Cluster Typography

Jean-Michel Hufflen

BachoT_EX 2025

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First idea: hands flat on keys of a piano.

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First idea: hands flat on keys of a piano. White keys? or black ones? or both?

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First idea: hands flat on keys of a piano. White keys? or black ones? or both? Using *micro-intervals*.

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First idea: hands flat on keys of a piano.

White keys? or black ones? or both?

Using *micro-intervals*.

A *cluster* is a chord comprising at least three adjacent notes of a scale.

A cluster may be tonal

Example: Henryk Mikołaj Górecki's 3rd Symphony.

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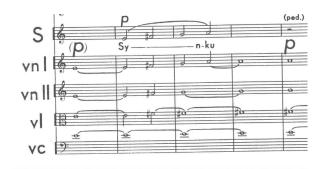
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A cluster may be tonal

Example: Henryk Mikołaj Górecki's 3rd Symphony.



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Whole-tone cluster

H. M. Górecki's 2nd Symphony.

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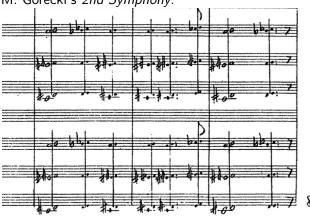
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Example: Dmitri Shostakovich's 14th Symphony.

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Chromatic cluster

Example: Dmitri Shostakovich's 14th Symphony.

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	8	beg	ſſ	Ĺ	ſſ		ď	Ĺ	f	b.	Ph	ſĹ	ff	Í	Í	Í	ff	Ĺ	Íſ	Íſ	Íſ	ff	f,
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Micro-tonal cluster

Example by Alfred Schnittke: 1st Concerto grosso's end.

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Quite standardised

Double stem—up and down—for chromatic clusters.

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Quite standardised

Double stem—up and down—for chromatic clusters.



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Using thick horizontal lines...

 \dots but make precise the notes belonging to the cluster.

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Using thick horizontal lines...

... but make precise the notes belonging to the cluster.

Example 1: H. M. Górecki's Old Polish Music.

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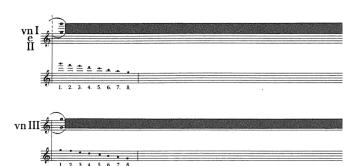
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Using thick horizontal lines...

... but make precise the notes belonging to the cluster. Example 1: H. M. Górecki's *Old Polish Music*.



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Using thick horizontal lines (con'd)

Example 2: Krzysztof Penderecki's *Threnody*.

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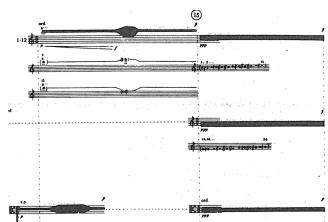
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Example 2: Krzysztof Penderecki's *Threnody*.



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More changing, more random...

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More expressive power

More changing, more random...



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Even more

Sofia Gubaidulina's *De Profundis*, for *bayan* (chromatic accordion).

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Even more

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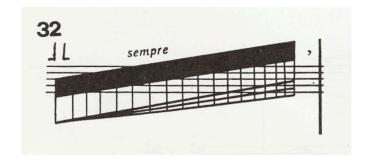
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Other examples extracted from Sofia Gubaidulina's.



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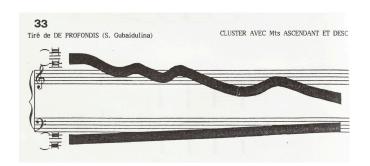
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György Ligeti's Volumina, for organ.

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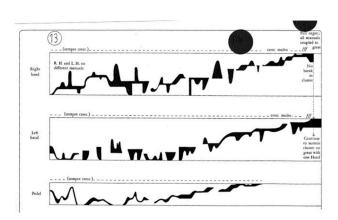
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About music software

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Software such as Sibelius and Finale ← clusters pictured as *vertical bars*.

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New notation for modern (bad?) music?

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New notation for modern (bad?) music? But the first clusters were written in 1738 by Jean-Féry Rebel for his ballet *Les Élémens*! Simple concept, difficult to put down.