

# Algorithmen zur Visualisierung von Graphen

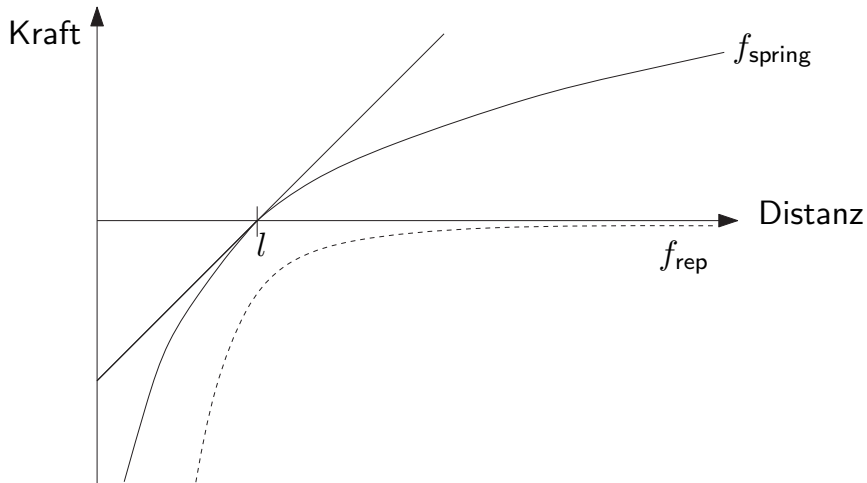
## Kräftebasierte Verfahren – Teil 2

Vorlesung im Wintersemester 2010/2011

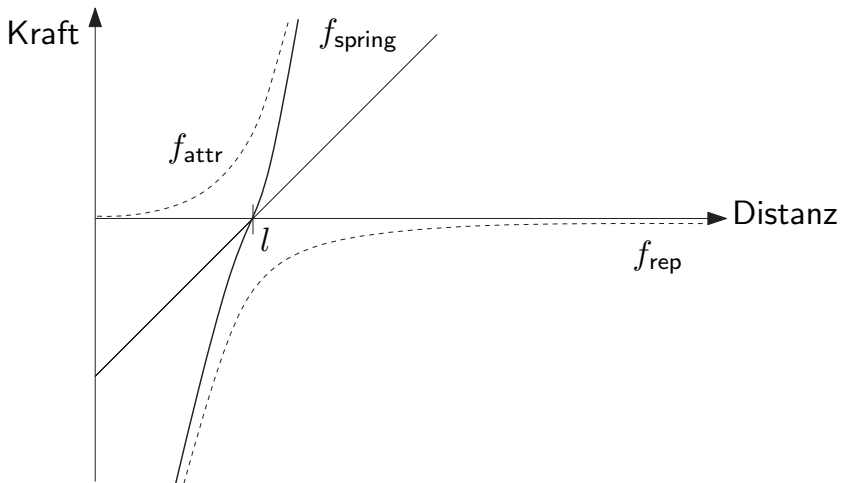
Robert Görke

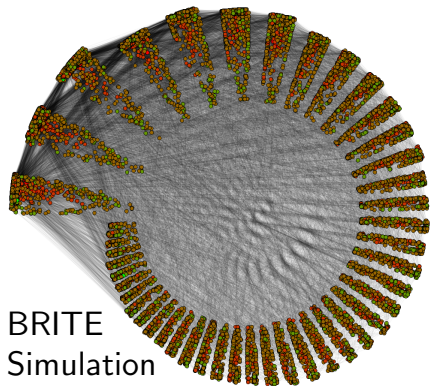
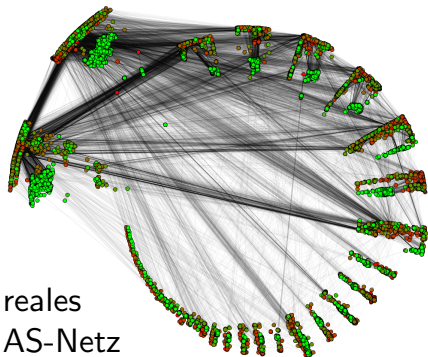
27.10.2010

# Kräfte diagramm Spring-Embedder nach Eades (1984)

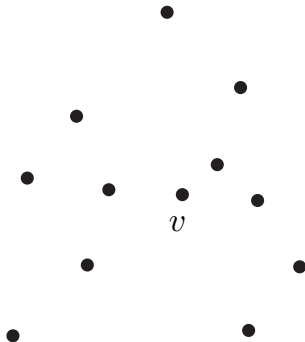


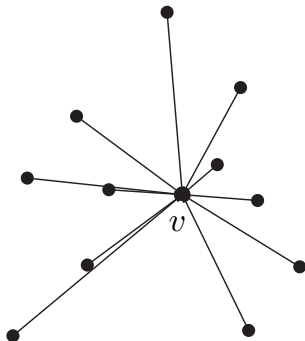
# Kräfte diagramm nach Fruchterman/Reingold (1991)

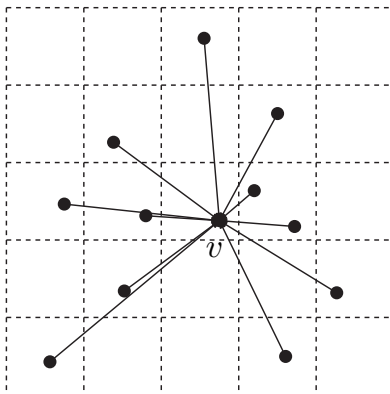


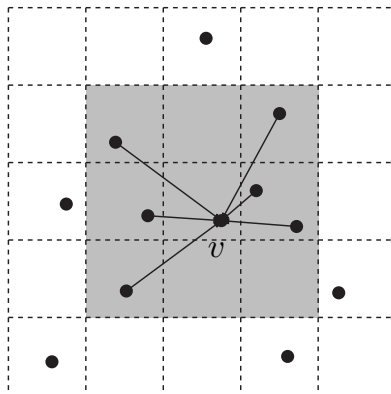


Core-Dekomposition, Max-Core links (klein), Farbe=Grad,  
Größe=Zentralität, Winkel  $\sim$  #Knoten, Tiefe  $\sim$  #Kanten

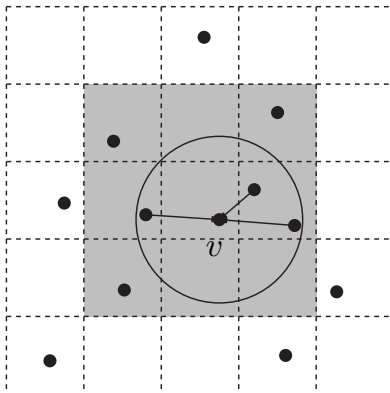


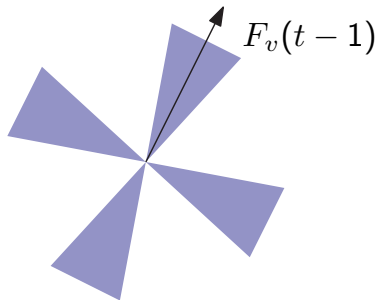


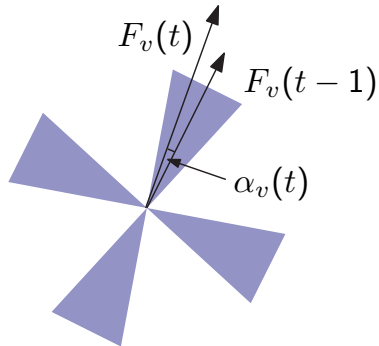


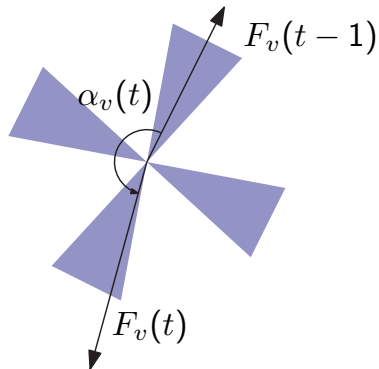


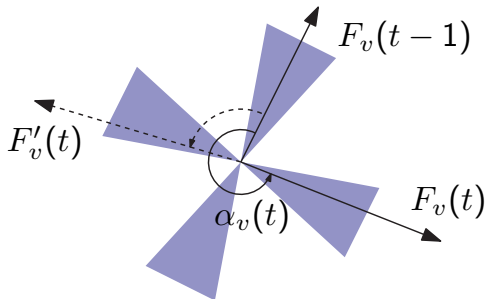




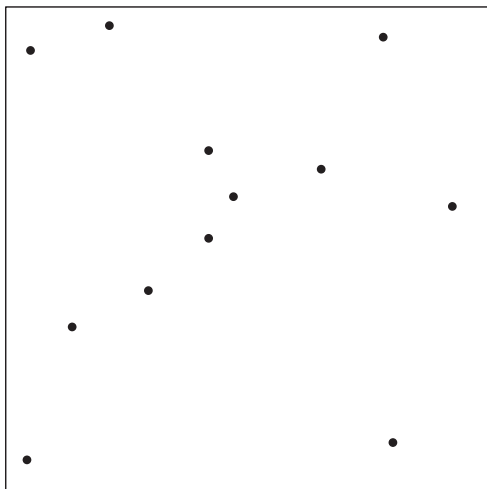








# Quad-Tree

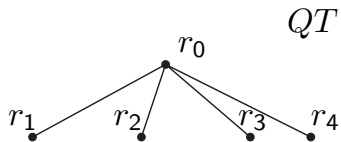
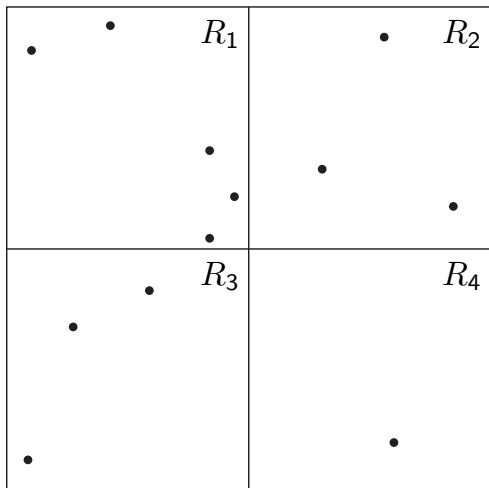


$R_0$

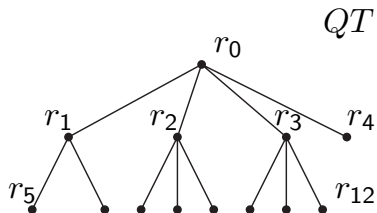
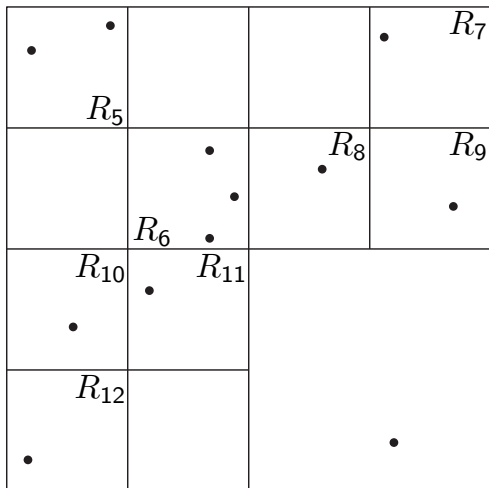
$r_0$

$QT$

# Quad-Tree

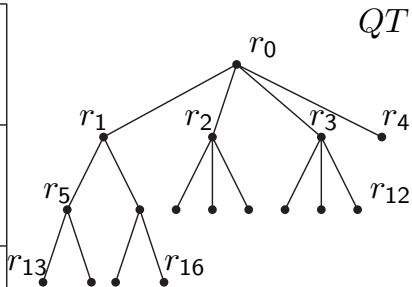
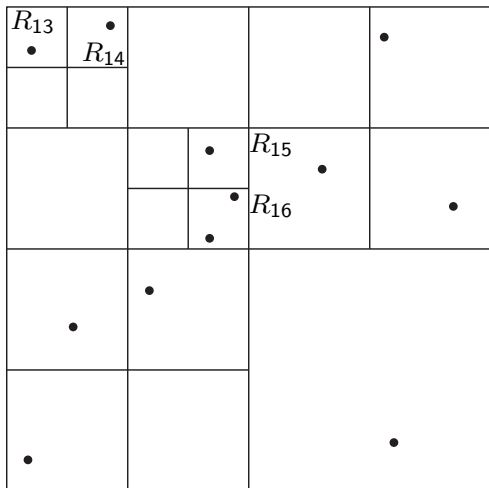


# Quad-Tree



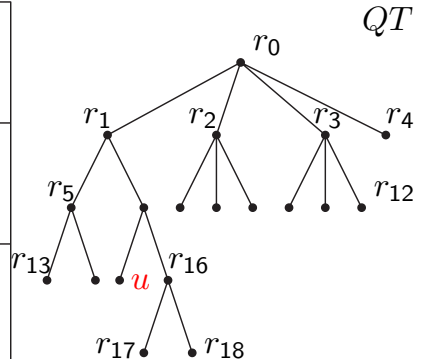
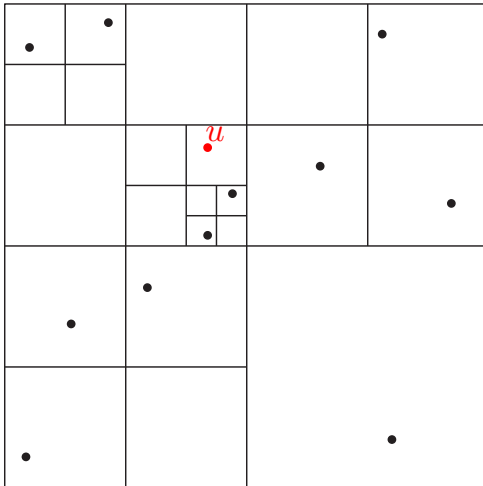


# Quad-Tree

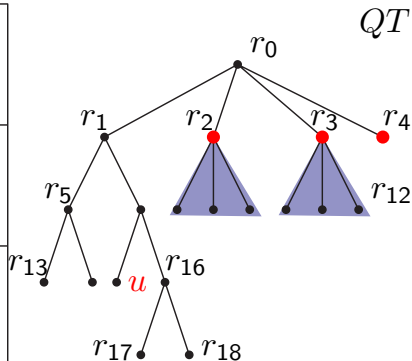
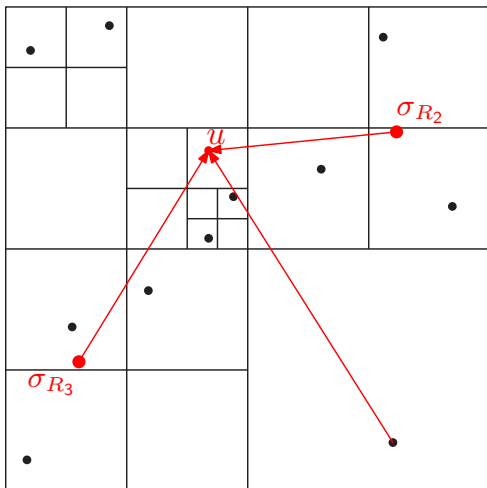




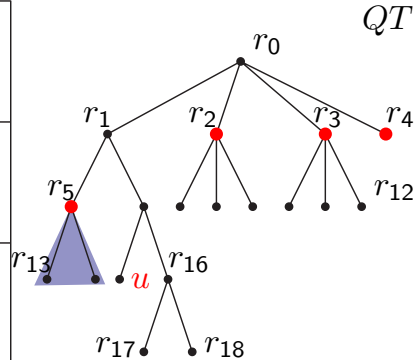
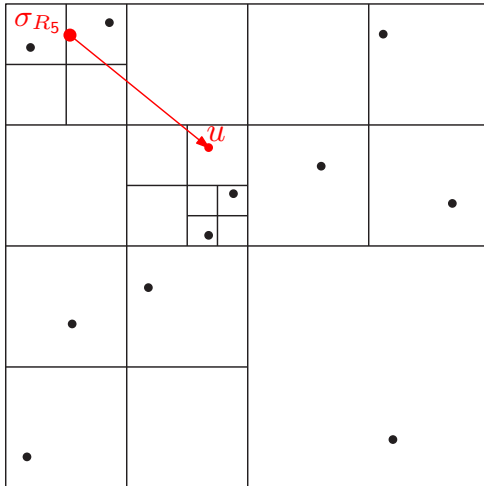
# Berechnung abstoßende Kräfte



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