

På matriceform

$$\begin{bmatrix}
0 & 0 & 0 & 1 \\
1 & 1 & 1 & 1 \\
0 & 0 & 1 & 0 \\
3 & 2 & 1 & 0
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\begin{bmatrix}
a \\
b \\
c \\
d
\end{bmatrix}
\begin{bmatrix}
a \\
b \\
4
\end{bmatrix}$$

A $x = b$

$$x = A^{-1}b$$

Når ir regner ut dette, får ir
$$p(x) = 2x^{3} - x^{2}$$
cleCastajan / Bezier forts

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Kontrollpunkter
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(1.1) (3.1)

Bruker algoritmen
$$d = 2 \quad t = \frac{1}{2}$$

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$$\begin{bmatrix}
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c$$

 $= (1,3) \cdot \frac{1}{2} + (1,1) \cdot \frac{1}{2} = (1,2)$

$$C_{11} = C_{1} (1-t) + C_{2} \cdot t$$

$$= (1,1) \cdot \frac{1}{2} + (3,1) \cdot \frac{1}{2} = (2,1)$$

$$C_{02} = (1,2) \cdot \frac{1}{2} + (2,1) \cdot \frac{1}{2} = (3,3)$$

$$C_{02} = (1-t) + C_{11} \cdot t$$

$$= (1,2) \cdot \frac{1}{2} + (2,1) \cdot \frac{1}{2} = (\frac{3}{2},\frac{3}{2})$$

$$C_{02} = (1-t) + C_{1} \cdot t$$

$$= (1-t)^{2} + C_{1} \cdot 2 \cdot t \cdot (1-t) + C_{2} \cdot t^{2}$$

Disse funksjonene er kvadratiske Bernotein-basis funksjoner. Se Figur 4.7 0g 4.10 (sist i avsnitt)

Bezier: 04t 41