Javascript THM Template (Reference sheet)

Public members	Description				
.boolSimulate	Boolean flag set by the template. True means the demo is running on				
	the local server and false means the demo is running on the				
	MonocleCAT website				
.plugin	Memory reference to the plugin object for internal modification				
.width	Integer of the width of the plugin which is passed in from the				
	constructor call				
.height	Integer of the height of the plugin which is passed in from the				
	constructor call				
.travelTime	Number the amount of time in seconds it takes for a panel to extend				
	or retract				
.funcExploreInit	Obsolete Function pointer an obsolete way of initiating explore				
	mode use .scnExplore.initQuiz function pointer instead				
.funcExploreCleanUp	Obsolete Function pointer an obsolete way of cleaning up explore				
	mode use .scnExplore.cleanUp function pointer instead				
.scnExplore	Scene pointer the explore mode scene. For explore to work you must				
	set the .boolExplore flag to true				
.boolExplore	Boolean flag set by the developer for enabling explore mode. If true				
	the demo starts in explore mode and if false the demo starts at				
	question one.				
.boolExploring	Boolean flag set by the template. If true then the user is currently in				
	explore mode otherwise the flag is set false				
.expLayer	Obsolete Memory reference which is an obsolete layer created by				
	plugin for drawing explore mode in the correct z-order				
.scnLast	Memory reference to the last scene.				
.numTimeStart	Integer for the start countdown for the obsolete step timer				
.numTimeLeft	Integer for the time left in the countdown for the obsolete step timer				
.answerID	Integer for the interval ID of the obsolete step timer				
.currentScene	Integer for the current scene number				
.currentStep	Integer for the current step number in the current scene				
.totalScenes	Integer for the total scenes in the demo (not the total steps)				
.totalFinished	Integer for the total number of scenes the user has answered				
.demo_name	String of the demo name which is sent to the server				
.submissionRetryID	Integer for the interval ID of the persistent submission				
.layoutFrameSprite	Sprite containing the background of the demo				
.answerPanelLayer	Layer containing the answer panel sprite which extends lefts				
.submitButton	Button for submit answers to the server				
.answerButton	Button for the show answer animation				
.readyButton	Explore mode only button to let the user exit explore mode				
.wifiGreySprite	Sprite of a grey wifi single to show no connection yet				
.wifiGreenSprite	Sprite of a green wifi single to show no connection yet				
.wifiBlueSprite	Sprite of a blue wifi single to show no connection yet				
.checkSprite	Sprite of a checkmark to show the user answer the question correctly				

Sprite of a 'X' to show the user answer the question incorrectly Sprite of the answer panel on the right of the screen Obsolete displays the time left until the show answer is revealed Label uses for displaying the question text of each scene Label uses for displaying the title of the demo Layer containing the navigation panel sprite which extends up Sprite of a text box which displays the number of submissions left				
Obsolete displays the time left until the show answer is revealed Label uses for displaying the question text of each scene Label uses for displaying the title of the demo Layer containing the navigation panel sprite which extends up				
Label uses for displaying the question text of each scene Label uses for displaying the title of the demo Layer containing the navigation panel sprite which extends up				
Label uses for displaying the title of the demo Layer containing the navigation panel sprite which extends up				
Layer containing the navigation panel sprite which extends up				
Layer containing the navigation panel sprite which extends up				
Button which sets the demo to the previous scene				
Button which sets the demo to the next scene				
Button which resets the current scene of the demo				
Button which sets the demo to explore if it exists				
Invisible sprite that triggers the bottom panel to extend				
Invisible sprite that triggers the bottom panel to extend				
Invisible sprite that triggers the answer panel and the bottom to				
retract keeping the them for getting stuck				
Sprite of an arrow to indicate that the bottom panel extends				
Sprite of an arrow to indicate that the answer panel extends				
Sprite of the a empty red progress bar				
Label of the word "Progress" Label of how many soons have been answer out of how many total				
Label of how many scene have been answer out of how many total				
scene there are				
Sprite of the green left cap of the progress bar				
Sprite of the green right cap of the progress bar				
Sprite of the green middle of the progress bar				
Label of how many tries the student has for the current scene				
Sprite of the background images for the instruction dialog box				
The OK button in the for the instruction dialog box				
Label for the words "Instructions" in the instruction dialog box				
Label the instruction text in the instruction dialog box				
Layer the background image of the entire demo				
Layer a 50% black box that covers the screen				
The list of answer and bottom panel states				
RETRACTED: 0 – The panel is completely retracted				
EXTENDING: 1 – The panel is in the process of extending				
EXTENDED: 2 – The panel has completely extended				
RETRACTING: 3 – The panel is in the process of retracting				
Integer which records the current state of the bottom panel				
Integer which records the current state of the answer panel				
Boolean flag that if true prevents the bottom panel from moving				
Boolean flag that if true prevents the answer panel from moving				
Mouser class which track the status of the mouse and weather the				
mouse is currently in the plugin.				
An array of every scene in the demo				
An array of strings for each quiz name				
Obsolete the amount the space to clip the top of the plugin				
Obsolete the amount the space to clip the bottom of the plugin				

Public methods

setupScene()

Adds the problemLayer and bgLayer to the passed scene

Parameters:

Scene – The scene to be prepared for use

Returns:

None

getWindowClipping()

Obsolete tells the website how much of the plugin should be clipped

Parameters:

None

Returns:

An array with the first element is the .headerClipping and the second is .footerClipping

showAnswer()

Called when the user presses the "Show answer" button and it runs the answer animation of the current scene.

Parameters:

x – An integer of the current x mouse position

y – An integer of the current y mouse position

Returns:

None

submitAnswer()

Called when the user presses the "Submit" button and it then tries to send the users answer to monocleCAT.

Parameters:

None

Returns:

None

bottomPanelHoverCallback()

Called when the user moves the mouse to the bottom side and if the bottom panel is fully retracted it triggers the bottom panel to extend.

Parameters:

x – An integer of the current x mouse position

y – An integer of the current y mouse position

Returns:

None

answerPanelHoverCallback()

Called when the user moves the mouse to the right side and if the answer panel is fully retracted it triggers the answer panel to extend.

Parameters:

x – An integer of the current x mouse position

y – An integer of the current y mouse position

Returns: None
problemAreaHoverCallback()
Called when the user moves the mouse in the middle and if the answer or bottom panel fully extend it triggers it to retract.
Parameters:
x – An integer of the current x mouse position
y – An integer of the current y mouse position
Returns:
None
retractAnswerPanel()
Called internally to retract the answer panel. This function does nothing if the Boolean
flag answerPanelLock is true. Parameters:
None
Returns:
None
extendAnswerPanel()
Called internally to extend the answer panel. This function does nothing if the Boolean flag answerPanelLock is true.
Parameters:
None
Returns:
None
retractBottomPanel()
Called internally to retract the bottom panel. This function does nothing if the Boolean flag bottomPanelLock is true.
Parameters:
None
Returns:
None
extendBottomPanel()
Called internally to extend the bottom panel. This function does nothing if the Boolean
flag bottomPanelLock is true. Parameters:

None

Returns:

None

answerMoveDone()

Called internally after the answer panel has extended or retracted. This function updates the current state of answerPanelState.

Parameters:

instance - The instance of the plugin usually this or window Returns: None bottomMoveDone() Called internally after the bottom panel has extended or retracted. This function updates the current state of bottomPanelState. Parameters: instance – The instance of the plugin usually this or window Returns: None resetButtonClickCallback() Called when the user presses the reset button and it runs the loadQuiz() function for the current scene. Parameters: x – An integer of the current x mouse position v – An integer of the current v mouse position Returns: None setTitle() Called by the developer to change the title of the demo Parameters: title – String to set the new title with. Returns: None setTries() Called by the developer to set the amount of tries in the passed scene Parameters: tries – Number of tries for the passed scene scene - The scene that the number of tries are changed for Returns: None getScene() Called by the developer to find get the actual scene reference Parameters: scene – The question number of the desired scene step -The step number of the desired scene Returns:

rantScana()

A reference to the requested scene

getCurrentScene()

Called by the developer to find get the current scene reference

Parameters:

None

D	e	۲ı	1	r	n	c	
ĸ	ы	u		П	п	`	0

A reference to the current scene

getSceneNumber()

Called by the developer to find get the current scene number and step number

Parameters:

None

Returns:

An array of the current question number and step number

getFlatSceneList()

Called internally to get an one dimensional array of the scenes

Parameters:

None

Returns:

An one dimensional array of all the scenes.

onUpdate()

Called internally when the preloader is done loading one resource then it update the loading progress bar.

Parameters:

increment – How many resources have been loaded total – How many total resources need to be loaded

Returns:

None

begin()

Called by the developer to signal the start of the demo. All preloading and scene initialization occurs here.

Parameters:

None

Returns:

None

nextScene()

Called when the user click the next scene button. This cleans up the old scene and sets the next scene to be drawn.

Parameters:

None

Returns:

None

nextScene()

Called when the user click the next scene button. This cleans up the old scene and sets the next scene to be drawn.

Parameters:

None

Returns:

None
changeScene() Called internally to change the current scene and UI. Does not do any clean up. Parameters: Scene – Reference to the scene to change to
Returns: None
changeStep() Obsolete Called internally to change the current step and UI. Does not do any clean use Parameters: Scene – Reference to the step in the current scene to change to Returns: None
prevScene() Called when the user click the previous scene button. This cleans up the old scene and sets the previous scene to be drawn. Parameters: None Returns: None
answerCallback() Obsolete called internally to track the reveal timers status. Parameters: instance – The instance of the plugin usually this or window Returns: None
drawUI() Called internally on each scene change to add all the UI as children of the current scene and scene change to add all the UI as children of the current scene and scene and scene change to add all the UI as children of the current scene and scene
updateUI() Called internally whenever the demo status changes. This visually updates the user of what is happening internally. Parameters: None Returns: None
showCurtain() Called by the developer to show the 50% black layer and block user interaction.

Parameters: None Returns: None hideCurtain() Called by the developer to hides the 50% black layer and restores user interaction. Parameters: None Returns: None showInstructions() Called internally to show the user the instruction dialog and the curtain. Parameters: None Returns: None hideInstructions() Called by the user pressing the "OK" button in the instruction dialog which removes the dialog, the curtain and starts the demo Parameters: None Returns: None setInstructionText() Called by the developer to change the displayed text in the instruction dialog box Parameters: text - String of the new instruction text Returns: None gotoScene() Called by the developer to change current scene to the passed scene Parameters: numQ - Number of the question to set current scene to. numS - Number of the step to set the current scene to. Returns: None stepDone() **Obsolete** called by the developer to signal that a step question has been completed Parameters: numQ - Number of the question to set done. numS - Number of the step to set done.

Returns:

None	
gotoExplore() Called by the user pressing the "?" button. It cleans up the current scene and displays explore scene.	the
Parameters: None	
Returns: None	
startExplore() Called internally or by the user pressing the "?" button. This records the current scene display the explore scene on top of it. Parameters:	and
None	
Returns: None	
endExplore() Called by the user pressing the "Go to quiz" button. This return the current scene to the recorded last scene. Parameters: None Returns: None	e
js_getDemoName() Called by monocleCAT and returns the demo name to the server. Parameters:	
None Returns: A string of the demos name	
js_setDemoName() Called by monocleCAT and sets a new demo name. Parameters:	
newName:String – The new name of the demo Returns: None	
js_getNumberOfQuizzes() Called by monocleCAT and returns the number of quizzes to the server. Parameters: None Returns:	

js_getQuizNames()

An integer number of quizzes

Called by monocleCAT and returns the name of each quiz to the server.

Parameters:

None

Returns:

An array of strings with the name of each question

js_onQuizSubmit()

Called by monocleCAT and lets the demo know the server has received an answer.

Parameters:

result1:String – The quiz name which has been received by server result2:String – The true/false which has been received by server

Returns:

None

persistentSubmission()

Called by submitQuiz and calls itself every 10 seconds attempting to send the users' answer to the server. Once the server calls js_onQuizSubmit the demo stops sending it's answer.

Parameters:

None

Returns:

None