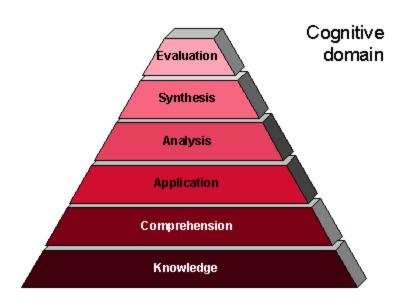


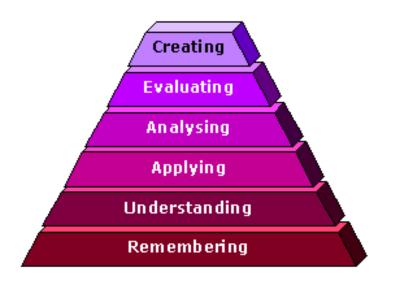
### **Testing Tasks and Bloom's Taxonomy**

A work in progress



# The Taxonomy





Bloom's original taxonomy

Revised taxonomy of the cognitive domain following Anderson and Krathwohl (2001)

\* Graphics from http://www.learningandteaching.info/



## The Taxonomy

#### Bloom's Taxonomy

	The Cognitive Process Dimension									
The Knowledge Dimension	Remember	<u>Understand</u>	<u>Apply</u>	<u>Analyze</u>	<u>Evaluate</u>	<u>Create</u>				
<u>Factual</u> Knowledge	<u>List</u>	Summarize	Classify	<u>Order</u>	Rank	Combine				
Conceptual Knowledge	<u>Describe</u>	Interpret	Experiment	Explain	Assess	<u>Plan</u>				
Procedural Knowledge	<u>Tabulate</u>	<u>Predict</u>	<u>Calculate</u>	<u>Differentiate</u>	Conclude	Compose				
Meta- Cognitive Knowledge	Appropriate <u>Use</u>	<u>Execute</u>	Construct	<u>Achieve</u>	Action	<u>Actualize</u>				

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### The Taxonomy

**Remembering**: Retrieving, recognizing, and recalling relevant knowledge from long-term memory.

**Understanding**: Constructing meaning from oral, written, and graphic messages through interpreting, exemplifying, classifying, summarizing, inferring, comparing, and explaining.

**Applying**: Carrying out or using a procedure through executing, or implementing.

**Analyzing**: Breaking material into constituent parts, determining how the parts relate to one another and to an overall structure or purpose through differentiating, organizing, and attributing.

**Evaluating**: Making judgments based on criteria and standards through checking and critiquing.

Creating: Putting elements together to form a |coherent or functional whole; reorganizing elements into a new pattern or structure through generating, planning, or producing.

(Anderson & Krathwohl, 2001, pp. 67-68).

Creating

Evaluating

Analysing

**Applying** 

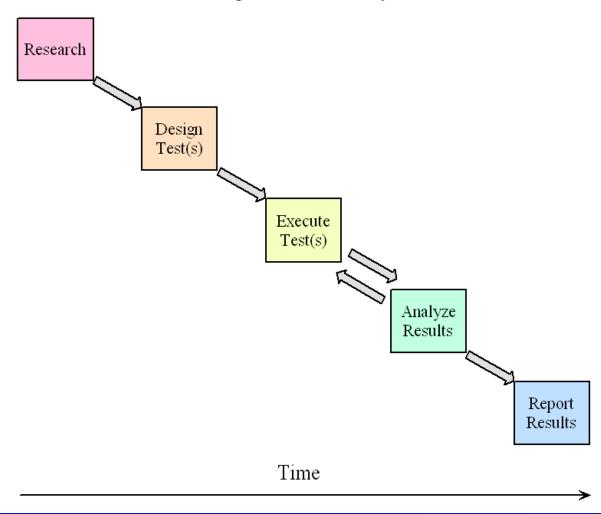
Understanding

Remembering



#### **Waterfall**

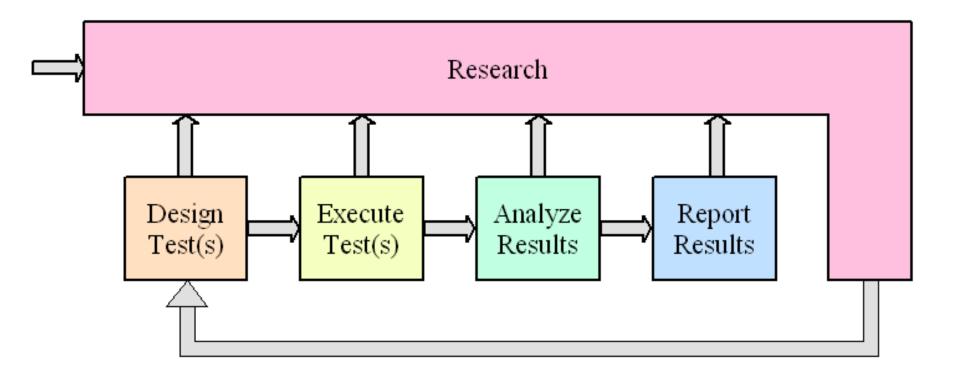
Testing, Waterfall-Style





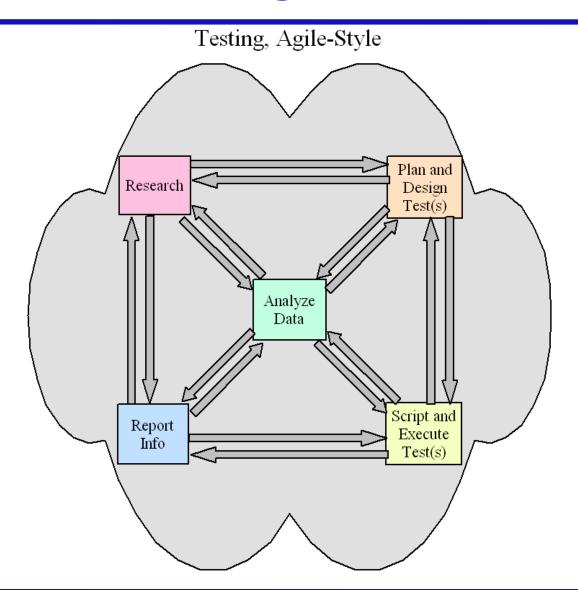
#### **Iterative**

#### Testing, Iterative-Style





# **Agile**





# **Rough Mapping - Draft**

		Activities		Artifacts		Skills	Taxonomy				
Research	•	Read Documents	•	Notes	•	Read					
	•	Interview Stakeholders		Sketches	•	Interview					
	•	Use Competitors	•	MindMaps	•	Use	Remembering				
	•	Observe Users	•	Use Cases	•	Observe					
	•	Use Application	•	Usage Models							
Design	•	Create Plans/Strategies	•	Test Cases	•	Classify					
	•	Choose Techniques	•	Test Plan	•	Identify					
	•	Generate Data	•	Test Strategy	•	Group	Understanding				
	•	Script Tests	•	Test Data	•	Document					
	•	Identify Risk	•	Test Scripts	•	Scripting					
	•	Classify Test Areas	•	Risk Assessment							
	•	Run Tests	•	Notes	•	Interpret					
Execute	•	Interpret Results	•	Results	•	Demonstrate	Applying				
	•	Prioritize Tests	•	Defect Reports	•	Choose	Applying				
					•	Script Execution					
	•	Evaluate Results	•	Notes	•	Question					
Analyze	•	Question Tests	•	Findings	•	Differentiate	Analyzing				
	•	Differentiate Symptoms from Causes	•	Defect Reports	•	Consolidate					
	•	Compare w/ Previous Results	•	Trends	•	Compare					
					•	Discriminate					
					•	Interpret					
Report	•	Document Results	•	Reports	•	Evaluate					
	•	Create Presentations		Charts & Graphs	•	Defend	Evaluating				
	•	Make Recommendations	•	Emails	•	Judge					
	Notes by SDLC Type										
	•	Sequential approach limits tester's abilit			rove 1	testing					
	•										
	•	Most tester learning is applied between iterations									
	•	Variable opportunities for informed creation based on speed of iterations									
	•	Any task or cognitive skill can be applied at any time									
	•	Maximizes testers ability to create at any point during the project									



#### **Questions**





#### **Contact Info**

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