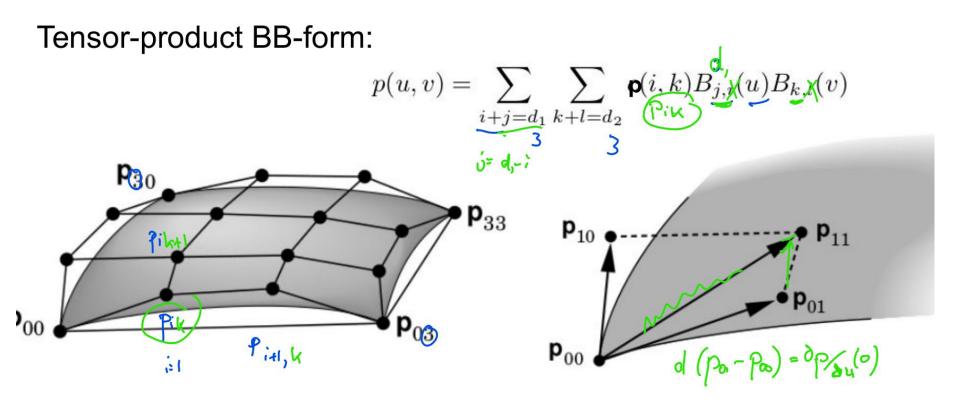


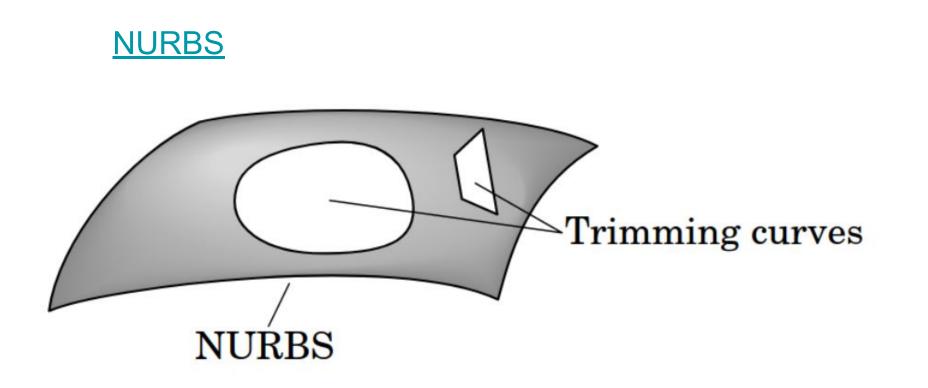
Curved Geometry in 2 variables

Computer Graphics Jorg Peters



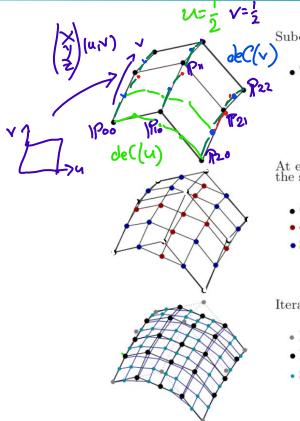
Curved Geometry in 2 variables

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Curved Geometry in 2 variables: deCasteljau

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Subdivision begins with a few points connected to form faces

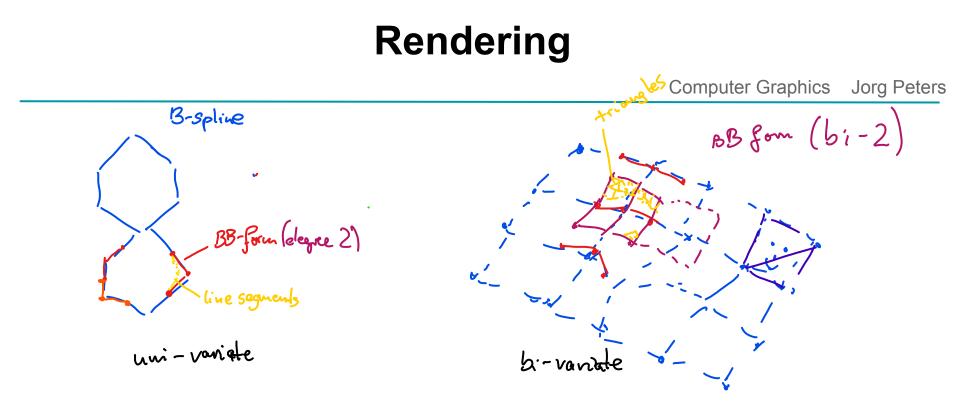
• These are the initial control points used to define the surface

At each step new points are created determined by the surrounding points.

- Original control points
- de Casteljau in front-to-back direction
- Second de Casteljau application

Iteration of de Casteljau=Subdivision

- Input control points
- First Iteration
- Second Iteration



Rendering

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