

ogged in as: bi	r <i>utzman</i> (Don Brutzi		2018-01-28 17:51 PST	Project:	All Projects	
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					Issue # Jump	
					Recently Visited: 0001194	
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ID	Project	Category	View Status	Date Submitted	Last Update	
0001194	X3D	19775-1 (Abstract)	public	2017-11-08 05:39	2018-01-28 17:51	
Reporter	walroy					
Assigned To						
Priority	normal	Severity	minor	Reproducibili	ty N/A	
Status	acknowledged	Resolution	open			
Summary	0001194: 23.4.4 NavigationInfo - VIEWALL should be a required navigation behaviour					
Description	Submitter ind	icates that this c	omment may be	e public: *Yes* -	-	
	Comment on 19 23.4.4 Navigatio http://www.web /navigation.html	nInfo 3d.org/documen	ts/specifications		Part01/components	
	Subject: "VIEWALL" needs to be a required navigation behavior					
	A common failure mode for end users is to have no viewpoint, or incorrect viewpoints, inside a large X3D model. Such a situation means that there is no way to tell if the scene is empty, or the browser is broken, or what else might be going on.					
	This pathology is becoming more prevalent as CAD and 3D printing models are created more frequently, especially with varying units.					
	VIEWALL thus ne	eeds to be availa	ble as a navigat	ion option (and	also recovery mode)	
Edit Assi	-	ange Status To: firmed	Monitor	Clone Close	e Move Delete	

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	for users.					
	A number of X3D browsers have already implemented this functionality, which therefore appears to be well understood.					
	Suggest adding:					
	"VIEWALL" zooms back to show all geometry in a scene, either from the current location or from the default viewpoint location.					
Additional Information	Submitted on Thursday, 2017, November 2 - 9:52am by brutzman (brutzman) IP: 162.225.68.164					
	See: http://www.web3d.org/node/1694/submission/1552					
Tags	No tags attached.					
Attach Tags	(Separate by ",")		Existing tags Attach			
Attached Files						
Assign To: Change Status To: [Myself] Confirmed						
Relationshi	ps					
New relationship	Current issue related to Add					
🗉 Upload File						
Select File Maximum size: 5,000 KB	Browse No file selected.	Upload File				
Users monitoring this issue						
User List	r List There are no users monitoring this issue.					
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■ Notes						
~0002193 Reply may be made public. walroy (developer)						

2017-11-08 05:42 Isn't this more of a Viewpoint option than a NavigationInfo one? NavigationInfo specifies how a viewer moves in the scene (walk, examine, Edit Delete etc.), not where the viewer is looking from (camera position/orientation). Make Private 23.4.4 NavigationInfo: "The NavigationInfo node contains information describing the physical characteristics of the viewer's avatar and viewing model." 23.4.6 - Viewpoint: "The Viewpoint node defines a viewpoint that provides a perspective view of the scene." Submitted by Leonard Daly on 2nd November 2017 http://web3d.org/mailman/private/x3d_web3d.org/2017-November /006496.html ~0002195 Extract from minutes of X3D Mantis subgroup meeting held 13th November 2017 walroy (developer) http://web3d.org/mailman/private/x3d_web3d.org/2017-November 2017-11-16 05:34 /006544.html Last edited: 2018-01-24 09:45 _____ View 2 revisions Edit Delete The discussion opened with a restatement of the intended behaviour. If a Make Private scene author allows NavigationInfo type "VIEWALL" or "ANY" then the X3D browser user is offered an option to "View All" on the X3D browser interface. On the other hand, If the scene author does not include "VIEWALL" or "ANY" then the "View All" option on the X3D browser interface would be inhibited. The scene author could desire this latter behaviour for privacy or user experience reasons. When a user selects the "View All" option on the X3D browser, two candidate behaviours might be implemented: 1), The viewpoint moves along the vector from the current viewpoint to the centre of the scene, which might be in or out, in order to view the complete scene, or 2) the X3D browser somehow selects a new viewpoint. There might even be an option to do behaviour 1) on the first selection, and 2) on repeat selection. Both behaviours could be described in the prose. The action for behaviour 1) could be specified as a rotation of the viewpoint to the centre of the scene, followed by a zoom in or out as appropriate. The use case of a scene author wanting to animate the "View All" behaviour was then considered. An X3D browser can always compute a centre, or a weighted centre of a scene. A scene author could include a separate NavigationInfo node with only the VIEWALL mode selected. On binding that node the "View All" animation would be animated. It was noted that there would also be a need to consider timing issues with the "isBound" and "bindTime" output events, particularly when a change of viewpoint is being animated. However, it was also recognized that the "Jump" field of the Viewpoint node controls whether the change of viewpoint is instantaneous, or animated.

	[x3d] Thoughts on VIEWALL proposal - Mantis 1194 by Roy Walmsley http://web3d.org/mailman/private/x3d_web3d.org/2018-January /006769.html
	Of note: Annex G is not referred to by NavigationInfo section and likely should be. Further discussion thread by X3D Working Group, needs to move to x3d-
	"This annex describes basic X3D scene navigation recommended practice and "Features that imply interactivity are fundamental in X3D."
brutzman (developer) 2018-01-25 23:54 Edit Delete Make Private	X3D 19775 Abstract Spec, Annex G Recommended navigation behaviours (informative) http://www.web3d.org/documents/specifications/19775-1/V3.3/Part01 /behaviours.html#SelectFromMulitpleViewpoints
~0002260	of navigation is permitted. Having VIEWALL available by default, unless the scene author chooses to inhibit it, automatically provides a recovery option for an X3D browser user having viewing difficulties. Related:
	A minor drawback of not having a "VIEWALL" type in the NavigationInfo node would mean that scene authors would always have to provide this option, rather than it being available by default provided that "ANY" type
	attribute, this alternative approach was considered next. For example, a field could be added to the Viewpoint node called, "fit". This should still allow a scene author to permit, or disallow, the "View All" option as appropriate, by creating a separate Viewpoint with the "fit" field set to true. This Viewpoint, like all Viewpoint nodes, would be listed in the X3D browser interface, so selectable by the user.

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2018-01-24 09:45	brutzman	Note Edited: 0002195	View Revisions		
2018-01-25 23:54	brutzman	Note Added: 0002260			
2018-01-28 17:49	brutzman	Note Added: 0002261			
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