**VSim Testing Notes … September 13, 2018**

General:

1. About VSim page … the dialog box needs to be bigger so that it doesn’t truncate the text. (When first opened now, the first two text blocks are missing their conclusions.)
2. About VSim page … add (Lead) behind your and Francesca’s names
3. About VSim page … update the list of people for the Repository and Archive (replacing this list corrects my spelling error for Lisa’s last name (sorry), and adds ‘and’ before Anthony): Lisa McAulay, Kristian J. Allen, Peter Broadwell, Hardy Pottinger, and Anthony Vuong
4. About VSim page … add a ‘T’ to the beginning of the sentence following Acknowledgements.
5. Adjust Dialog box in the second tier after you say that you do want to lock a narrative or ER file:
   1. It should say Lock (now says Dialog)
6. When right clicking to lock a narrative or ER, change ‘This is not undoable’ to ‘A file locked without a password cannot be unlocked.’
7. Navigation menu: Capitalize the U and D in ‘Speed Up’ and ‘Speed Down’ (for consistency)
8. Under the Model tab, move Model Information to the top of the list
9. In the Model Information dialog box, add (s) to field titles for Author, Contributor, and Funder … so they read as Author(s), Contributor(s), Funder(s).
10. Can you add status bar updates when one invokes the hot keys listed under Render?
11. BUG: In model info, the process to adjust Project Date Range is pretty challenging (the Release Date is different and better) … please change Project Date Range to be the same as Release Date, and use 7/21/2014 as default date for all three spots. (If that’s hard, change to simple text boxes to be filled in by the content creator.)
12. BUG: Time slider … the very first time one loads a model with a time slider, after clicking the Time Slider dialog box, the Page Up and Page Down keys don’t work … after you manually click on a new time period once, then they work.
13. BUG?: I’m not seeing a difference between saving a file with Embed Models clicked on or off … did it both ways with Saqqara and the files were the same size. Am I doing something wrong?
14. Changes to Hot Keys
    1. Can R be ‘home’ (which would make R stand for Reset)
    2. And then could H can be used for Help and invoke a list of hot keys and tips? If so, we’ll send you a list of info to include on that page. (See prototype for this, where H brings up hot key list)
15. A question … my understanding is that the display of narrative overlays and ERs are now isolated … we no longer allow both to show at the same time. Is that correct? (So autolaunch is blocked during a narrative, opening up an ER fades out the narrative overlay text … right? We like this because it minimize conflicts in screen real estate, and maximizes space for the narrative overlays.)
16. A question … will launching VSim always include the cmd line window, or is that something only for testing?
17. How difficult to add an option on import obj that asks ‘Flip model so that Y axis is up?’ If Yes, that transformation should happen and then the model loads, if No, the model loads as normal. (Some modeling programs think Y is up including many that export objs, some programs think Z is up … VSim thinks Z is up and automatically flips objs.)
18. Lighting … can you change the ambient lighting default setting so that it’s not so very dark?
19. Another question about lighting … where is the light source?
20. LOD scale … let’s talk about this … something I want to be able to control, but it’s buried in OSG.

Narrative:

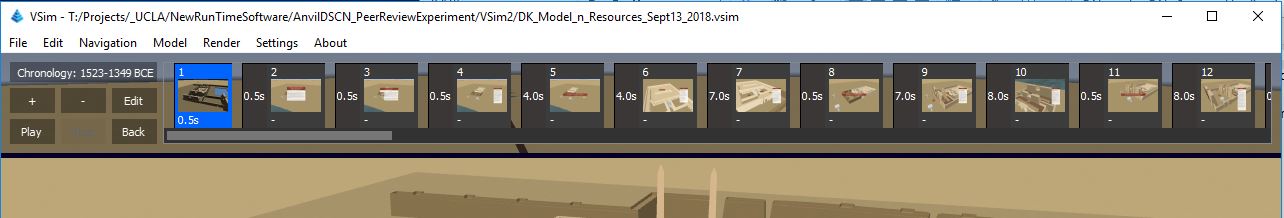
1. Love the fix for the letter spacing! Thanks.
2. Love the x/y/w/h settings for the containers and the w/h for the styles!
3. Love the paste as plain text!
4. Love the revert to style function … can the top level of that just say ‘Revert to …’ and then the four styles are in the drop-down
5. Change ‘Slide’ to ‘Node’ in menu that appears on right click (Should be ‘Add Node’ instead of ‘Add Slide’ … change slide to node where it appears)
6. Some modifications for the default settings for the styles (leave settings as is, unless noted):
   1. Heading 1: Arial Bold, 28 pt, white text, black background at 178 alpha, 500x70
   2. Heading 2: Arial Bold 18 pt, blue text (R=0 G=84 B=166), white background at 178 alpha, 300x40
   3. Body: Arial 10 pt, black text, white background at 178 alpha, 175x200
   4. Label: Arial Bold, 10 pt, white text, blue background (R=0 G=84 B=166) at 255 alpha, 125x25
   5. Image: Add white border at 5pt
7. BUG: When a narrative is imported into a model with multiple time periods (Digital Karnak), the very first slide re-generates at whatever time period is currently set. (The others retain the time period from the time of their save.) See graphic below.
8. BUG: When you just start building or editing a narrative within a model where the lighting is off on launch (Digital Karnak), the thumbnails are saving with the lighting on regardless of the actual lighting setting … BUT … **if you turn lighting on and then off again**, new thumbnails save with lighting off, and editing the ones with lighting on will change them to lighting off.
9. BUG: The thumbnails rebuild when you play narratives … this shouldn’t happen. (The lighting behavior noted above makes this very apparent. See graphic below.)
10. WE MAY CHOOSE TO IGNORE THIS. When the node editor is docked along the left or bottom, selecting specific elements of text and adjusting their attributes (e.g. color, size) works … with the node pulled away from the edges, the same command changes all text in the container, not just the selected text.
11. Can you add the “Loop the narrative” feature back in and add it to display settings?

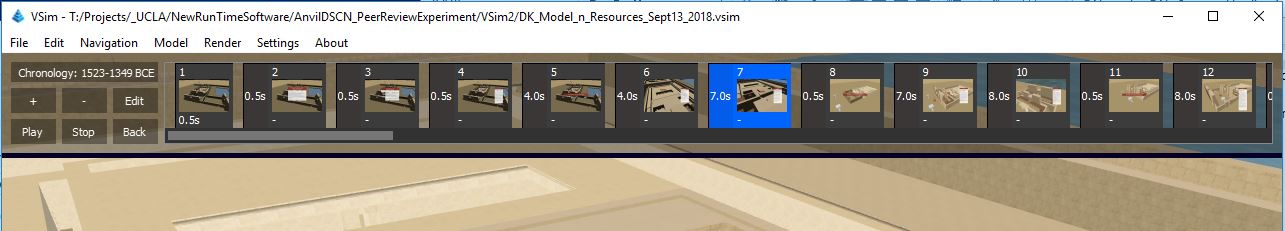
Embedded Resources:

1. In the Filter window, please change ‘Clear All’ to say ‘Clear Filters’ and change to upper right button related to the search from ‘Clear’ to ‘Clear Search.’ (This came from our testing with students)
2. Love the Resource Legend!
3. Love attributes on ER text!
4. How evil would it be to be able to paste in images?

Lisa and Francesca to get you:

1. New start model
2. New start narratives
3. List of commands to include in help/hot key menu (if we decide to add that; see General #7 below) … if so, do we want to add ‘-,’ ‘=,’ and shift to jump in WASD?
4. A Mac for testing







**VSim Testing Notes … August 27, 2018**

General:

1. For Lisa and Francesca to do: Start-up model with narrative … VSim pyramid and simple how-to narrative
2. Love that you’re saving the simulation window size and lighting toggle!
3. The initial launch size however is weird … there’s a brief second at the old window dimensions, then it shrinks down to a smaller size. Why? It also goes to the small size when you click File -> New, but then jumps to the saved window size when you load a model. This may have been a debug change, but please revert back to the old default size.
4. Navigation … in pedestrian mode, walking up stairs doesn’t work properly … there’s no incremental height increase as one goes up the stairs … walking down stairs works, but not up
5. In the top level menus, please move ‘History’ from the Window tab, and put it in the Edit tab.
6. In ‘Display Settings’ , the near clip setting doesn’t show the proper number when changed (if default is 1, I change to 5, the model responds, then back to the settings and it still shows as 1)
7. How are near and far clip determined? (I’m used to near and far as distances … what is auto?)
8. In ‘Navigation Settings’ can you display the current preset in the option window (and then, if it is changed, display the new choice) … right now it is grey.
9. We need to add a Go-To option that allows user to key in a specific XYZ HPR and go there
10. Still need assimp – can we choose which formats to accommodate, or is it all or nothing?
11. Branding resolution (where to place and governor to keep from falling out of window)
12. Mac release and testing
13. Replace the text for About VSim with:  
      
    VSim facilitates the real-time exploration and educational use of highly detailed, academically generated three-dimensional computer models. The VSim software and the companion VSim Repository and Archive were funded by the National Endowment for the Humanities (HD-50958-10 and HK-50164-14) and UCLA’s Institute for Digital Research and Education. The online repository and archive for the dissemination of 3D content across grade levels and humanities disciplines was created in partnership with the UCLA Digital Library Program (vsim.library.ucla.edu).  
      
    VSim Project Team  
    Principle Investigators: Lisa M. Snyder and Scott Friedman  
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    Content Developers: Francesca Albrezzi and Echo Theohar  
    Repository and Archive: Lisa MacAulay, Kristian J. Allen, Peter Broadwell, Hardy Pottinger, Anthony Vuong  
      
    Acknowledgements  
    The VSim logo was derived from an image entitled 'food pyramid' by Simon Sim from the Noun Project.
14. Adjust the titles in the various Dialog boxes:
    1. Model Information should say Model Information (now says Dialog)
    2. Switches should say Switch Manager (now says VSim)
    3. Font and Color Styles should say Font and Color Styles (now says Dialog)
    4. About should say About VSim (now says Dialog)
    5. The ER editor box should say Resource Editor (now says Dialog)
15. What’s to go in ‘Other Settings’?
16. Replace the reposition and ‘T’ pngs with the attached new files
17. Replace the vsim.ico and vsim.png with attached new files
18. The Save, Save As, and Export did embed all of the models within the file, but it doesn’t seem to allow the linked version anymore. I will test on this more.

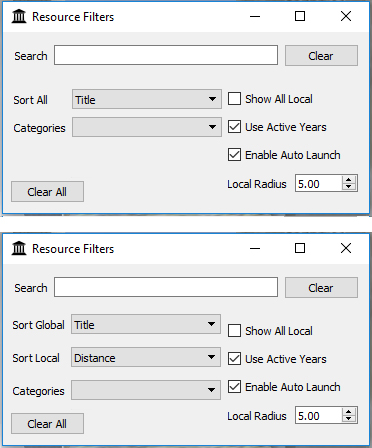
Narrative:

1. Thumbnails still to be fixed … now reflects the time slider setting, but still doesn’t reflect lighting setting … will test on this more … are you changing this to a small snapshot at the time of creation and ‘done’ on the node editor?
2. In Fonts and Color Styles, add setting for dimensions of container for each style (i.e., height and width)
3. Usability … In the message bar along the bottom, instead of “Click to continue” when a narrative pauses, could it read as "Mouse click or press P key to continue" and stay in the bottom bar until that happens or user disengages to navigate the environment (right now it fades very quickly).
4. For Lisa and Francesca to get you: final defaults for styles

Embedded Resources:

1. With what you’ve done in this last release, I don’t think we need to recreate the old ‘show by category/type/title’ … but I would like to recover two things. The first is to add a legend for ER Categories so that we have an easy way to see the categories (see graphic below)



1. The second is to get an easy way to see by type … please add the ER file name and author field into the fields that are queried by the search feature (so one can search for ‘pdf’
2. Filter options drop-downs … change ‘None’ where it appears to ‘Creation Order’ to be more explicit
3. The filter settings will need to save with the ER file so that it can be loaded on launch (one content creator will choose to arrange by Title, another by Distance … )
4. Change the background of the scroll bar used for display of ERs with long text elements to have the same color as the Narrative bar and ER bar scrolls (those are both #323232, the ER display s is currently 1a1a1a)
5. Usability … double-clicking to launch a resource should not re-position it unless it is set to reposition (it should only launch the URL or file)
6. Usability … right now you have to either freeze or be on top of the ER display to right click and remove the ER pop-up boxes. Can we change that functionality so that a right click anywhere in the simulation window will remove the ER pop-up box?
7. Filter options menu … minor graphic adjustments … can you put the search box and ‘Clear’ at the top of the menu with a bit of space below it to visually separate it from the filter functions, and delete the ‘Close’ (unnecessary now that we have the big X) … see at right for mock-up of both the ‘Show All’ and ‘Show Local and Global’ options

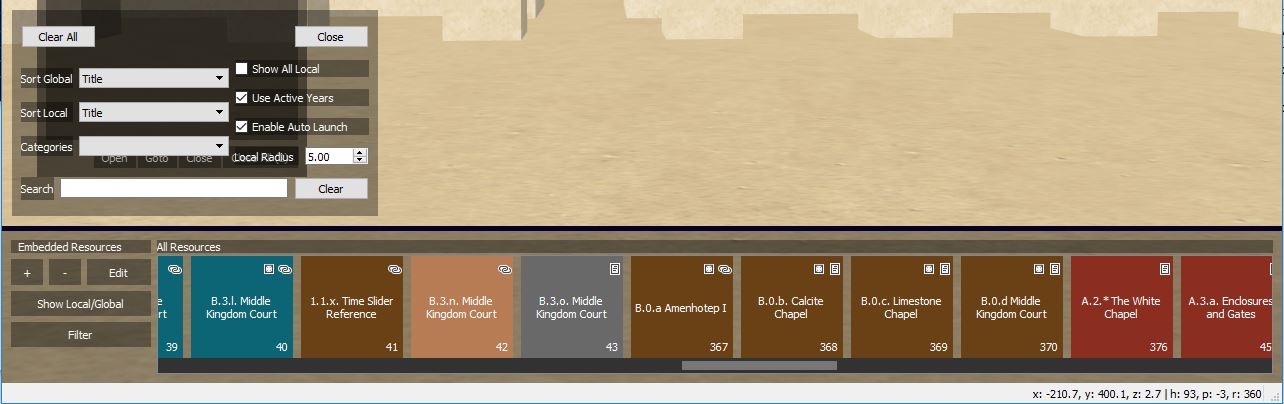
**VSim Testing Notes … August 8, 2018**

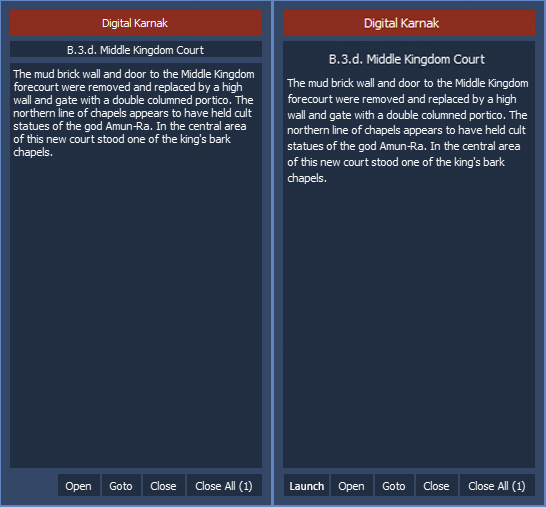
General:

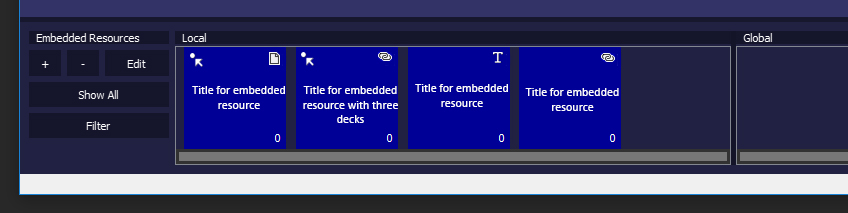
1. Already mentioned this in an e-mail … some type of block is needed to prevent branding and narrative overlays from going off screen on window re-size.
2. Already mentioned this in an e-mail … conversion from old files still needs adjustment. Now all of the ERs are set as AutoLauch=Text. In the prototype, if there is no AutoLaunch entry for the ER, AutoLauch should be off; if it actually says AutoLaunch 0, then AutoLaunch should be on; and if it actually says AutoLaunch 2, then only the text should AutoLaunch. (This is important because it makes it easier for us to test.)
3. Change default on launch so that lighting is off
4. When saving settings for a model, should also save lighting condition (on or off), and ER filter settings (at minimum, Sort Local and Sort Global)
5. Crashed when I tried ‘Save As’ … worked the next time I did it … will continue to test this.
6. We’re continuing to test the ER import/export …

Embedded Resources:

1. You’re already working on this, and I can’t wait … we definitely need the ‘export all resources’ option on the export.
2. Please slow down the ER reposition speed to about half of what it is now (How is that controlled? It does not appear to change based on navigation speed. As is, the motion is lightning fast, too fast to allow users to track the motion and figure out the relative position of the origin and jump-to spot.)
3. Sorting doesn’t work in Show All view (see graphic below). If it’s easiest, just default Show All to an alphabetical sort.
4. Graphic adjustments to the ER display … slightly larger font on category … slightly larger font on title … fill in the gutter between the title and body … more spacing between lines of the body text. (See graphic below.)
5. Please enable basic text attributes in the ER (at minimum, Control i for *italic*, Control b for **bold** … these will be used for things like bibliographic entries)
6. Move the reposition icon to the upper left corner of the ER (see graphic below)
7. Replace current reposition icon with attached (an arrow pointing to a dot)
8. Replace current text/annotation icon with attached (a T)
9. Can the Filter menu be a ‘tear-off’ like the Node Editor? As is, it overlaps and conflicts with the ER text, so one is inclined to open and close it constantly.
10. Its currently very cumbersome to Show All by Category … and I’m feeling the loss of Show All by Type, and by Title … can you extend the ‘Show Local/Global’/’Show All’ toggle from just those two, and add additional options to ‘Show by Category,’ ‘Show by Type,’ and ‘Show by Title’? (Let’s talk about this … can you think of a more clever way to solve that request?)
11. The display of the AutoLaunch Text is rather jarring … can the ERs fade in slightly rather than just appearing.
12. Would you add a Launch button in the open space at the lower left bottom of the ER display? This would replicate the double-click action that launches the resource URL or file; it should be grayed out for annotations where there’s nothing to launch.







**VSim Testing Notes … July 23, 2018**

General:

1. Love the start position … there’s a weird flash of the original model position (basically a single frame) before the simulation jumps to the start position setting … can you fix or mask that?

Narratives:

1. Love the inclusion of the image tab on the style settings … the border width setting does not, however, appear to save (the color does)
2. Link the narrative thumbnails to their appropriate time on the time slider (when they re-draw at load, they re-draw at the default time)
3. The thumbnails always draw with lighting enabled. Can you check against the display settings before rendering them?
4. One can’t adjust the font and color styles unless there’s a narrative selected (which is good), but can you either 1) on the menu draw, check and if there’s not a narrative selected, grey out that option … or 2) throw an error message? (A narrative must be selected to modify styles.)
5. Can you add to the font and color styles the option of setting a size for the boxes? (Say someone wants to make their labels all consistent, or have body text boxes that are consistent … that’s hard without a place to set the size)
6. Saved dotted border … if one right-clicks on the text box, then click off, then clicks ‘Done’ … it saves with a slight dotted border.

Desirability

Embedded Resources:

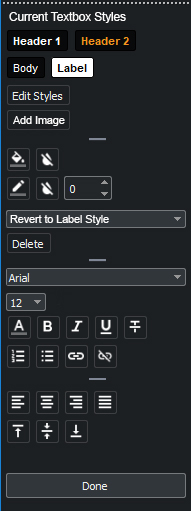
1. We definitely need the ‘export all resources’ option on the export (we’ve been messing ourselves up with that as we’ve been testing paths)

**VSim Testing Notes … July 9, 2018**

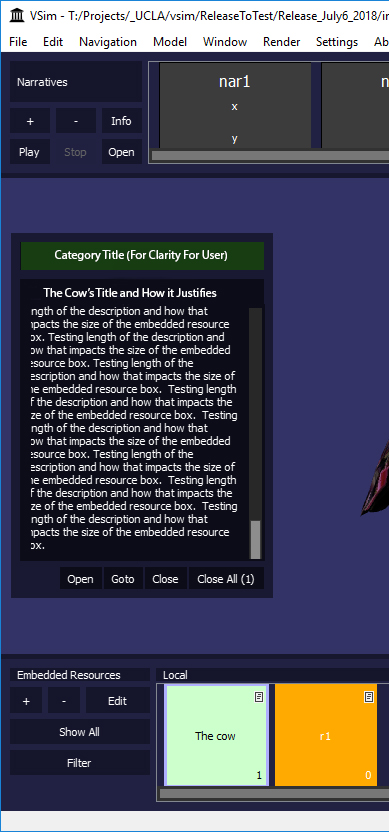
General:

1. See list from May 30 below for additional items not yet addressed
2. Love the branding. Thanks. Please adjust so that the added content responds to changes of the Narrative and ER bars (check the prototype for guidance on behavior … we want this is to prevent logos from appearing weirdly placed once the user closes the two bars). Basically, anything put on the top half of the simulation window should move up/down with the Narrative Bar; anything put on the bottom half of the simulation window should move up/down with the ER Bar.
3. Love the speed reference in the status bar … it, however, doesn’t adjust automatically anymore as you use the wheel (you have to click once you are on the rate you think you want to be at and you will begin traveling at that rate of speed.) Please reinstate real-time speed updating.
4. Ground/Gravity with collision works fine. Turning Gravity on should, however, automatically turn collision on so that one doesn’t sink through the floor. Need a way to set eye height. (Model settings?) But if you don’t have a floor plane, Ground/Gravity causes you to sink endlessly. Could you add a check wherein if there’s no geometry below, gravity is either turned off or doesn’t turn on so that you don’t endlessly sink?
5. Add help hints … under About? (exact text to follow)
6. Update text on ‘About VSim’ to add in Phase 2 and mention the Repository and Archive (exact text to follow)

Narratives:

1. Narrative Player … if slide has ‘Next Slide on Click’ for duration, add message in bar along the bottom: ‘Press Any Key To Continue’ (P currently only advances to the next slide; it should be toggle between Play and Pause … see prototype for behavior)
2. Narrative Player … add rule so that a long author field behaves the same as the description field if there’s more text than can be fully displayed (the description field wraps to two lines and concludes with ellipses (…))
3. Narrative Editor … thumbnails
4. Narrative Editor … low priority, but it is currently difficult to determine if an font attribute (e.g., bold or italic) is being utilized on not - it would be great if we could select some text with an attribute and see the buttons in a toggle-on state.
5. Narrative Editor/Styles … if you say you click to add a border, can the border size automatically jump to 1? (Right now it shows size=0, and there’s a border, which is confusing)
6. Node editor … see graphic at right for rearrangement and consolidation so it fits fully within the simulation window. I’ve organized the styles to be more space efficient … puts all style-related bits and ‘add’ commands at top, things related to the full selection in the middle, things related to selected text next, and alignment at the bottom (these can be applied to both the full selection or just the selected text.) Minor text adjustments … ‘Add Image’ and ‘Revert to *x* Style’
7. Node editor … hover over on commands?
8. Node editor … in ‘Revert to *x* Style’ do we need the ‘None’?
9. Node editor … low priority, can we add a ‘paste text only’ option to the menu that appears when one right clicks into a box?
10. Node editor … Can bullet points adjust with font coloring? (Numbering does, but not bullets)

Embedded Resources:

1. Thanks for adding the right click to clear ERs … please extend it so that the right click can be anywhere in the simulation window, not just over the ER
2. Show All … filter setting of sort by title should work when show all … when showing all, disable re-ordering so that one can choose the ERs methodically (looking at everything in a category, for example)
3. Display of ERs (i.e., the box on the left … see graphic at right)
   1. Add another box at the top for category with centered white text and color of category as background … this is to give users a reference to the content being displayed)
   2. Move title down so that it appears as one with description (but keep as two separate boxes so the slider only moves the description)
   3. Give a slightly bigger margin on the left side of the description display
   4. Love the scroll bar on the description … please modify the visual so that it better matches with the sliders of the two bars
   5. Delete bottom box for author (that will get super repetitive and I don’t see many people thoroughly filling in that field)
   6. Make default box size bigger per image
   7. Make ER display box responsive so that it adjusts its size when the simulation window size is changed.
4. Search … doesn’t work yet … should search in title, description, authors/source, unique ER field
5. Add toggle to display anchor of ERs (a wish list item!)

VSim Testing Notes … May 30, 2018 … combines comments from both Lisa and Francesca

General:

1. **Make the ‘ground’ mode work for WASD and flight simulation modes of navigation … will also involve the ability for the content creator/user to set the eye height (1.65 works for models built in meters; 5.4 works for models built in feet; 165 works for a model built in centimeters)**
2. **Add code to recognize and allow changes of binary switches (you’d probably put the controls for this under the ‘Window’ tab with the Time Slider)**
3. ~~Add anti-aliasing~~
4. Performance is still an issue … the frame rate of the new build is still slower than the prototype, sometimes significantly (when comparing the two at rest in the same location in the WCE model, the prototype reports a frame rate around 22 while the new build reports around 15; that disparity is roughly maintained when flying the same motion; at another location, it’s not so bad … the prototype reports a resting frame rate of around 14, and the new build reports around 12.)
5. **Add branding per the prototype (the ability for a content creator to add information to an overlay (i.e., a single slide-like thing) that is always present during the simulation session**
6. **Locking (I’m thinking about this and we’ll talk at some point about the optimal/most efficient way to implement this)**
7. Just a question … what’s the difference between ‘New,’ ‘Open,’ and ‘Import’ when talking about models? (It seems to me that ‘New’ and ‘Open’ do the same thing at the moment.)

Narratives:

1. I LOVE everything you’ve added in the Node Editor!
2. **Fix thumbnails in the Narrative Editor**
3. Adjust the Fonts & Styles settings so that the default backgrounds have no border, and add the ability to specify a style’s border size and color.
4. Fix preview in the Fonts & Styles setting window
5. In the Node Editor, remove or fix “none” from the headers drop down menu. (Selecting “none” causes a crash.)
6. Adjust the code involving pressing ‘p’ to pause and play while on a narrative. If playing a narrative, one stops and click out to navigation, hitting “p” to resume play should continue the narrative at the last viewed slide. (Currently, the narrative begins again at slide 1.)
7. Minor adjustments:
   1. Eventually, we need to fix the Narrative titles so that they work better in the space allowed (we’re thinking about the rules for this, so don’t worry about it now).
   2. During narrative creation, adjust so that navigation is unfrozen after one hit of the spacebar after adding a new slide. (Currently, adding a slide freezes navigation and requires two hits of the spacebar to get moving again.)
   3. In the Node Editor, make “delete” and “edits styles” look more button-like so people understand they are clickable (i.e., add a border or similar).
   4. In the Node Editor, if it is super easy, can the label “alpha channel” in select color box be changed to “opacity?”
   5. In the Node Editor, allow for use of the arrows on the keyboard to move the text cursor
   6. In the Node Editor, add functionality to allow for the inclusion and management of hyperlinks in textboxes.

Embedded Resources:

1. When adding a resource, add a word limit for the ER title (40 characters?)
2. Allow longer descriptions, and add a scroll in the text display along the left side when necessary
3. Adjust the ER launch conditions in the ER dialog, and make the corresponding changes to the code:
   1. No action (the default condition with nothing clicked; during interaction, this requires the user to single-click the ER to show them and/or double-click them to launch)
   2. Auto launch text only (I think you’re conflating two ideas here – the ERs should always show in the Global or Local bars unless filtered out; if the ‘Popup when in range’ is set, what should happen is the text display pops up along the left side when triggered)
      1. For the moment, hide the ‘fx’ symbol on the ERs
      2. For the moment, hide the distance on the ERs
      3. In the spot of the distance, display a unique number for the ER (the number would be a reference for users to cite the information; I’m not sure how valuable the distance is to users)
   3. Auto launch resource (this needs to be added; what should happen is the text display pops up and the attendant program (if any) launches when triggered (e.g., Image Viewer or Movie Player)
   4. Auto reposition (this is equivalent of ‘goto on click,’ which works, but not in concert with the auto launch so the user is repositioned when the resource is triggered)
4. Default resource choice to ‘Local’ (currently Global)
5. When editing a resource, at ‘Save,’ ask if the position of the resource should be reset (Y or N, with Y resetting the HPR and XYZ; N does nothing).
6. Make ‘Show All’ work as in prototype
7. Add ‘right click’ to make the ER text display along the left side of the screen go away (yes, one can click in the Global or Local bar to do that, but I LOVE being able to make it go away with a fast right click; this should not change the right click uses in flight simulation mode)
8. Filter: Even if Local ERs are sorted by title, they should still display by distance (currently, if you have ‘by title’ selected, they don’t show in the ER panel at all) … the ‘sort by title’ should just govern how they are displayed when they display
9. ‘Clear All’ scares me. If we keep that in, we need to put an ‘Are you SURE?’ warning before it deletes everything!