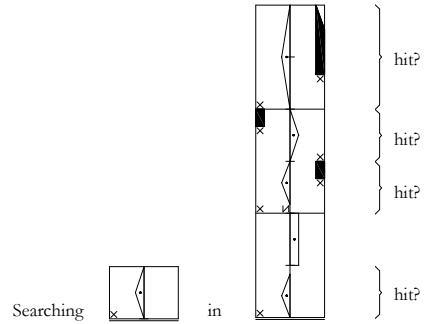ICKL 2007

Gábor Misi
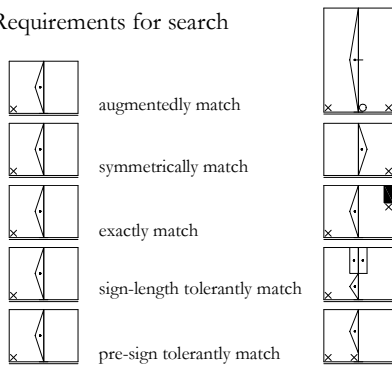
An algebraic representation
of Labanotation
for retrieval and other operations

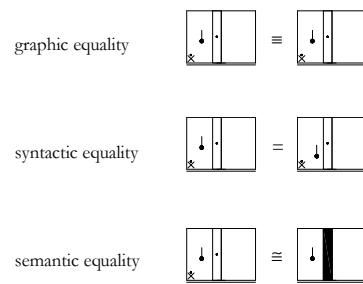`www.labanatory.com`

Labanotation and search

hit?
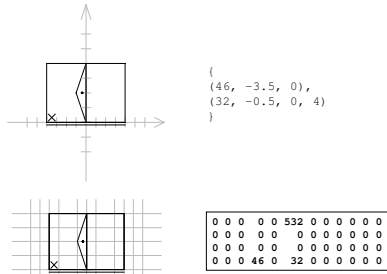
hit?

hit?

Searching   in   hit?

Requirements for search

augmentedly match

symmetrically match

exactly match

sign-length tolerantly match

pre-sign tolerantly match

Further requirements for search

graphic equality $\equiv$

syntactic equality $=$

semantic equality $\cong$

Representation

{
(46, -3.5, 0),
(32, -0.5, 0, 4)
}

0	0	0	0	0	532	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
0	0	0	46	0	32	0	0	0	0	0

Searching in a matrix

0	0	0	0	0	532	998	0	0	0	0	0	522
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	997	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	46	22	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	512	46	0	32	0	998	0	527	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	46	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	532	997	27	0	0	46	0	512
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	46	12	0
0	0	46	52	32	0	998	0	523	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	997	23	0	0	0	0	0
0	0	0	0	0	532	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	46	0	32	0	998	0	0	0	0	0	0