Semi-Interactive Morphogenesis
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**Goal**

Simulate growth phenomena.
Application to the modeling of complex organic shapes and folded surfaces.

**Approach**

A new modeling system based on a set of growing tools and a mechanical model.
Extension of [CN02] with more flexibility and interactive tools.

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**Our model**

**Growth: expansion**

Setting the rest length: quadratic form

Expansion tensor field

Our Energy-based mechanical model

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**Growing Tools**

**Hot Spots**

**Hot Curves**

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**Hot Surfaces**

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**GRAVIR Lab.**

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