

Vektorquantisierung

Ein anschauliches Beispiel

Symbolfolge



Bilder von www.siku.de

Bilden von Clustern



Bilder von www.siku.de

Detail-Informationen



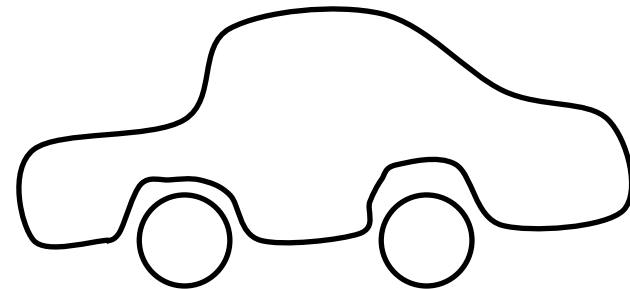
- Fabrikat
- Farbe
- Leistung
- Geschwindigkeit
- Preis
- u.S.w.

Bilder von www.siku.de

Abbildung auf Prototyp

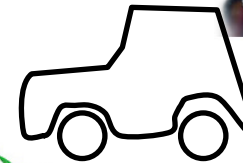
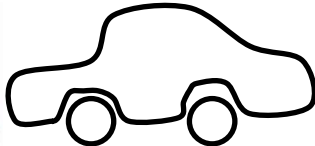
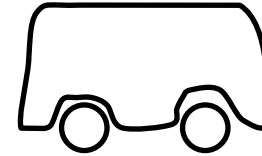
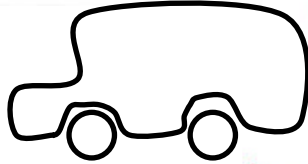


PKW



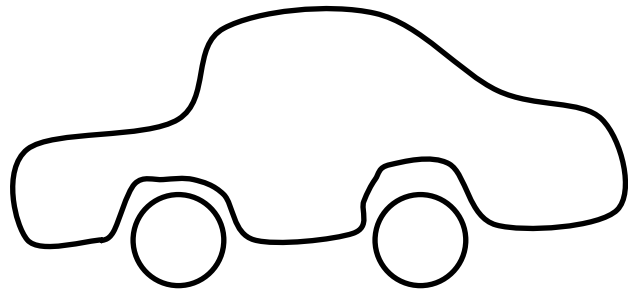
Bilder von www.siku.de

Prototypen

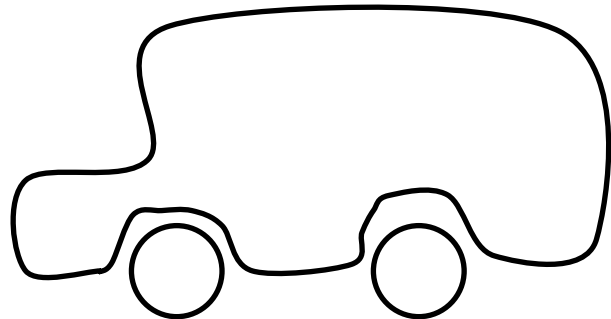


Bilder von www.siku.de

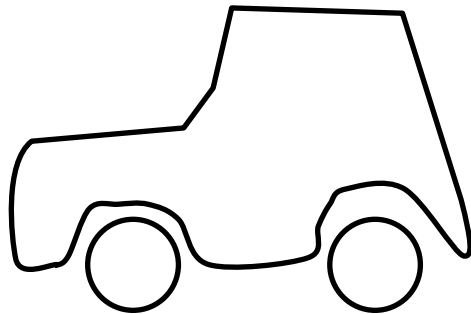
Prototypen (Repräsentanten)



PKW

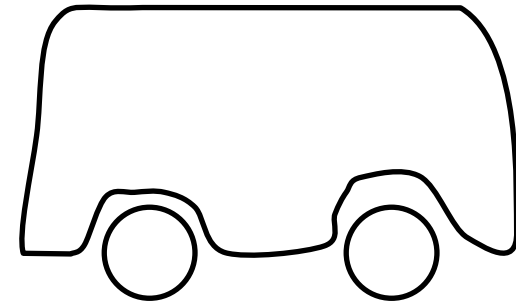


LKW

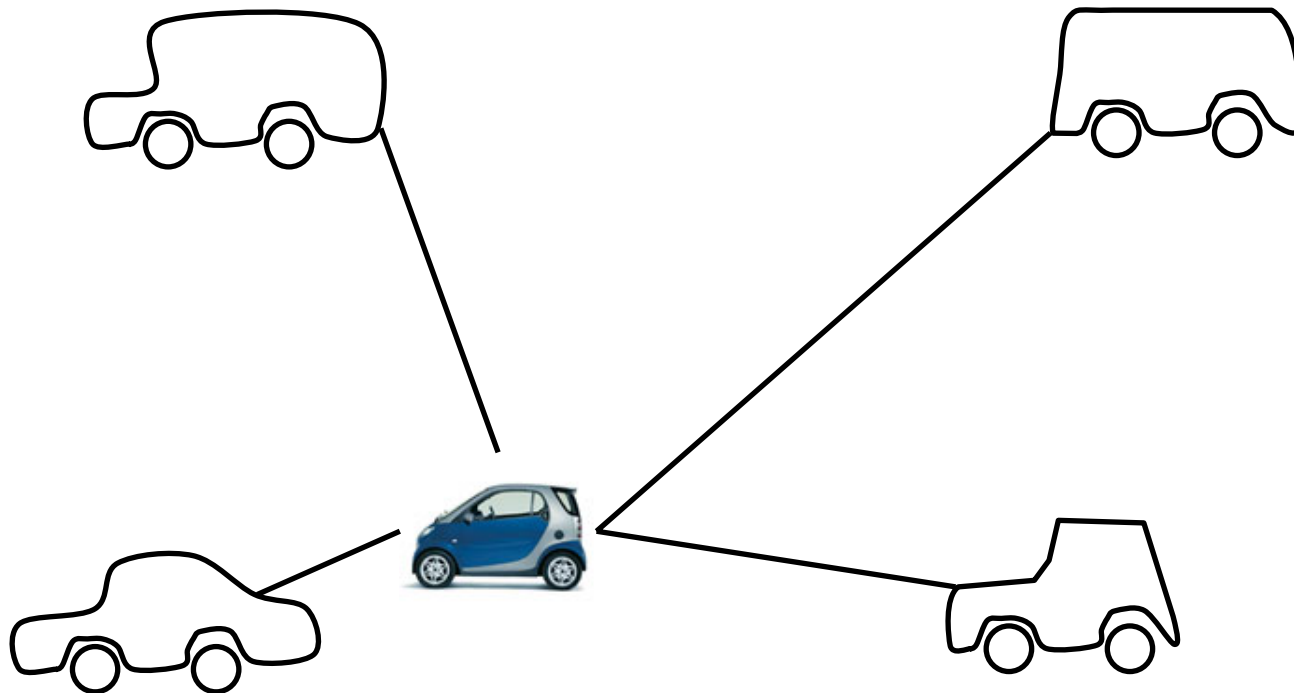


Traktor

Bus

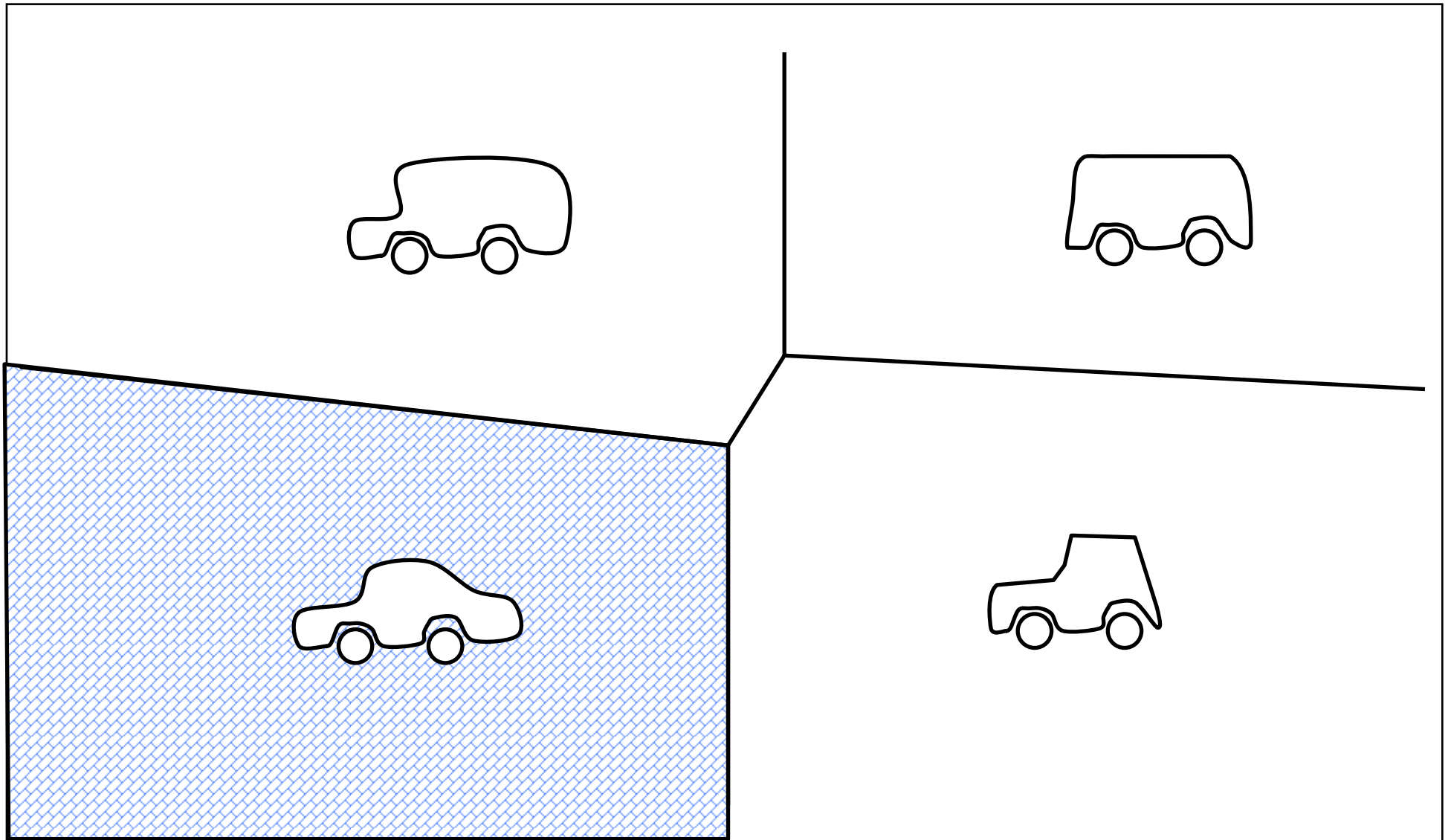


Suche nach kleinstem Abstand

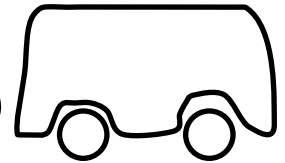
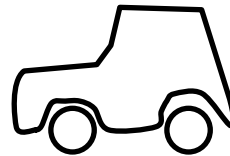
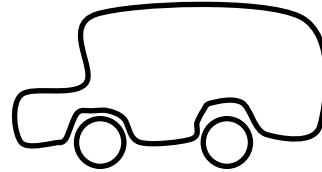
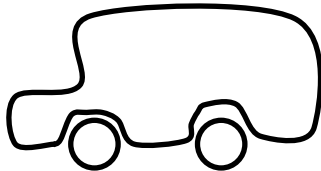
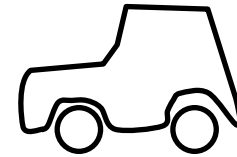
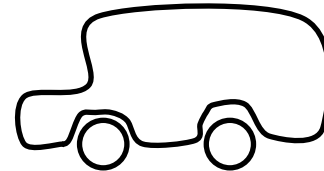
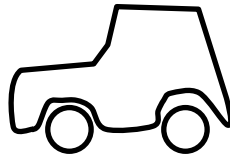
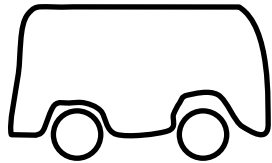


Bilder von www.siku.de

Aufteilung des Merkmalraums in Zellen

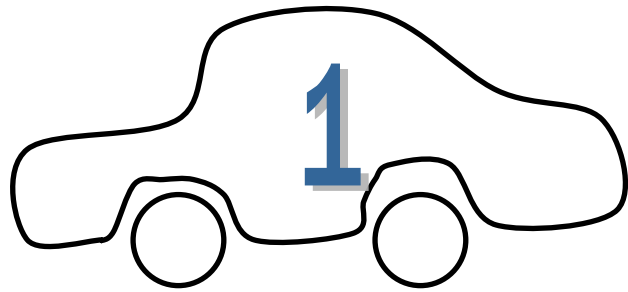


Quantisierung

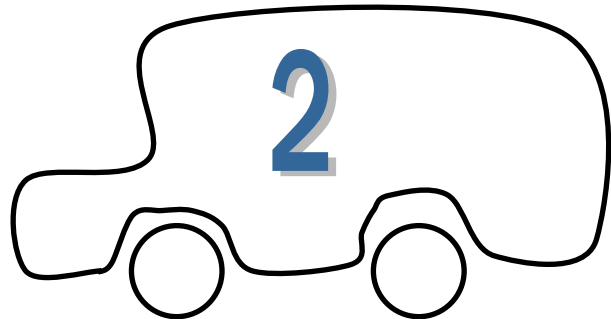


Bilder von www.siku.de

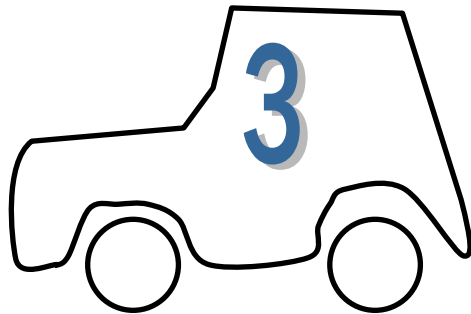
Nummerierung der Prototypen



PKW

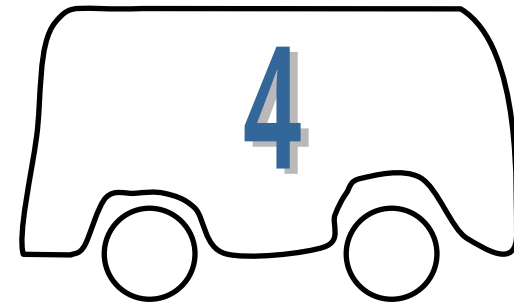


LKW



Traktor

Bus



Quantisierung



4



3



1



2



3



1



1



2



2



3



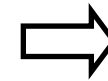
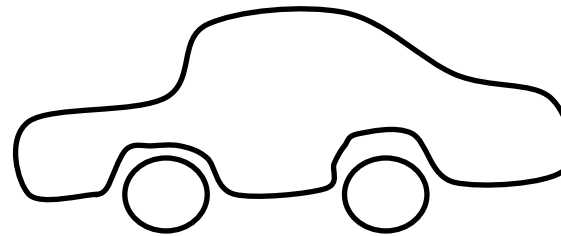
1



4

Bilder von www.siku.de

VQ



1

- Rot
- 450 cm lang
- 150 cm hoch
- 200 km/h Spitze
- 9 L/100km Verbrauch

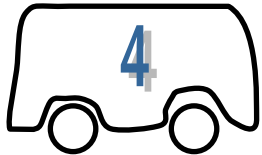
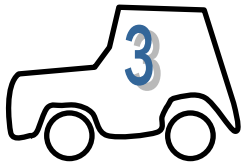
Ähnlichster Prototyp

Index

Bilder von www.siku.de

Informationen für Speicherung oder Übertragung

Codebuch



Indexfolge

4	3	1	2	3	1
1	2	2	3	1	4