for string quartet

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#### **Performance Notes**

#### Network and notation

Each performer's score for *Network no.1* exists in two parts: the structural network map and the (traditional) musical notation. There is no 'full' score: each performance is the assembly of its individual parts. Each of the nodes (numerated circles) on the network map relate to one of the musical events on the notation page. The figures below show the nodes VII - X, and their relative notated parts.

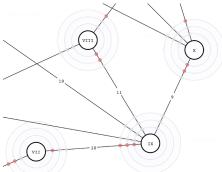


Figure 1: excerpt from Cello's network map

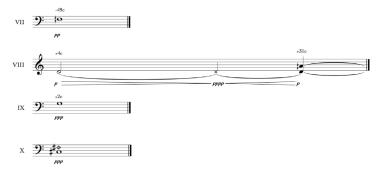


Figure 2: related events from Cello's score part

#### Node connections

The lines that connect the nodes on the map ('edges' in graph theory) signify potentially linked events. From a given node, a possible succeeding node is any other connected by a line. However, performers must follow the specific pathway signaled by the Volta marks (the three red circles surrounding each node). These markers are rearranged along with the edges each time the score is generated; they are performance specific.

The Volta marks act like  $1^{st}$ ,  $2^{nd}$ ,  $3^{rd}$ - time repeat bars in a standard score: the red circle closest to the node is the  $1^{st}$ -time, the next one moving out is the  $2^{nd}$ , the outermost is the  $3^{rd}$ . If a node is played more than 3 times in a performance, simply loop back to the start and begin again.  $1^{st}$ 

<sup>1</sup> Performers may discover that some nodes become 'unreachable' as no volta paths lead there. This is simply part of the nature of the stochastic score system.

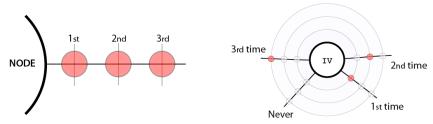


Figure 3: Volta repeat marks as encountered in the network map

The durations in the piece are scalable to the score map. For sustained tones and non-repeating bars, the bar length/note duration is scaled to the length of the edge. The number shown at the mid-point of the connecting line gives the duration in seconds. For instance, in the map example shown above, playing from node *VII* to *IX* lasts 10 seconds, then playing from *IX* to *VII* also lasts 10 seconds.

Durations of musical events that require a tempo and are repeated however, are slightly more complex. Depending on the length of the connecting line, tempos are scaled relatively; a longer length gives a slower tempo to a shorter (faster) line length. These tempos should be calculated before the performance using the following algorithm:

$$tempo = (20 / edge \ length) \times 60$$

As a guide, an edge length of 16 would produce a tempo of 75 b.p.m., whilst an edge length of 30 yeilds a tempo of 40 b.p.m.

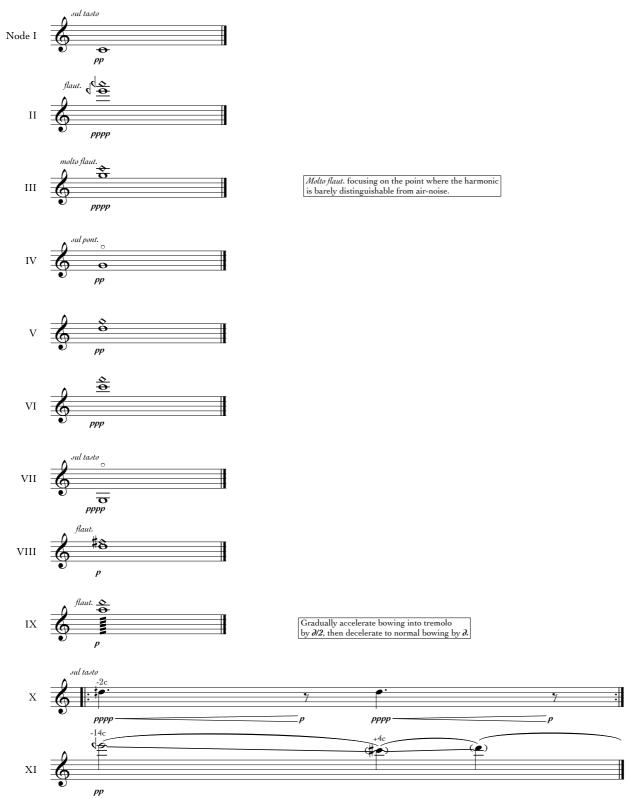
#### Performance

Unless specified otherwise, all sounds should be performed as a gradual swell: emerging from (near) silence (*dal niente*), reaching their dynamic peak at roughly the mid-point of their total duration, before slowly fading back into nothing (*al niente*). On sustained nodes it is assumed that all bowing is slow, *ad lib*.

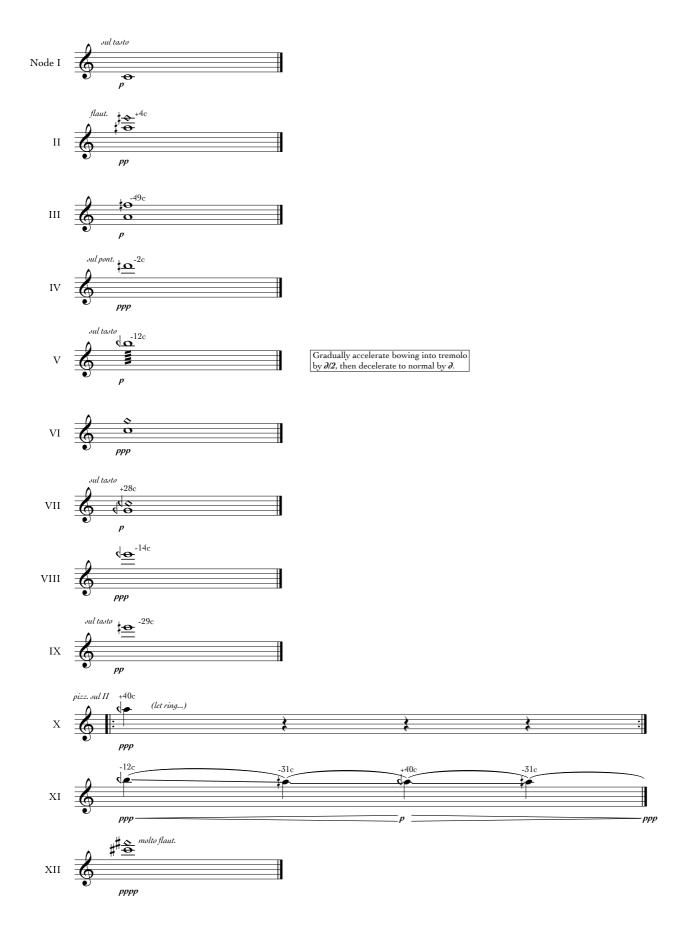
The piece begins with all players choosing a node as their starting position. The quartet should work to a common clock source to count the durations. When ready, all players should begin by following the first line's duration in silence, then begin performing at the next node. This staggers the entrance of all the instruments.

The piece ends after an elapsed time pre-decided by performers (minimum of 12.3 minutes). Once the timer reaches this point, performers finish their current part and then wait in silence for the last player to finish.

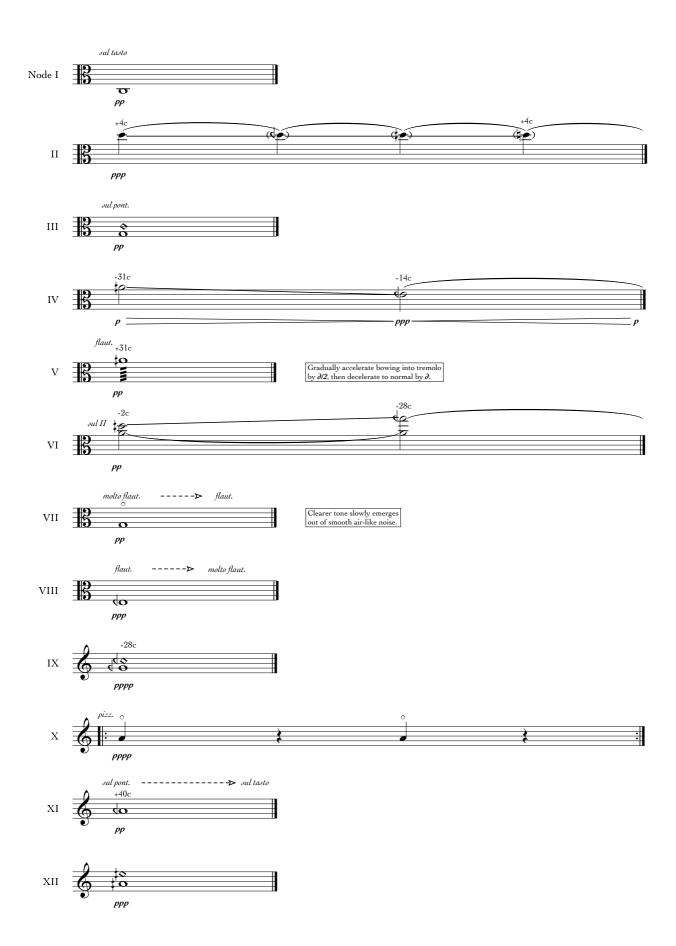
### Violin I



### Violin II



### Viola



#### Violoncello

