this to the advantage of your career ^_^

    - LinkedIn - online CV - put a picture

    - Twitter - is good for jobs etc but too evil to consider

    - Github - good to have a public account full of projects to showcase your code

    - Medium / dev.to - nerd blogging to demonstrate your ability to understand and explain

    - customer website - take over the world