# DATA FLOW DIAGRAMS

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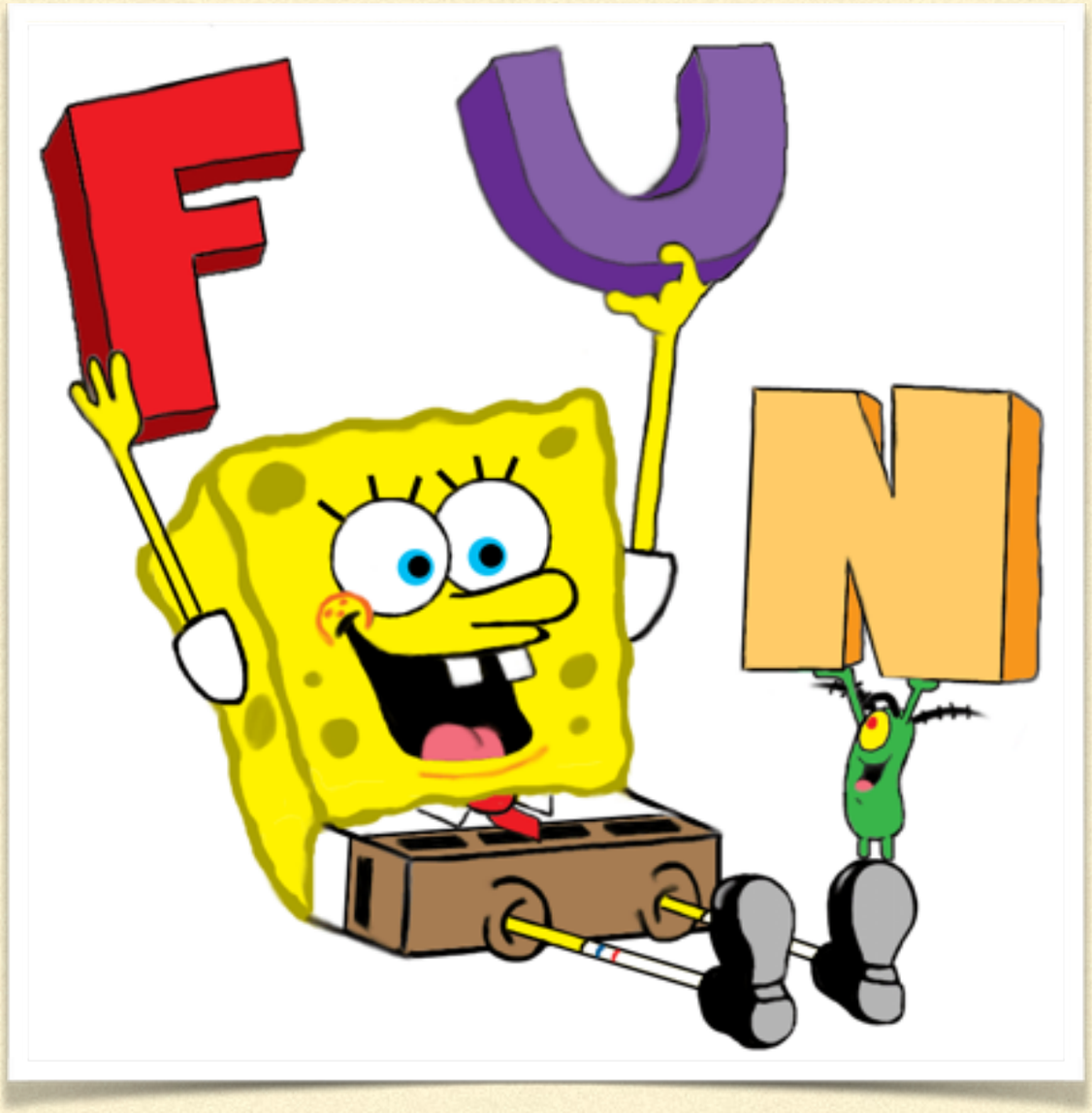
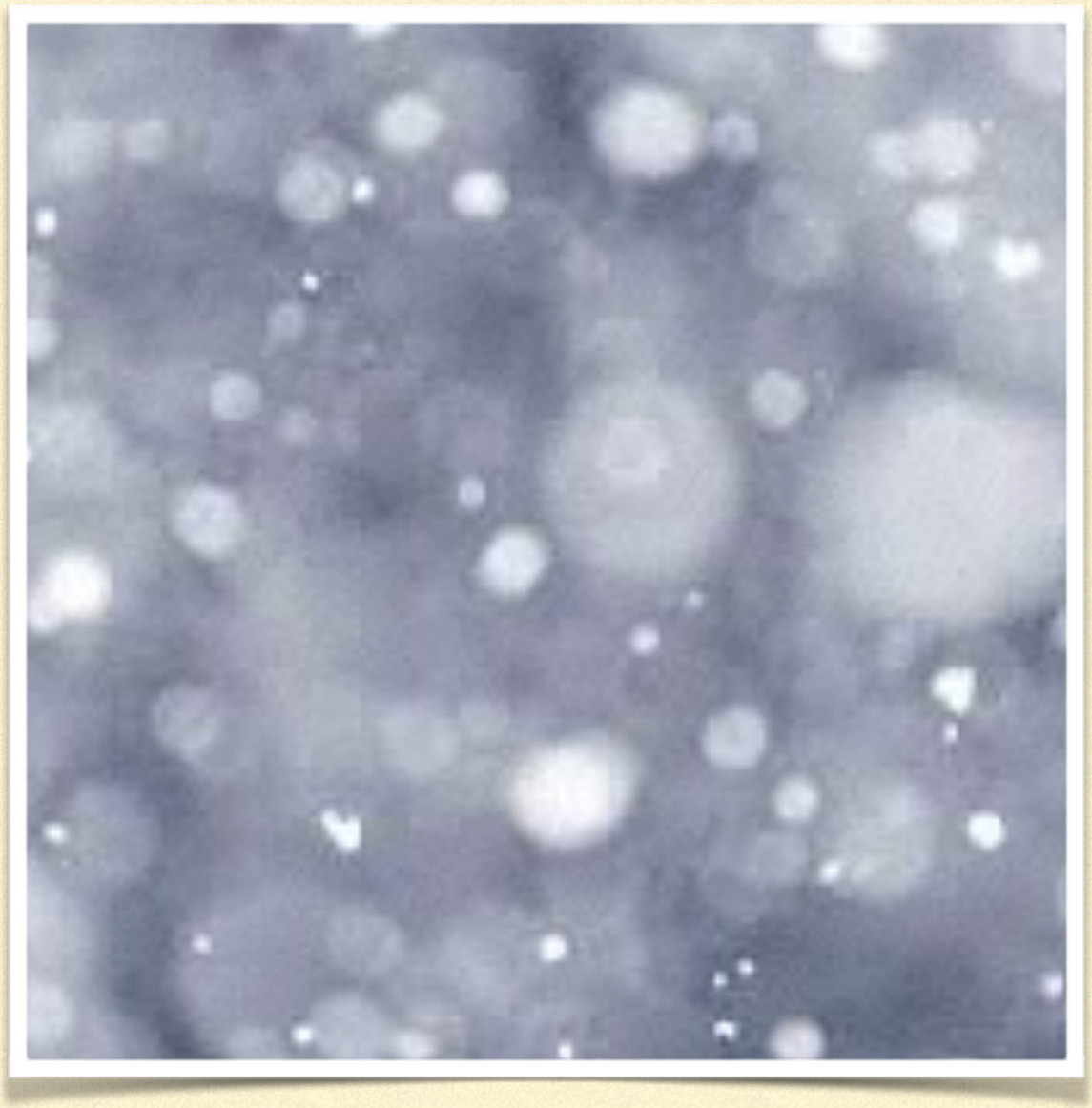
ISQA3420




# WHO WANTS TO HAVE SOME FUN?

# DATA FLOW DIAGRAMS



- They are the flow of data. Nothing more, nothing less.
- They are a pain to make but once they are made, they are very explicit and helpful in the development process

# THE DIAGRAM ELEMENTS

Entities

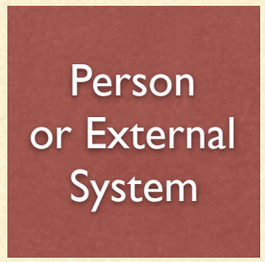
Processes

Data Flows

Data Repositories

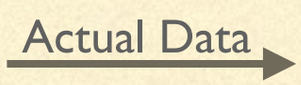
# THE DIAGRAM ELEMENTS

Entities




Processes

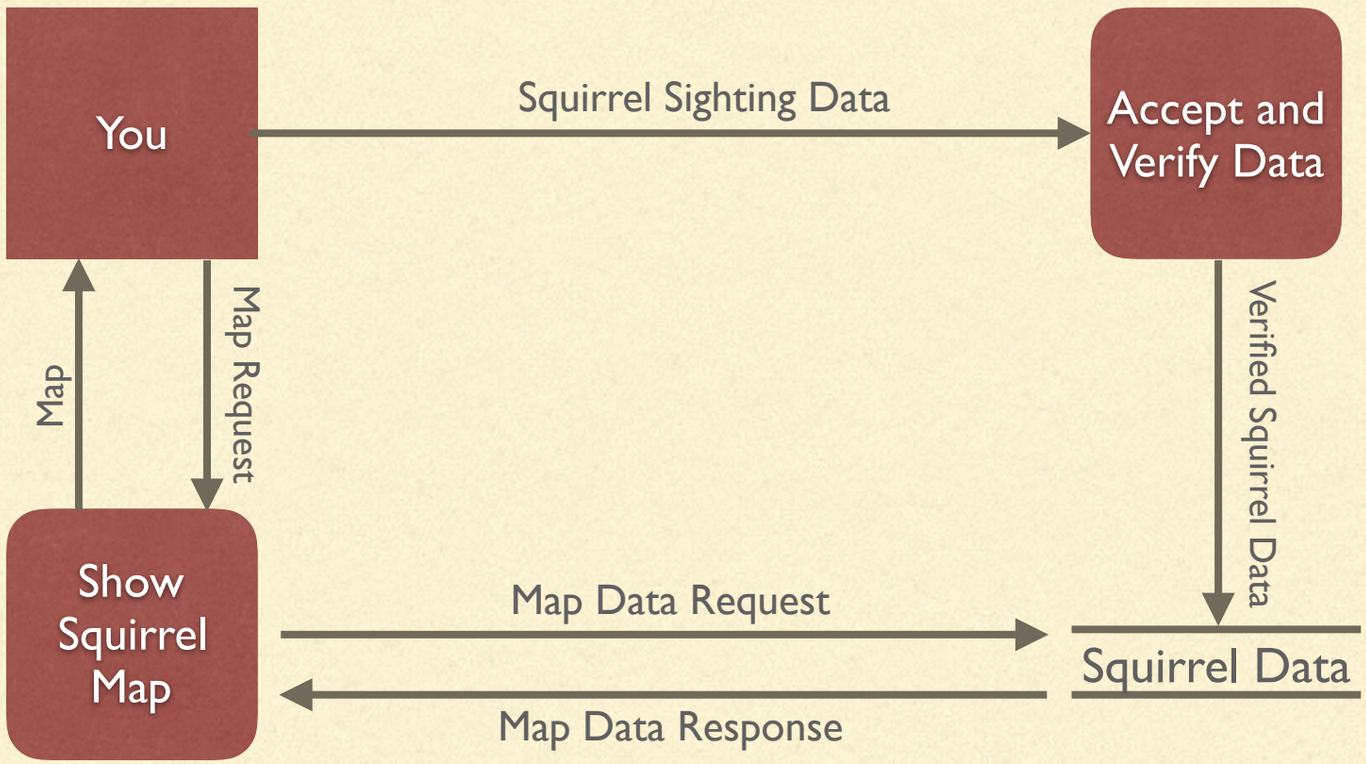
Data Flows



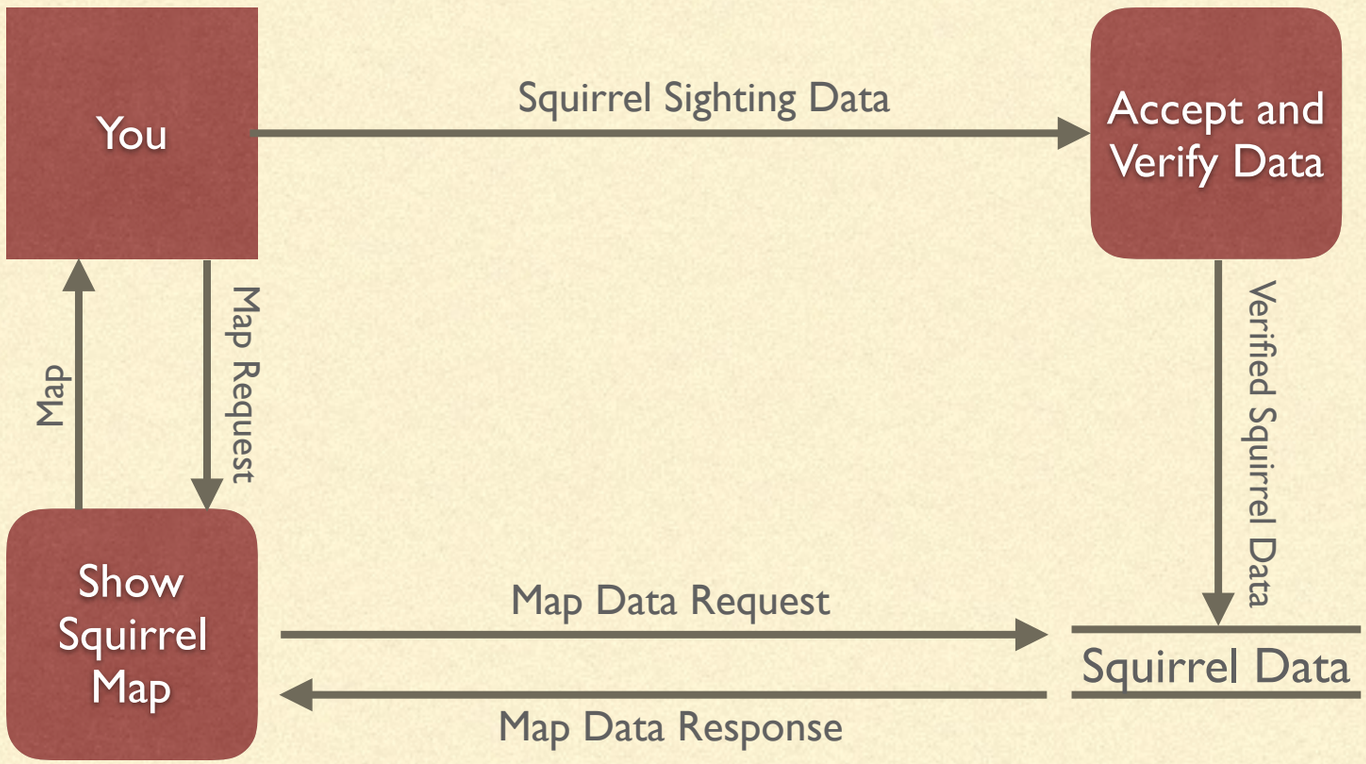

Data Repositories

# SQUIRREL PROJECT

- Observe and identify a squirrel
- Send the results to the squirrel project
- Observe results on an interactive map
  - Type of squirrel
  - Location of squirrel
  - Date/time of sighting


You
Squirrel Sighting Data
Accept and Verify Data
Map
Map Request
Verified Squirrel Data
Show Squirrel Map
Map Data Request
Squirrel Data
Map Data Response

# Level 0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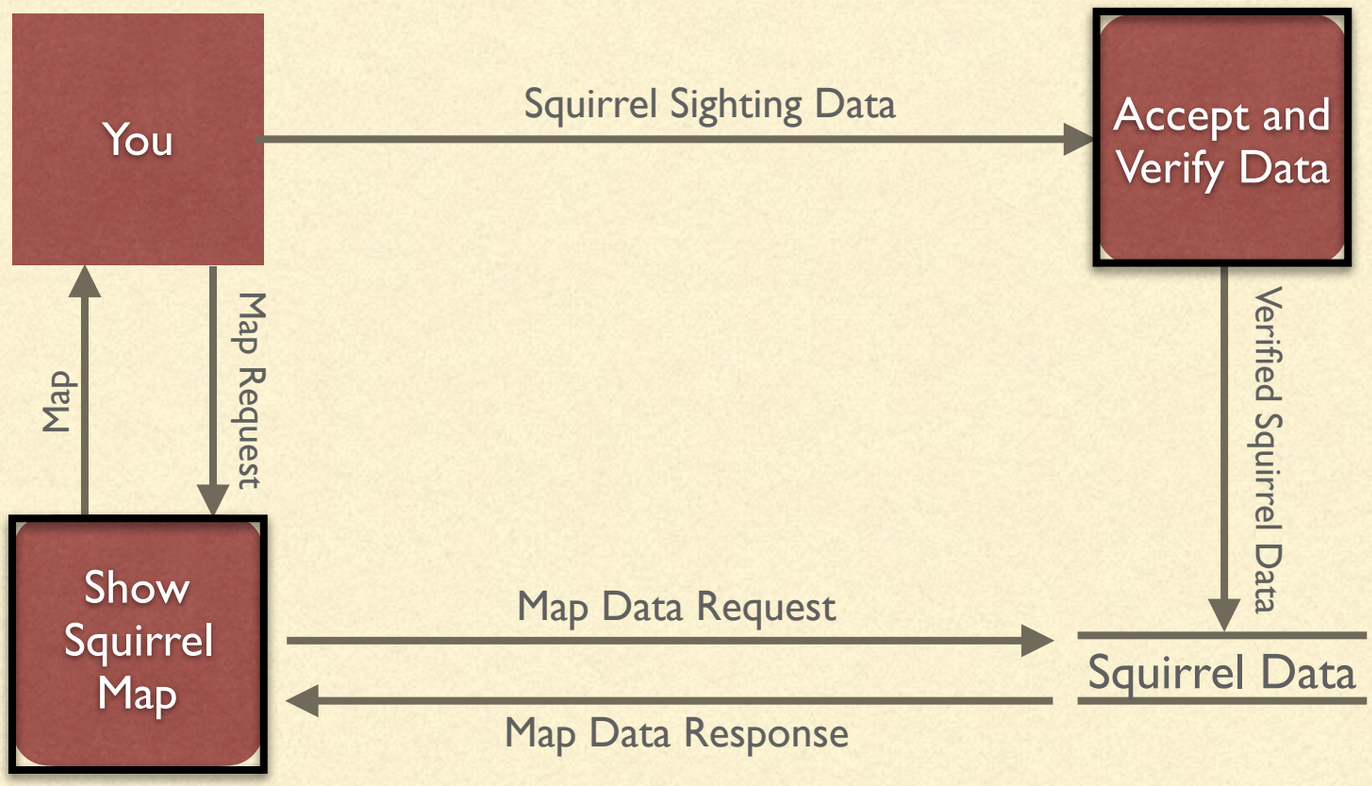
You
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Show Squirrel Map
Map Data Request
Squirrel Data
Map Data Response

Accept and Verify Data

Accept Data

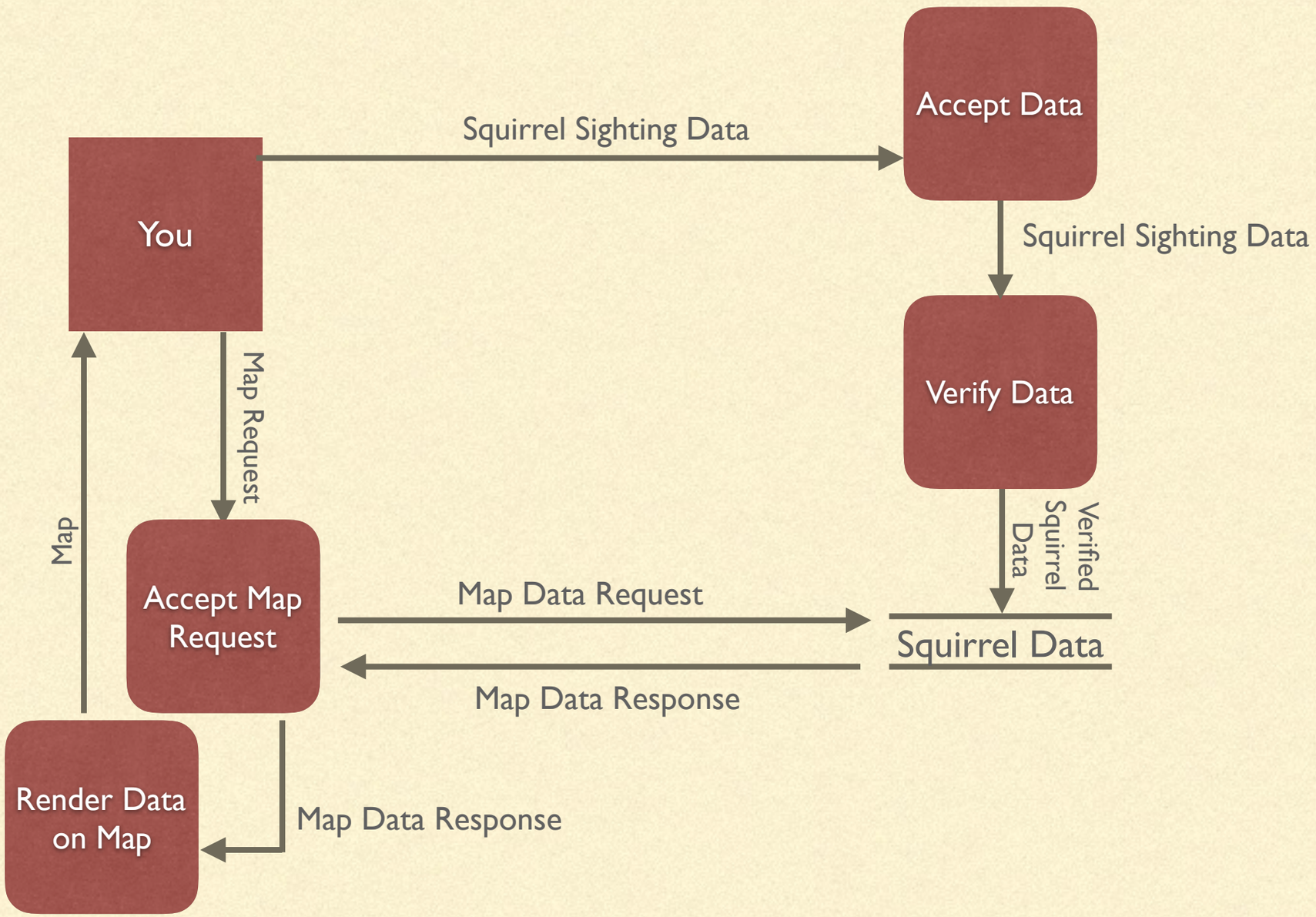
Verify Data

Show Squirrel Map

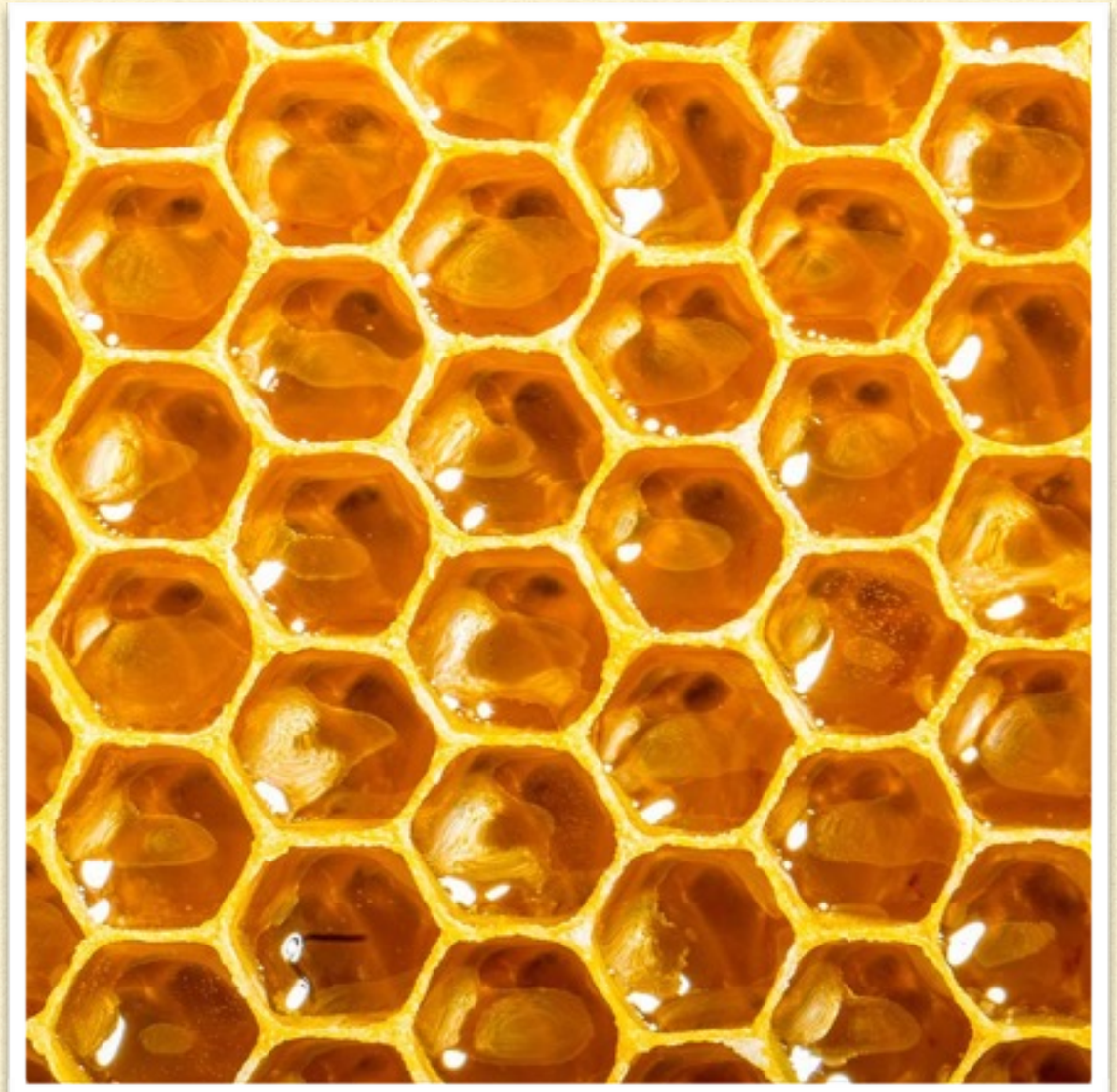
Accept Map Request

Render Data on Map

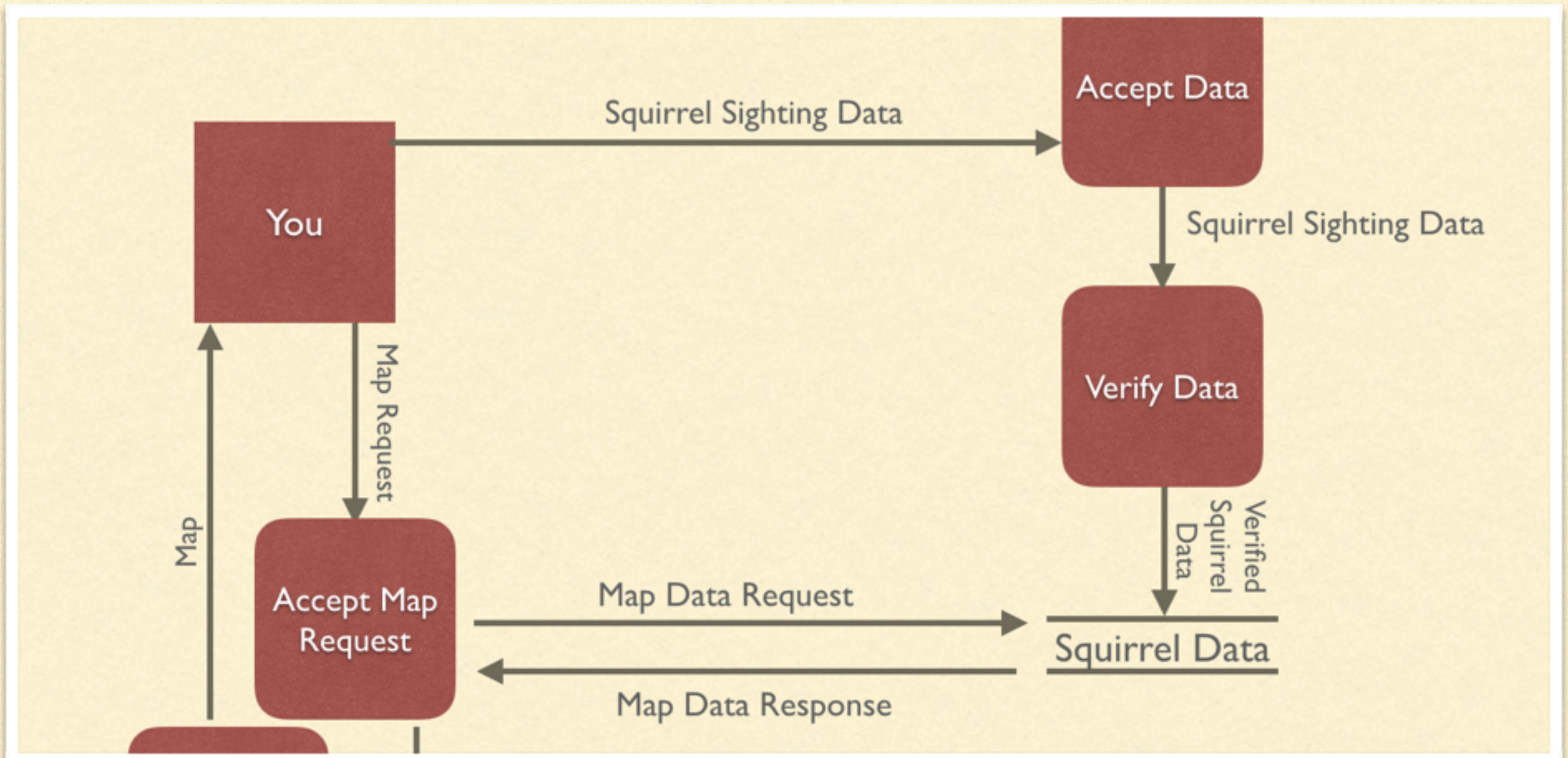
# Level 1


You
Squirrel Sighting Data
Accept Data
Squirrel Sighting Data
Verify Data
Verified Squirrel Data
Squirrel Data
Map Request
Map
Accept Map Request
Map Data Request
Map Data Response
Render Data on Map
Map Data Response

# NOTES ON THE DFD



- The arrows are data, not processes (do not use verbs).
- If the data is not transformed in a process it should be the same name coming in as going out of a process
- You can break down processes for a long time. As you do this, there are likely corresponding changes with the data flows.




# GET THIS IMAGE UP TO GITHUB

Use the approach I just showed you. Make sure you close your issue too.

Send me an email with a link to your repo by Friday September 2nd so that I can see you uploaded this image and opened/closed an issue (+1 points)

# HAVE A GREAT WEEKEND!!