

2006

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Kartografie in ArcGIS 9.2

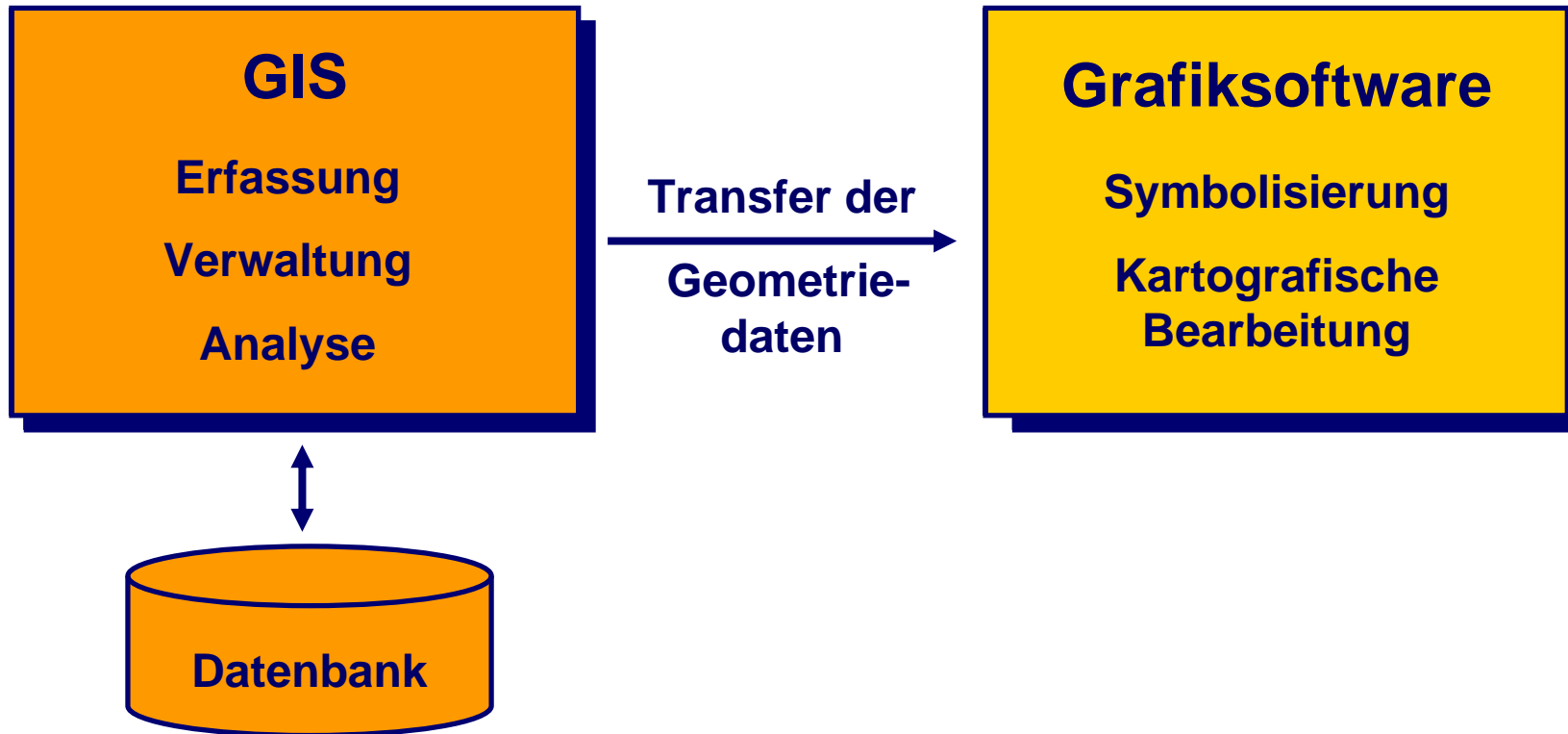
- Einleitung
- Konzept der Representations
- Demo mit ArcGIS 9.2 Beta I



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Einleitung

Erstellung qualitativ hochstehender Karten bis anhin

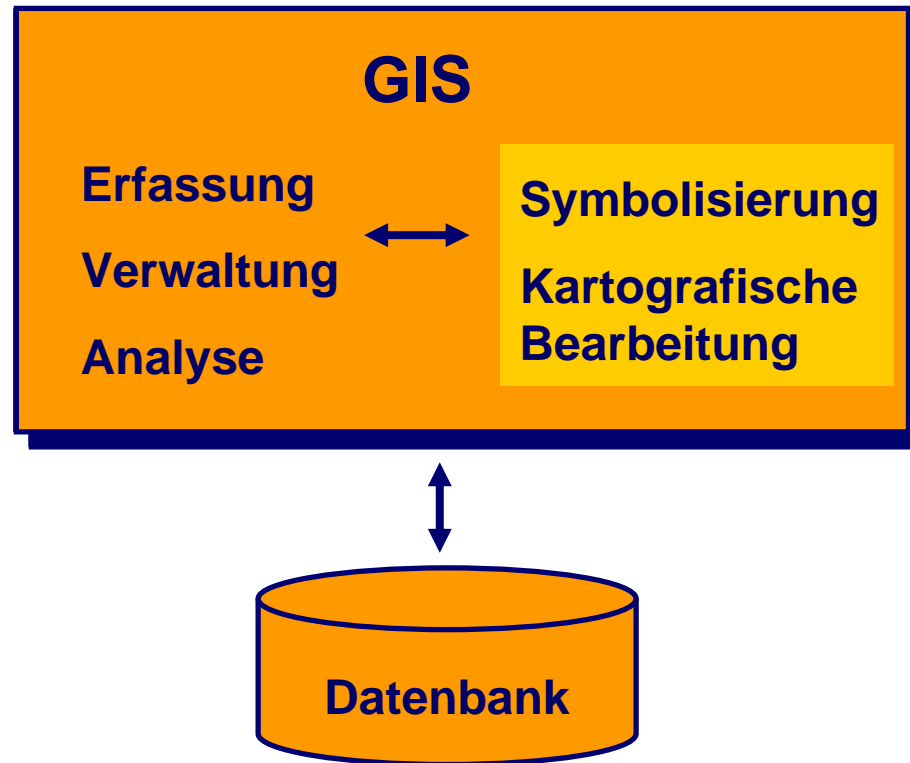


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Lösungsansatz

Erstellung qualitativ hochstehender Karten in ArcGIS 9.2

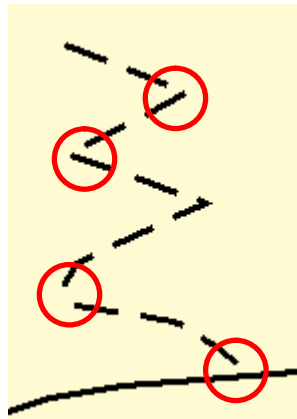


Konzept Representations in ArcGIS 9.2

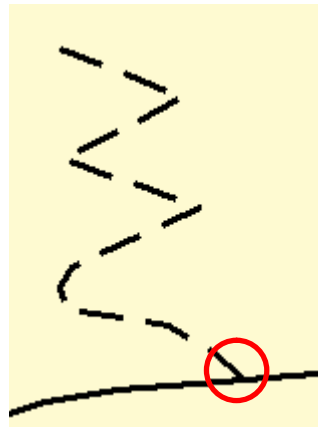
- **Speicherung der Grafik in Datenbank**
 - Datenbankmodell
 - Representation Rules
 - Overrides
- **GIS-Analyse-Tools für Automation**
 - Geoprocessing Tools
- **Intuitive Editing-Funktionen**
- **Free Representations**

Beispiel: Wanderweg

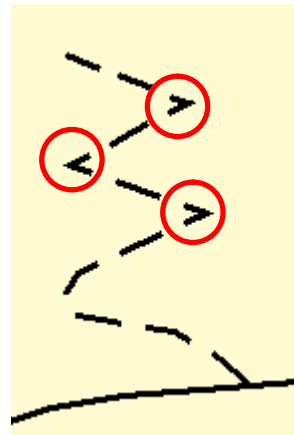
Lösung in 4 Schritten:



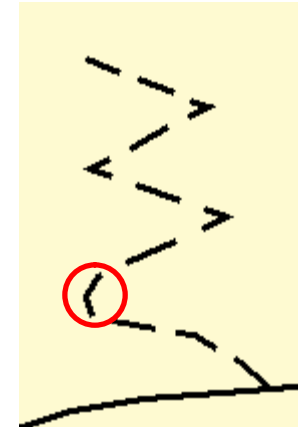
Ausgangslage:
GIS-Symbol



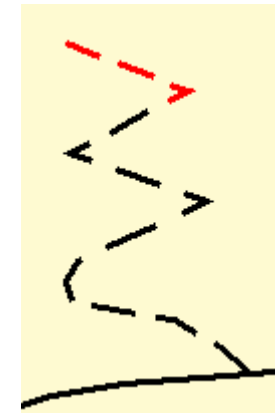
Schritt 1:
Representation
Rule



Schritt 2:
Geoprocessing
Tool

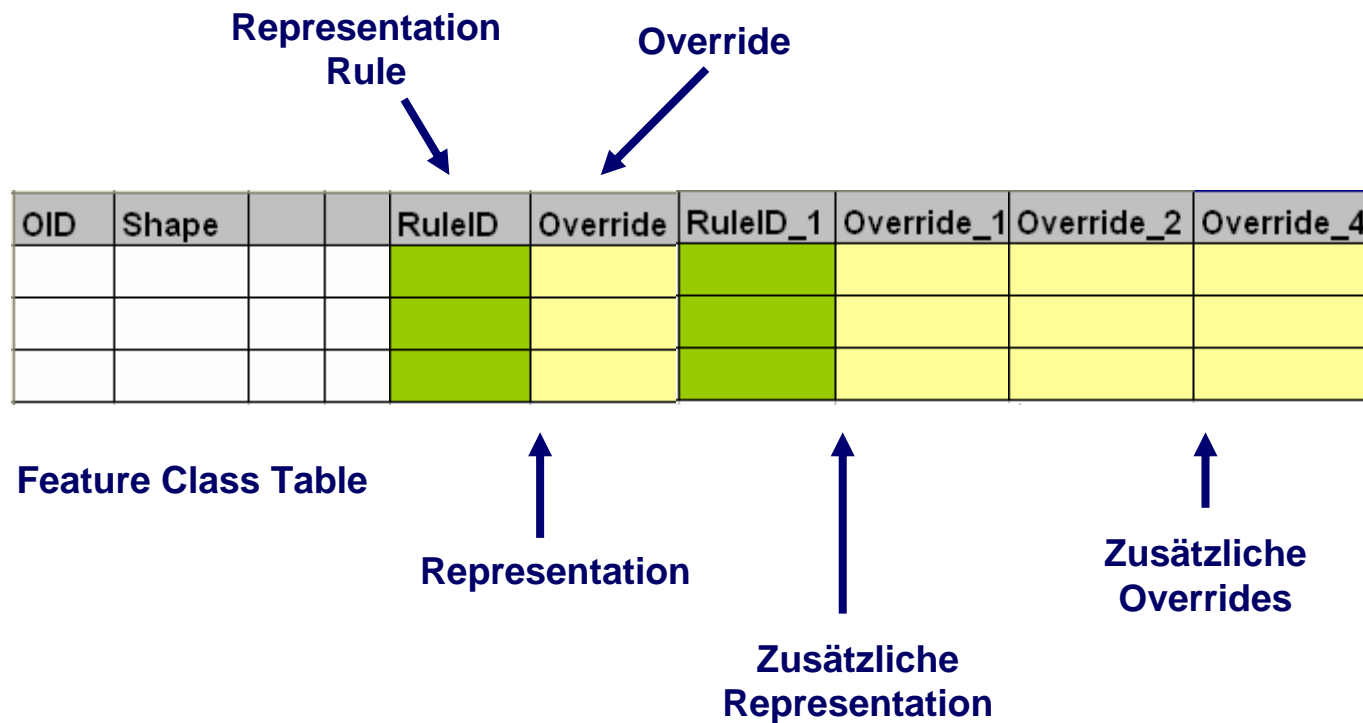


Schritt 3:
Manuelle
Bearbeitung



Schritt 4:
Free
Representation

Datenbankmodell



Representation Rules

The image shows the Representation Rules dialog box in ArcGIS. On the left, a list of rules is displayed:

- [1] Strasse 2m
- [2] Strasse 3m
- [3] Weg

The third rule, "[3] Weg", is selected and highlighted with a blue border. A red arrow labeled "RuleID" points to the first rule. A red arrow labeled "Rules" points to the list of rules. A red arrow labeled "Line layer" points to the "Layers" section of the dialog. On the right, the "Line layer" is expanded, showing the following properties:

- Dashes:** Pattern: 4 2, Endings: With full pattern
- Line:** Width: 0.5, Caps: Butt, Joins: Miter, Color: Black

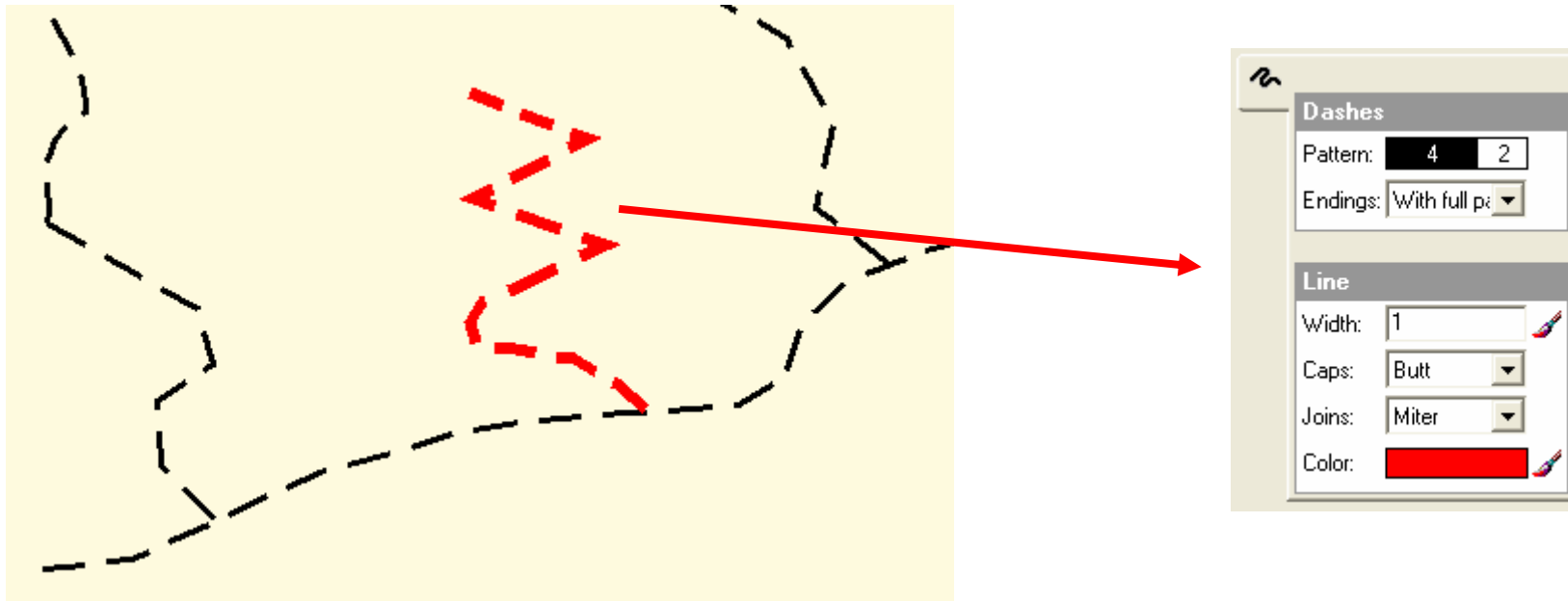
Red arrows point from labels to these properties:

- "Symbol layers" points to the "Layers" section header.
- "Geometric Effect" points to the "Dashes" section.
- "Graphic Attributes" points to the "Line" section.

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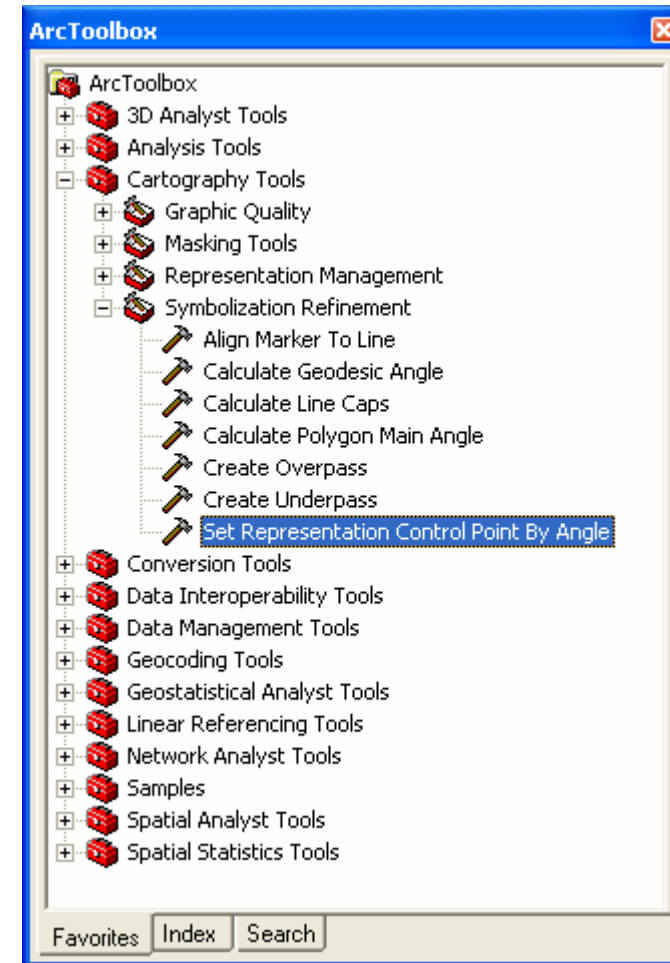
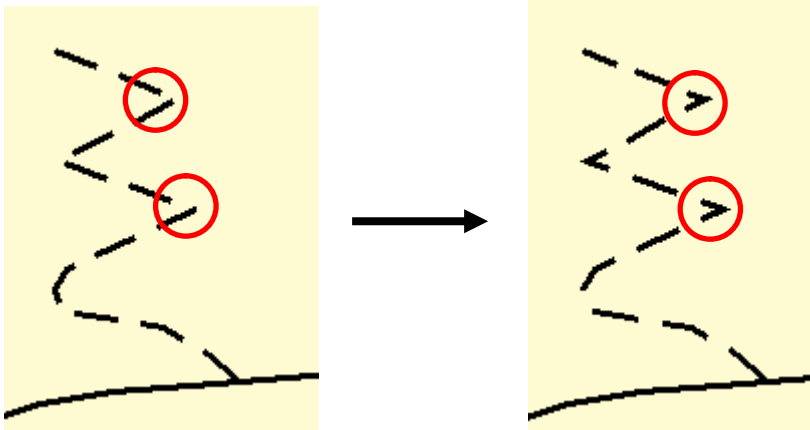
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Ausnahmen: Overrides



Automation: Geoprocessing

Beispiel: Set Representation Control Point By Angle

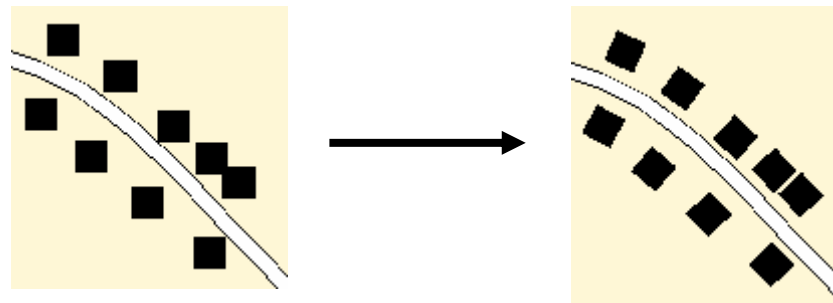


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Automation: Geoprocessing

Beispiel: Align Marker To Line

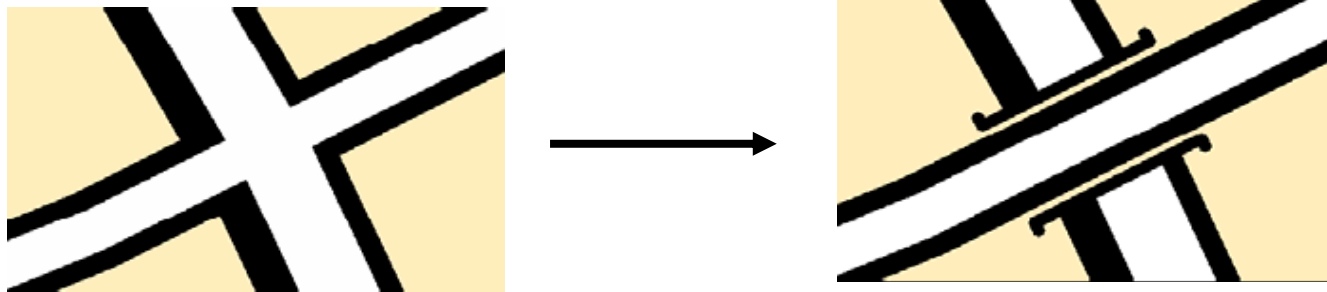


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Automation: Geoprocessing

Beispiele: Create Overpass, Create Underpass



Automation: Customization

Entwicklung von

- Geoprocessing Tools
- Geometric Effects
- Marker Placement Styles

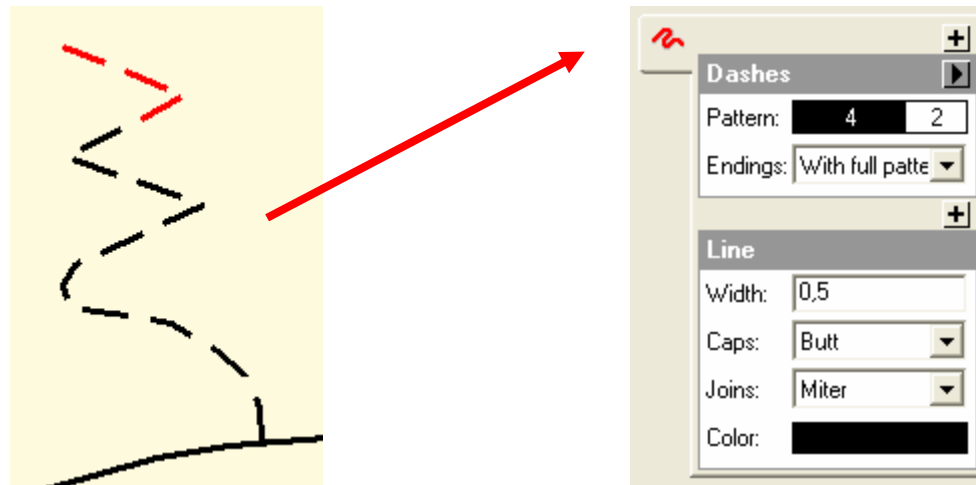
```
Private Sub UIToolControl1_DblClick()  
    Dim pGeomLn As IGeometry  
  
    'Get the geometry (Line) returned from the feedback  
    Set pGeomLn = m_pNewBzCurveFeedback.Stop  
  
    ' If geom is valid, then add it to the edit sketch  
    If Not pGeomLn Is Nothing Then  
        ' update the sketch with the geometry  
        Dim pSketchOp As ISketchOperation  
        Set pSketchOp = New SketchOperation  
        pSketchOp.Start m_pEditor  
        Dim pSegColl As ISegmentCollection  
        Set pSegColl = m_pEdSketch.Geometry  
        If m_pEdSketch.GeometryType = esriGeometryPolyline Then  
            pSegColl.AddSegmentCollection pGeomLn  
        Else ' point (or no existing sketch?)  
            MsgBox "point or no existing sketch"  
        End If  
  
        Set m_pEdSketch.Geometry = pSegColl  
        pSketchOp.Finish m_pEdSketch.Geometry.Envelope  
        m_pEdSketch.RefreshSketch  
  
        ' this probably works, but now this is immediately reversed  
        Set m_pNewBzCurveFeedback = Nothing  
  
        ' AddCreateElement pGeomLn, m_pAV  
        ' m_pAV.Refresh  
    End If  
  
    ' Set the feedback to nothing for the next use  
    Set m_pNewBzCurveFeedback = Nothing  
End Sub
```


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Free Representations

- Vollkommen losgelöst von Regeln
- Reine Grafik
- Bearbeitung wie in einem Grafikprogramm



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Kartografie in ArcGIS 9.2

Demo mit ArcGIS 9.2 Beta 1



Die Sprache
der Erde


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Kartografie in ArcGIS 9.2

Vielen Dank für ihre Aufmerksamkeit!



Die Sprache
der Erde

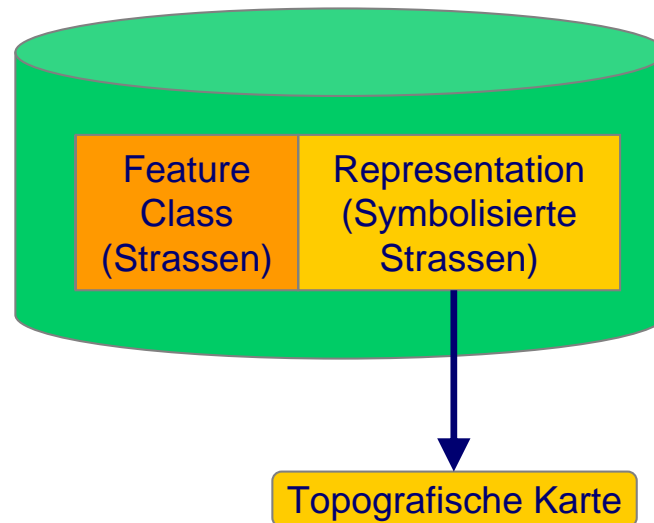
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Multirepräsentation

Einfacher Fall: nur eine Repräsentation

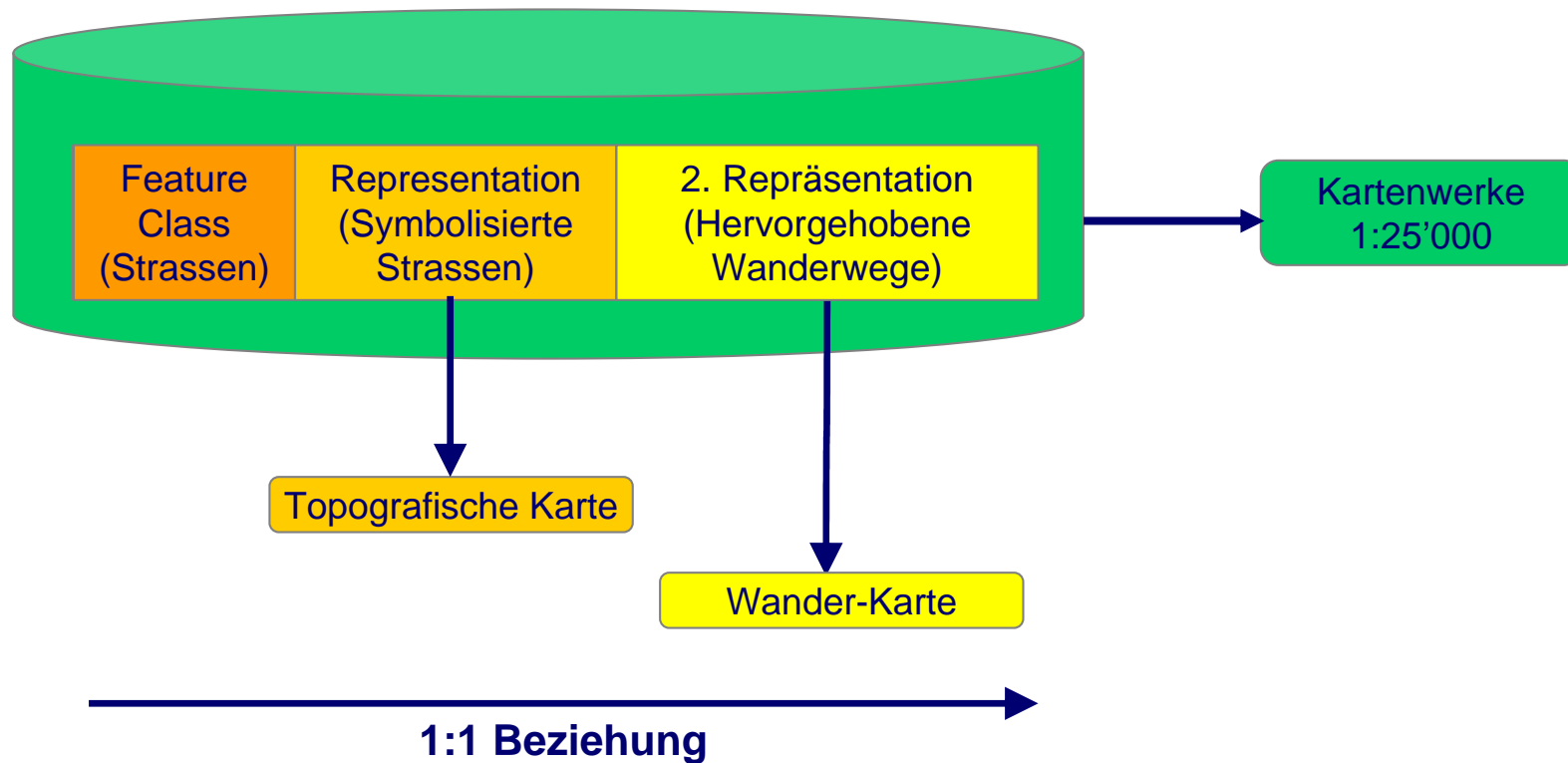


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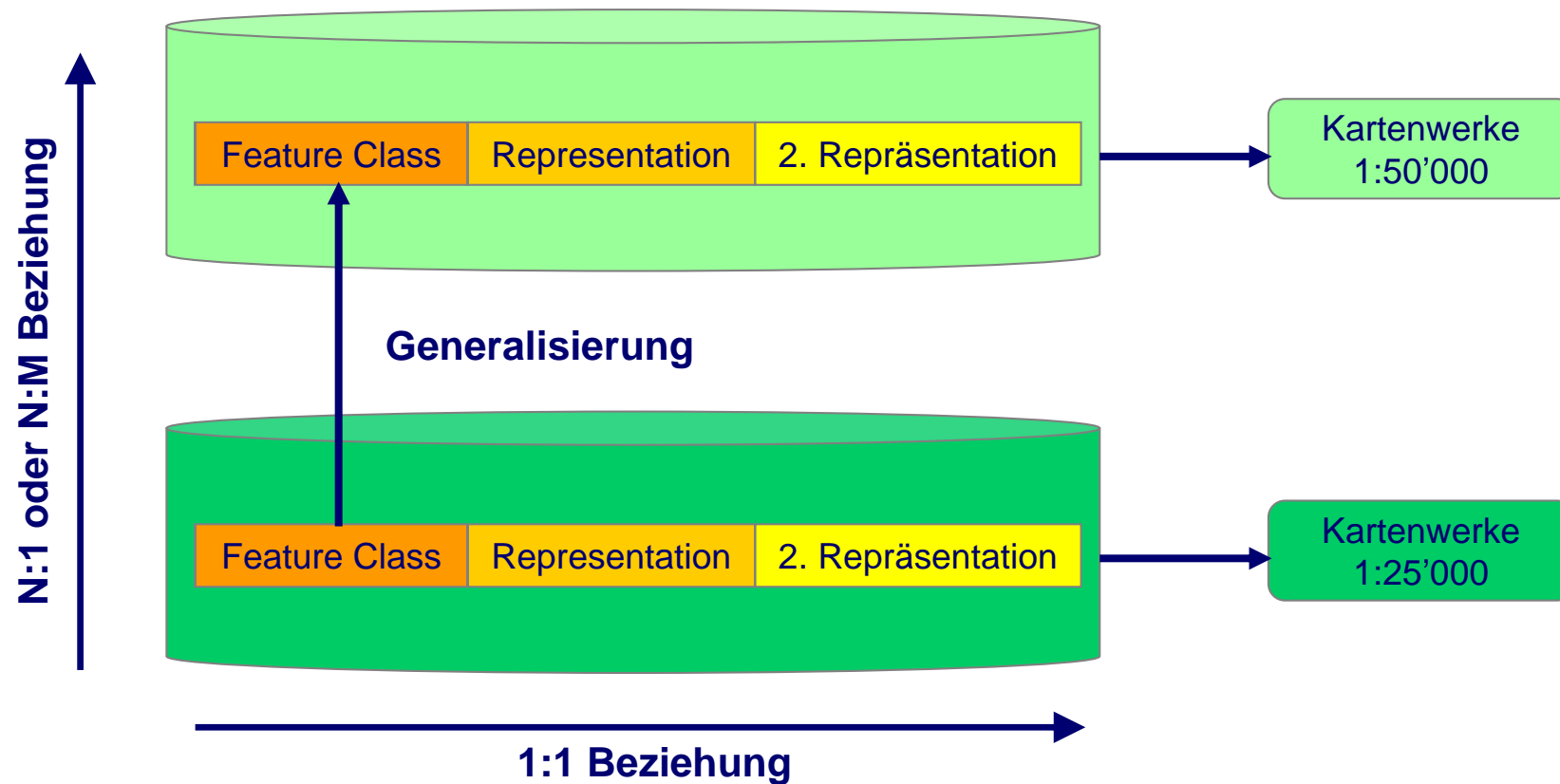
Multirepräsentation

Multirepräsentation im selben Massstab



Multirepräsentation

Multirepräsentation über verschiedene Massstäbe



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Qualitätsüberprüfung

Geoprocessing Tool „Detect Graphic Conflict“

