2.4 Implementation Comparison

Layout space	$\mathbb{H}^3$		$\mathbb{H}^2$								
Projection	Beltrami-Klein		Poincaré disk								
	H3 Viewer	Walruss	Inxight	HyperTree	Hyptree	HVS	Ontology4us	JIT	HyperProf	TreeBolic	d3-hypertree
Pan navigation	✓		✓	✓~		✓	×	×			✓
Click navigation	✓		✓			✓		✓			✓
Zoom		!	✓	✓~	!	✓	×	×	!	!	✓
Pinch Zoom	×					×	×	×			✓
Rotation compensation	✓		✓								✓
Layout	*m*	*m*	*l*			*b*					*b*
Cyclic links	✓						✓	✓	✓		×
Multi focus			✓								×
Selection				N^k		1^s	1^s	1^s		1^s	N^t
Editable				✓				✓			×
Scales up to ~	100k	500k	20k								70k
Scalable if $\lambda < .1$											✓^{w}
Webpage	→	→		→	→		→	→	→	→	→
PDF	9p	-	8p	2p	7p	-		-			
Aplication code	C++ $	Java GPL2	$	Java $		Java			Java	Java $	
Libary code								JS $		Java GPL3	JS MIT
First appeared	’97	’01	’95	’99	’02		’09			’08	’17
Last update	’03	’05	’09	’12		’05	’14	’13	’13	’17	’18

Table 2.1: Empty cells indicate unknown value $ commercial $ free for noncommercial use
! group not evaluated ~ strange behaviour in demo ^{b} Bergé layout. Similar to $\{\infty, \delta\}$
^{m} Munzner $\mathbb{H}^3$ layout ^{l} Lamping and Rao layout ^{k} multiselection with keyboard
^{s} single selection only ^{t} toggle multi selection ^{w} with given weights, see 2.3.9