Project: X3D

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Issue # Jump

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ID	Project	Category	View Status	Date Submitted	Last Update
0001305	X3D	19775-1 (Abstract)	public	2020-06-06 16:02	2020-06-12 19:58

Reporter	brutzman				
Assigned To	brutzman				
Priority	normal	**Severity**	minor	**Reproducibility**	have not tried
Status	assigned	**Resolution**	open		

Summary 0001305: add field to Viewpoint for dedicated NavigationInfo

Description Great and numerous authoring difficulties often arise from Viewpoint and NavigationInfo being separate. A major long-term challenge is whether we might unify this functionality.

Note that the two nodes can be tied together as follows:

```
<Viewpoint DEF="view23" description="A beautiful spinning sneaker"/>
<NavigationInfo DEF="nav23" type='"EXAMINE"'/>
<ROUTE fromNode="view23" toNode="nav23" fromField="isBound" toField="set_bind"/>
```

Perhaps there is a syntactically way to say in a functionally equivalent way

```
<Viewpoint DEF="view23" description="A beautiful spinning sneaker">
  <NavigationInfo DEF="nav23" type='"EXAMINE"' containerField='navigation'/>
</ViewPoint>
```
and also
```
<Viewpoint DEF="view24" description="An unfashionable untied sneaker">
  <NavigationInfo USE="nav23"/>
</ViewPoint>
```

… which provides unambiguous unchangeable navigation fields for this viewpoint.

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Note that binding + unbinding a Viewpoint equivalently binds/unbinds the associated NavigationInfo, reverting simultaneously to previous Viewpoint and also previous NavigationInfo.

Tags	V4.0✕
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~0002596
brutzman (developer)
2020-06-06 16:06
Last edited: 2020-06-12 19:58
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Proposed specification addition:

23.3.1 X3DViewpointNode
23.4.5 OrthoViewpoint
23.4.6 Viewpoint

SFNode [in,out] navigationInfo NULL [NavigationInfo]

"The navigation field defines a dedicated NavigationInfo node for this X3DViewpointNode which is independent of the NavigationInfo binding stack."

□ Add Note

Add Note

⊟ Add Note

Note

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Date Modified	Username	Field	Change
2020-06-06 16:02	brutzman	New Issue	
2020-06-06 16:02	brutzman	Tag Attached: V4.0	
2020-06-06 16:06	brutzman	Note Added: 0002596	
2020-06-12 19:55	brutzman	Assigned To	=> brutzman
2020-06-12 19:55	brutzman	Status	new => assigned
2020-06-12 19:57	brutzman	Summary	add Viewpoint field for dedicated NavigationInfo => add field to Viewpoint for dedicated NavigationInfo
2020-06-12 19:58	brutzman	Note Edited: 0002596	View Revisions