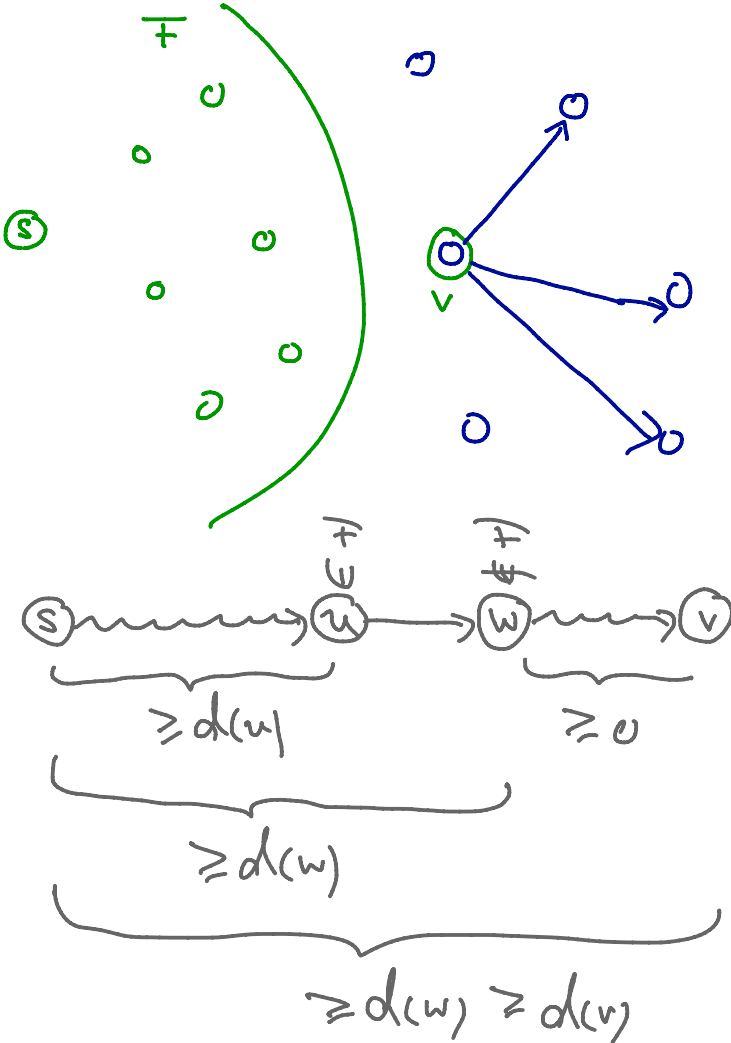
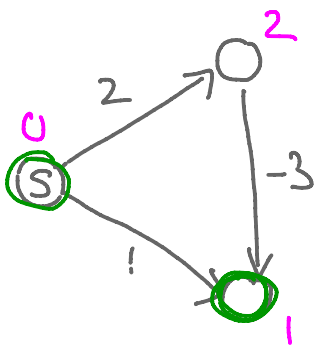


KU 18.10.18

Dijkstra-Algorithmus





(anfang: $F = \emptyset$)

Dijkstra braucht $C \geq 0$!

Rechnung zu Bem. 1.42

für jeden s - v -Weg

$$W = \left\{ \left(\underset{\underset{v_0}{\parallel}}{s}, v_1 \right), (v_1, v_2), \dots, (v_{l-1}, \underset{\underset{v_l}{\parallel}}{v}) \right\}$$

gilt:

$$C(W) = \sum_{i=1}^l \underbrace{c_{(v_{i-1}, v_i)}}_{\geq \pi(v_i) - \pi(v_{i-1})} \geq \pi(\underset{\underset{v}{\parallel}}{v_l}) - \pi(\underset{\underset{s}{\parallel}}{v_0})$$