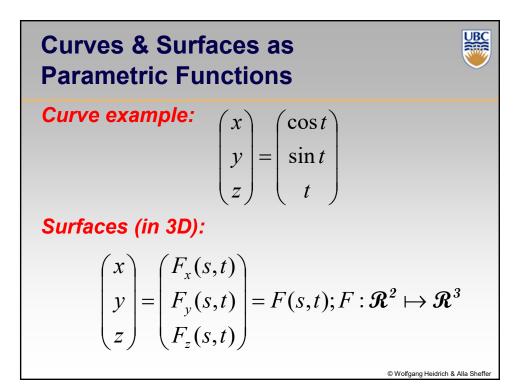
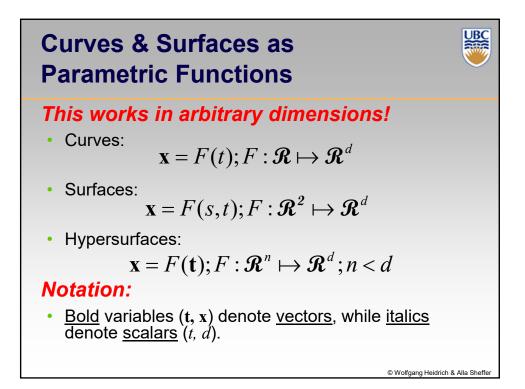


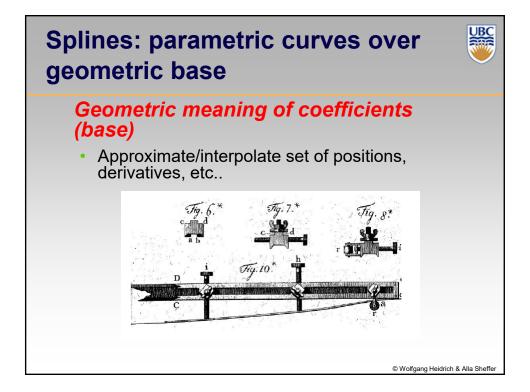
$$\begin{pmatrix} x \\ y \\ z \end{pmatrix} = \begin{pmatrix} F_x(t) \\ F_y(t) \\ F_z(t) \end{pmatrix} =: F(t); F : \mathcal{R} \mapsto \mathcal{R}^3$$

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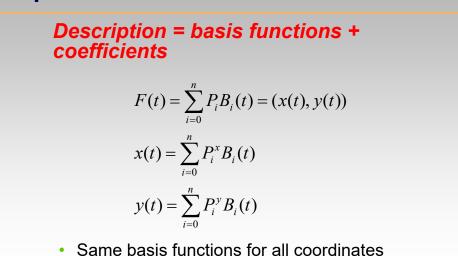
UBC







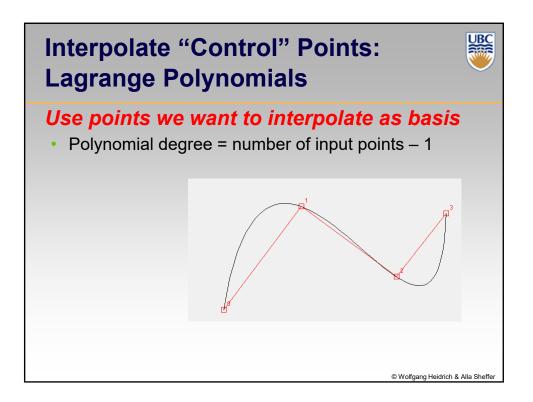
## **Splines**

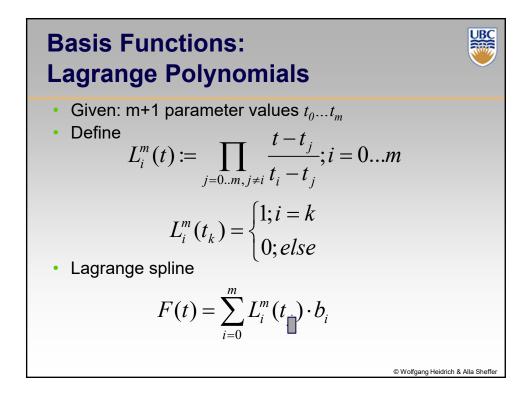


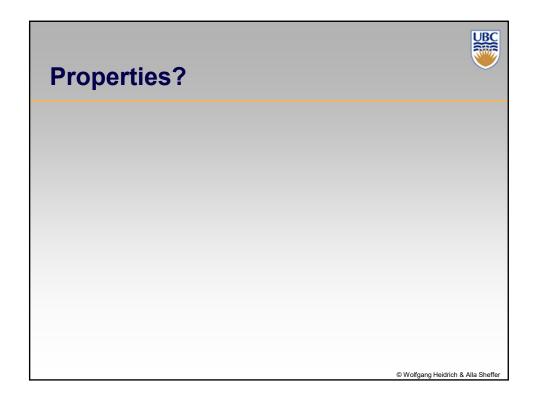
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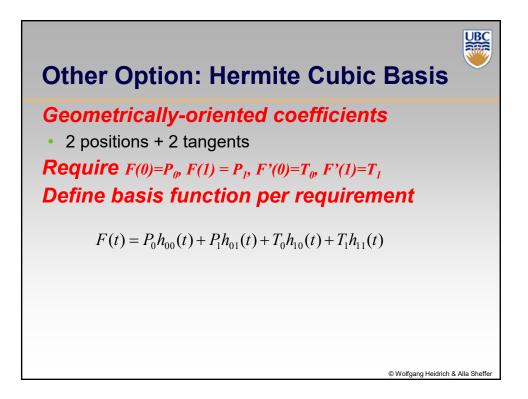
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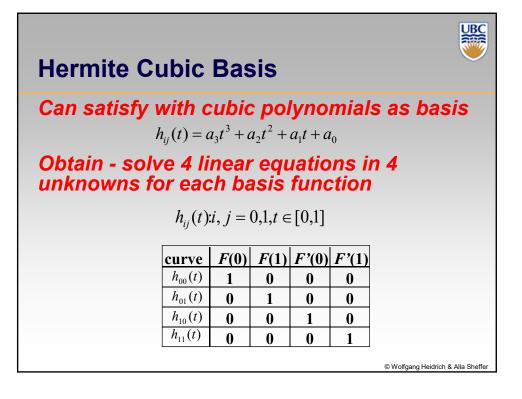
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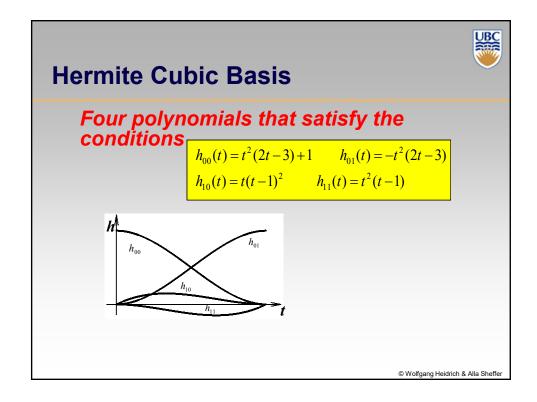


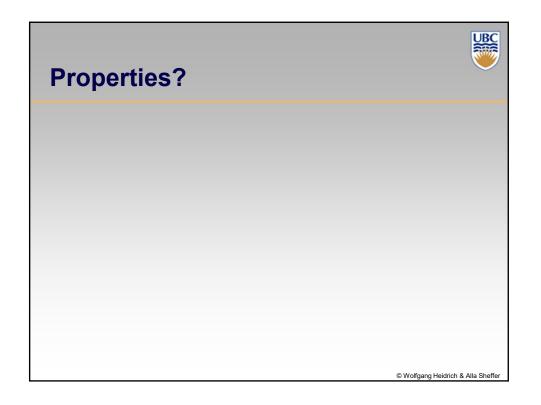


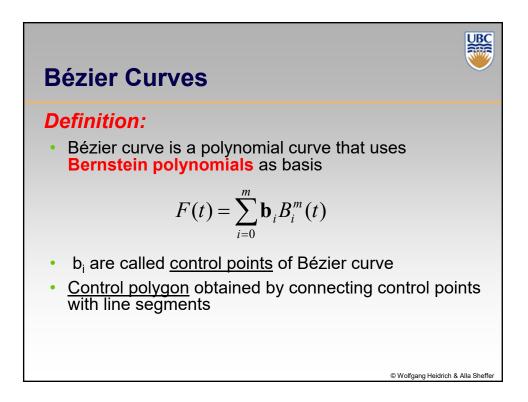












## **Bernstein Polynomials**

$$B_{i}^{m}(t) := \binom{m}{i} t^{i} (1-t)^{m-i}; i = 0..m; t \in [0,1],$$
$$\binom{m}{i} = \frac{m!}{(m-i)!i!}$$

UBC

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