



Fig. 1. B&C 1.3



Fig. 2. B&C 1.9

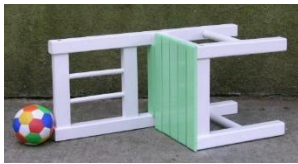


Fig. 3. B&C 1.10

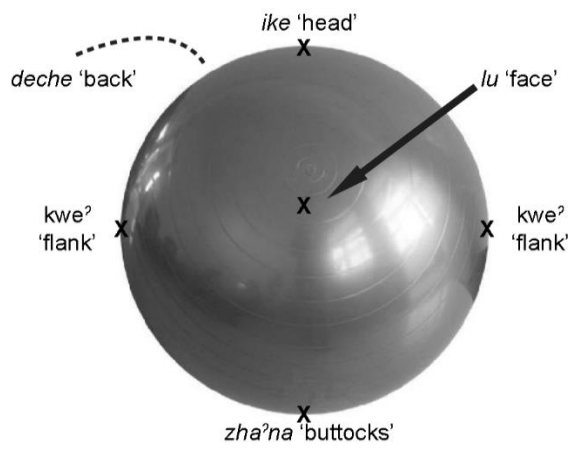


Figure 4. BPTs mapped onto a ball

Table 1. Ball and Chair photos and relational terms in relative descriptions






				
Fig. 5. B&C 1.3; B&C 4.4	Fig. 6. B&C 2.9	Fig. 7. B&C 3.9	Fig. 8. B&C 2.8 B&C 3.10	Fig. 9. B&C 1.9
Par. 3, 9, 11, 18	Par. 9	Par. 11	Par. 5, 11	Par. 7
<i>deche</i> 'back'; <i>atr�</i> 'behind'	<i>atr�</i> 'behind'	<i>del�nte</i> 'in front'	<i>del�nte</i> 'in front'; <i>lu</i> 'face'	<i>big�</i> 'left'



Fig. 10. B&C 2.9



Fig. 11.  
B&C 2.9

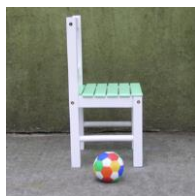


Fig. 12.  
B&C 2.8

Table 2. Endangered languages in spatial referencing research

<b>Language</b>	<b>Level of Endangerment: # of speakers</b>
Tseltal	At Risk: 261,084
Yucatec	At Risk: 706,000
Kgalagadi	Vulnerable: 10,000-15,000
Mopan	Vulnerable: 10,000-15,000
Meseño Cora	Vulnerable: 17,086
Diidxazá	Vulnerable: 80,000
Papantla Totonac	Vulnerable: 80,000
K'iche'	Vulnerable: 922,378
Seri	Threatened: 716-1,000
Jahai	Threatened: 1,000-9,999
Longgu	Threatened: 1,500;
Lavukaleve	Threatened: ~1,700
Tiriyó	Threatened: 2,456
Warlpiri	Threatened: ~3000
Ayutla Mixe	Threatened: 3,617
Arrernte	Threatened: 3,820
Yéli Dnye	Threatened: 6,000
Sumu-Mayangna	Threatened: ~10,000
P'urhépecha	Threatened: 117,221
Belhare	Severely Endangered: few
Trumai	Critically Endangered: 50

Source: *Catalogue of Endangered Languages*. 2015. The University of Hawaii at Manoa and Eastern Michigan University. <http://www.endangeredlanguages.com>. Last Accessed October 20, 2017.

Table 3. Endangered languages amongst Geographic grounding presentations

<b>Language</b>	<b>Level of Endangerment: # of speakers</b>
Caac	Endangered: 890 <sup>a</sup>
Chiapas Zoque (Rayón)	Shifting: 2,100 <sup>b</sup>
Dene	Threatened: 3,260 <sup>a</sup>
Diidxazá	Vulnerable: 80,000 <sup>a</sup>
Greenlandic	Vulnerable: 53,000 <sup>a</sup>
Kalasha	Threatened: 2,900-5,700 <sup>a</sup>
Komnzo	Endangered: 200 <sup>a</sup>
Ocoyoacac Otomí (re Acazulco Otomí)	Severely endangered: 609 <sup>c</sup>
Palula	Vulnerable: 9,841 <sup>a</sup>

Saaroa	Critically endangered: 10 <sup>a</sup>
Shua	Endangered: 4,100 <sup>a</sup>

*Sources:*

<sup>a</sup>*Catalogue of Endangered Languages*. 2015. The University of Hawaii at Manoa and Eastern Michigan University. <http://www.endangeredlanguages.com>. Last Accessed October 20, 2017.

<sup>b</sup>Lewis, Simons and Fennig (2016), last accessed online at <https://www.ethnologue.com/statistics/status> on 19 December 2016.

<sup>c</sup>Moseley, Christopher (2010), last accessed online at <http://www.unesco.org/culture/en/endangeredlanguages/atlas> on **23 December 2017**.