

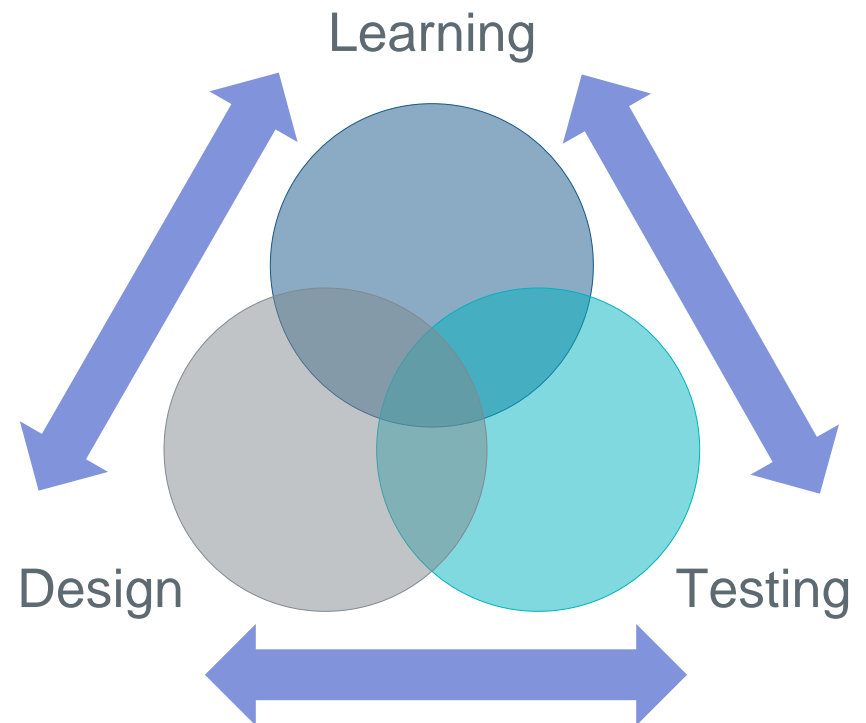


# Mind Map Driven Heuristic Exploratory Testing

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# What is Exploratory testing?

- Approach
- Mindset
- Learning, Design and Testing



# Heuristics

- Rule of thumb
  - "Early bird catches a worm"
- Heuristics are applied, not followed.
- Checklists, memory rules
- Feelings
- An educated guess
- Common sense



<http://www.coloring-pictures.net/drawings/Homer/Homer-Jay-Simpson-is-thinking.php>

# Models and product elements

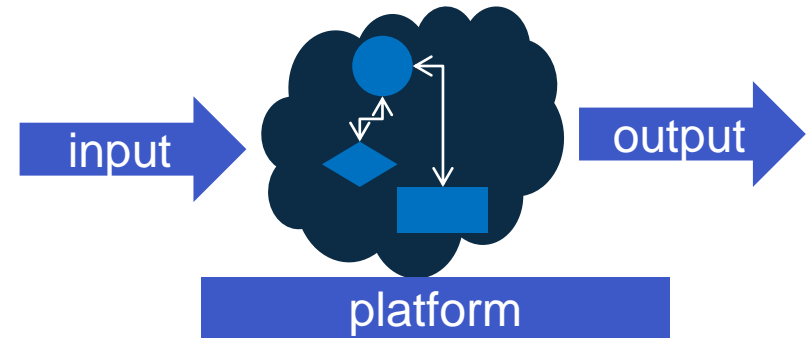
- Models a way of measuring coverage



- Mnemonic SFDPOT

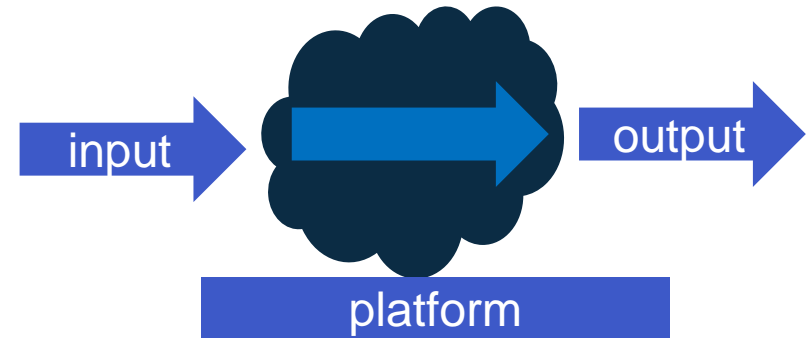
# Structure

- What is this made out of?
  - Physical structure
    - Devices, cables
  - User interface structure:
    - Menus, dialogs, buttons, input fields
  - Code structure
    - Files, modules, classes, methods, lines



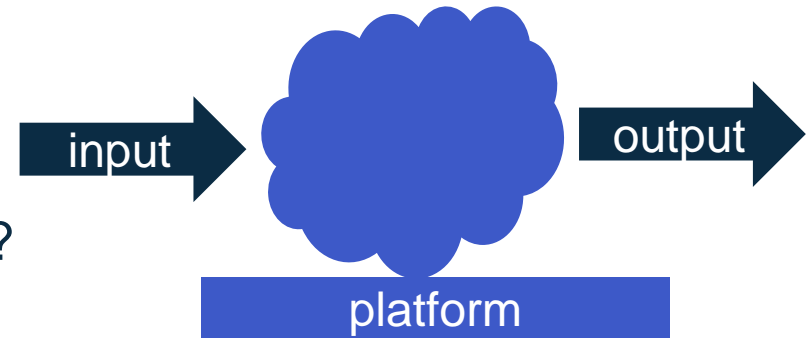
# Functions

- What does it do?
  - What are the features?
  - How do you control it?
  - What's in the menus?
  - How about keyboard/mouse only?
  - Are there cross functionalities?



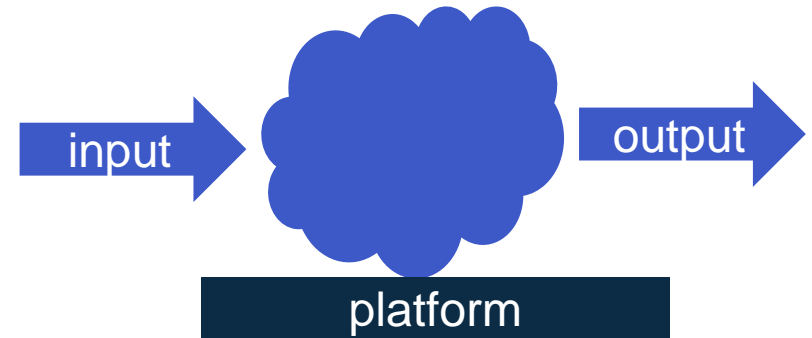
# Data

- What it does the functions to?
- What are the boundaries?
  - What are the REAL boundaries?
- Can you automate inputs?
- Can you assert the outcome?
- Can you test the output values?



# Platform

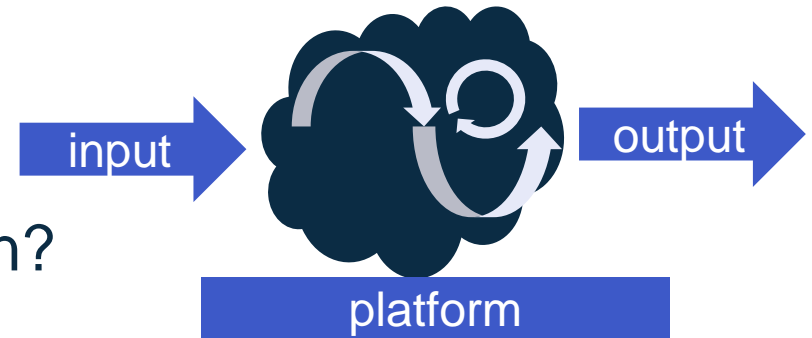
- What does it depend upon?
  - Operating systems
  - Hardware, devices
  - External/Internal software
- Can you take it outside lab? Unsanitary platform?
- Oddball?
  - Out-of-the-shelf installed toolbars, browsers, etc.
- Can you automate environment setup?
  - Snapshots, scripts, tools





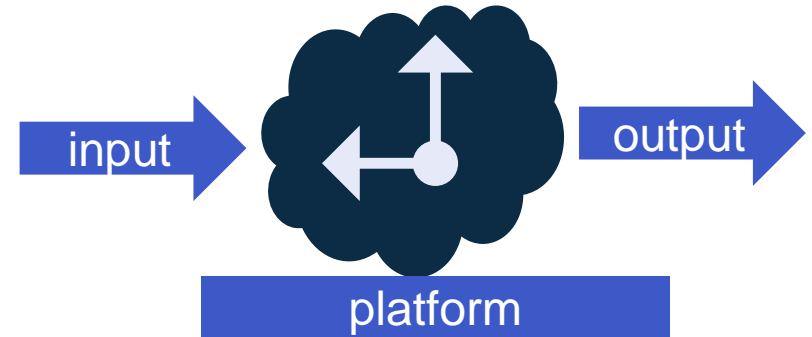
# Operations

- How is it used?
  - What are the defaults?
  - What is the realistic situation?
    - What is the business process?
  - Who is the user?
  - Use complex flows, skipping steps, going back, looping
  - Can you stress the system?



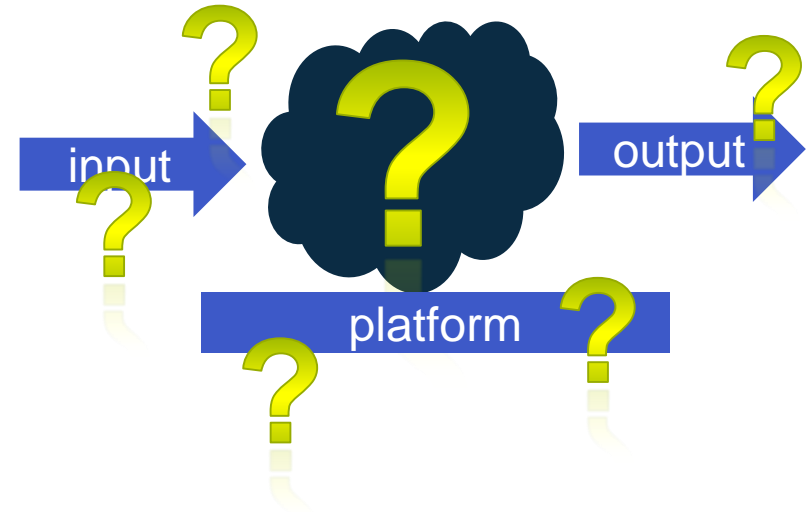
# Timing

- How time affects it?
  - Data flow
    - Buffering, blocking, timeout
  - Usage amount
    - End of quarter, end of week, business day
  - Rates
    - Hits per second, speed, frequency
  - Relationship
    - Before, after, during, slower, faster



# Risks

- Are there risks involved?
  - What are the potential areas for failure?
  - What are the internal risks?
  - What about the external?
  - What do we need to take into account?
  - Can we mitigate?
  - What is the impact?



# Bugs

- Does it work differently than you expected?
- Can it **bug someone who matters?**
- Does it conflict with something known?
  - Documents, claims
  - Expectations, statures
  - Comparable products, itself
- It this a known/recurring issue?
- Who has more knowledge in this?



# Get your mind maps out and go to

[http://www.horse-games.org/Horse\\_Lunge\\_Game.html](http://www.horse-games.org/Horse_Lunge_Game.html)

Or Google "Horse Lunge Game"

# Before you go...

I believe that you  
succeeded in these...

To make this even better,  
you should think of the  
following...

# Thank you!

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