

Data Visualization and Visual Analytics Inkscape

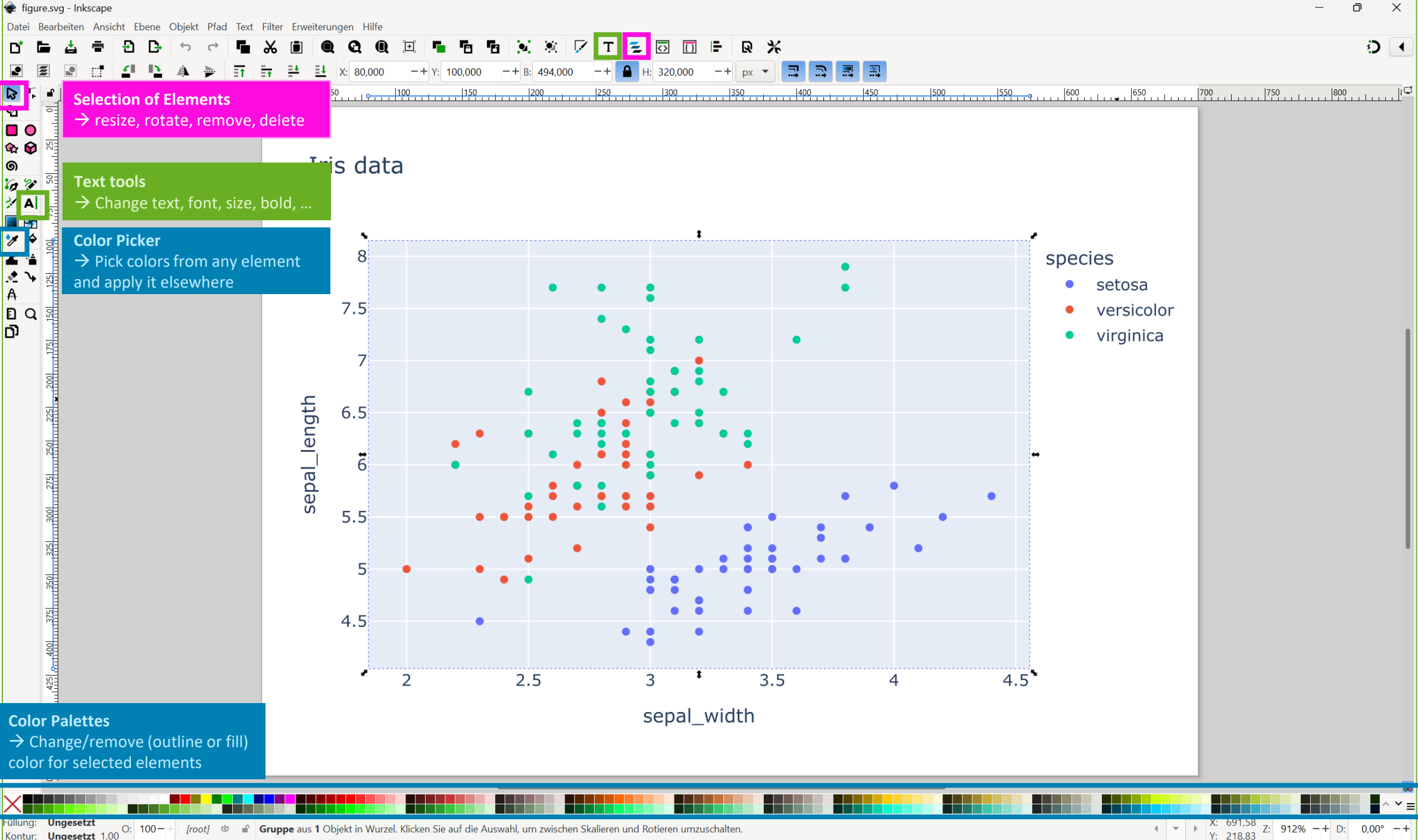
Study Program Data Science
Prof. Dr. Tillmann Schwörer

Manual finetuning of svg output

We can use the free and open-source software **Inkscape** to manually finetune Plotly or Matplotlib figures that are exported in a **vector graphics** format (svg, pdf) format

The software has a lot of features.

The most important ones are highlighted on the next slides.



Selection of Elements

→ resize, rotate, remove, delete

Text tools

→ Change text, font, size, bold, ...

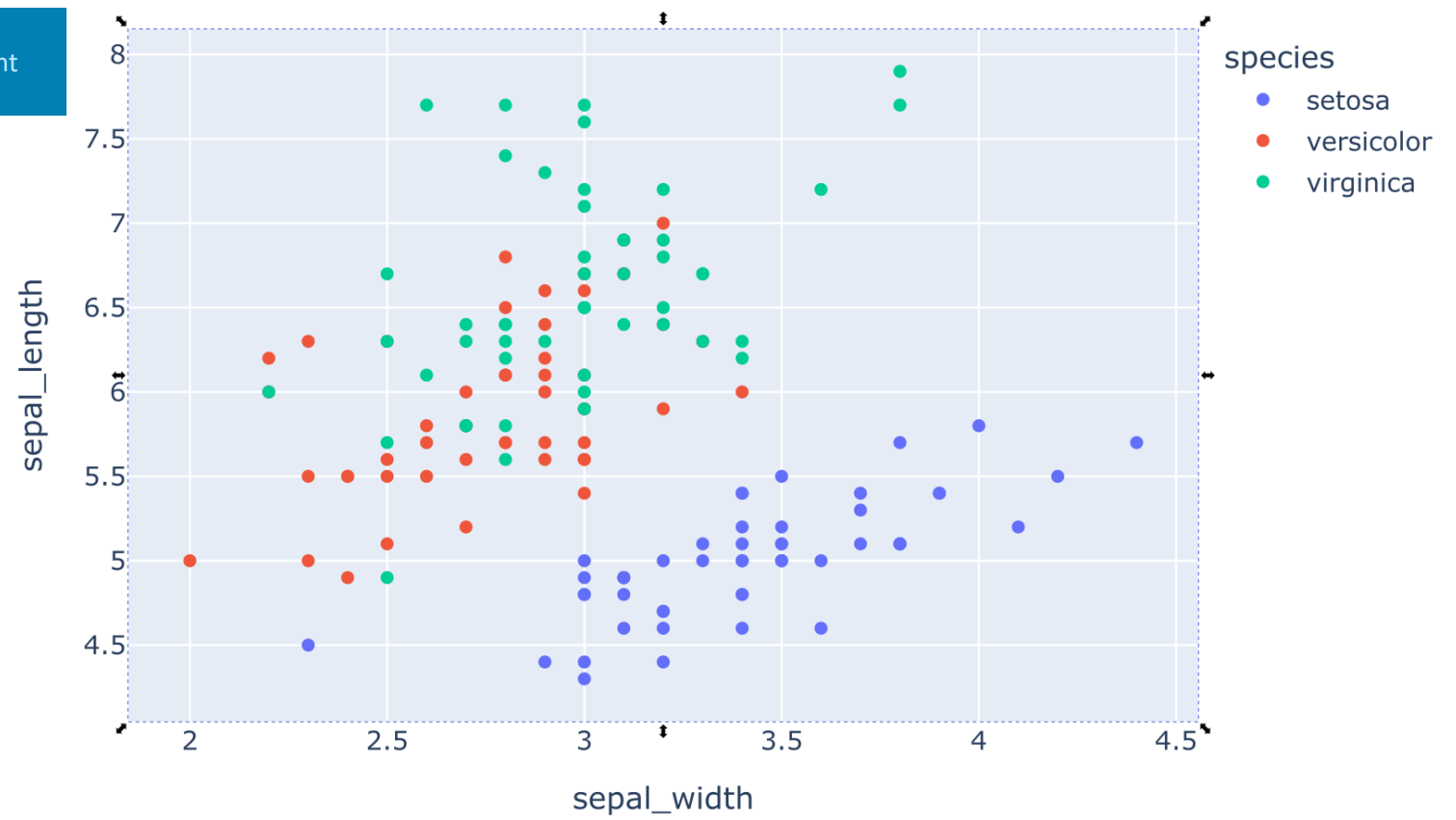
Color Picker

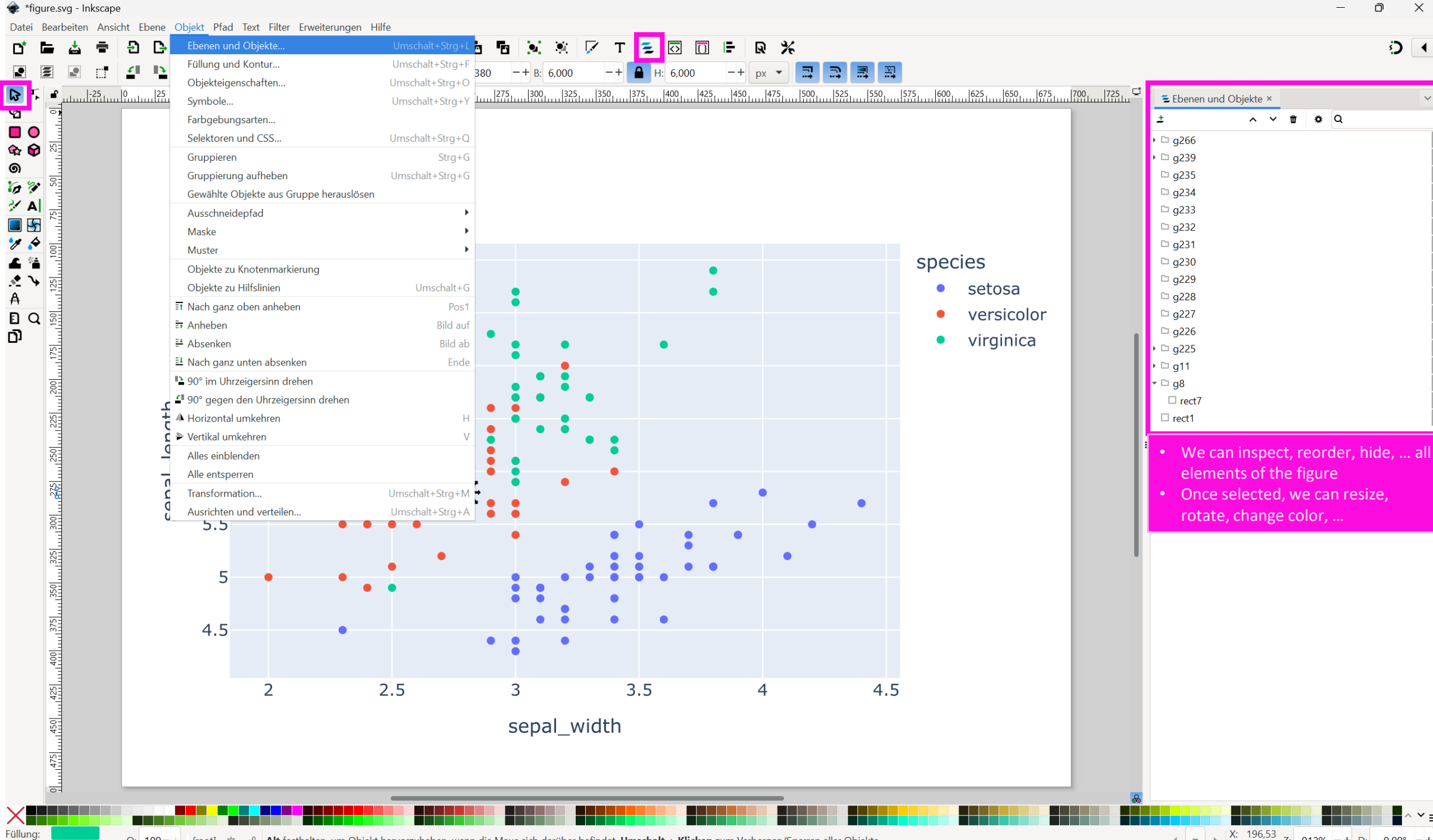
→ Pick colors from any element and apply it elsewhere

Color Palettes

→ Change/remove (outline or fill) color for selected elements

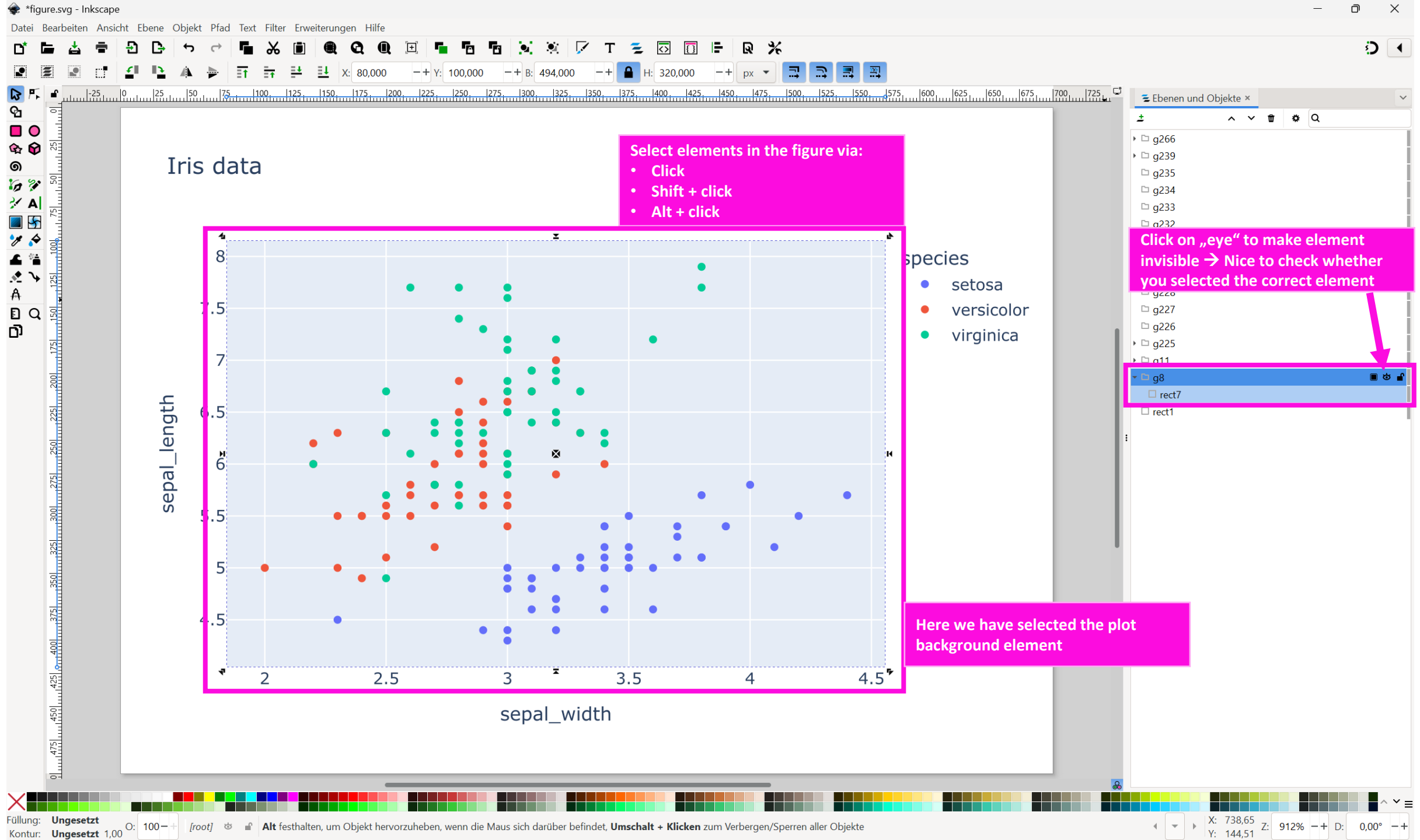
This data

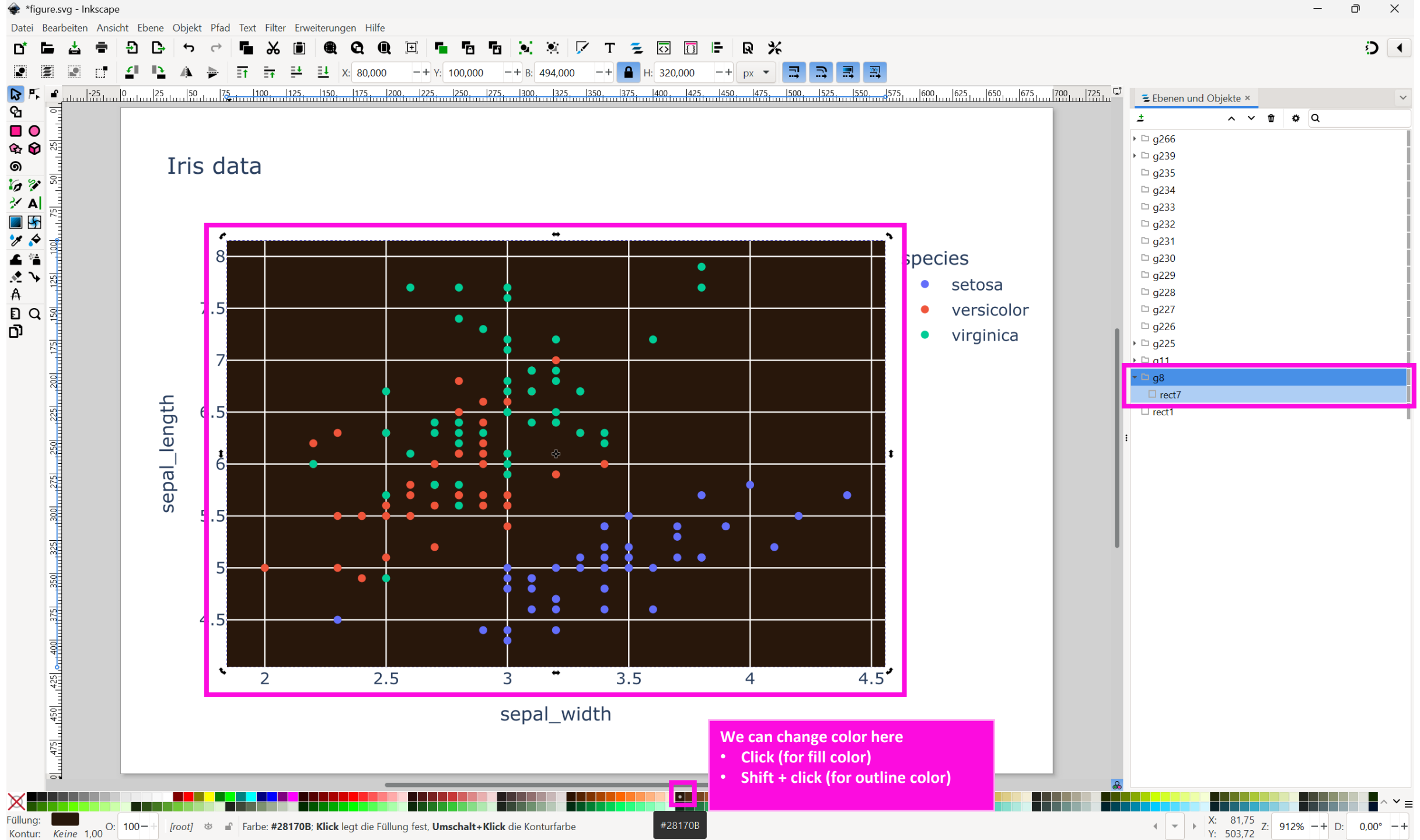




• We can inspect, reorder, hide, ... all elements of the figure

• Once selected, we can resize, rotate, change color, ...



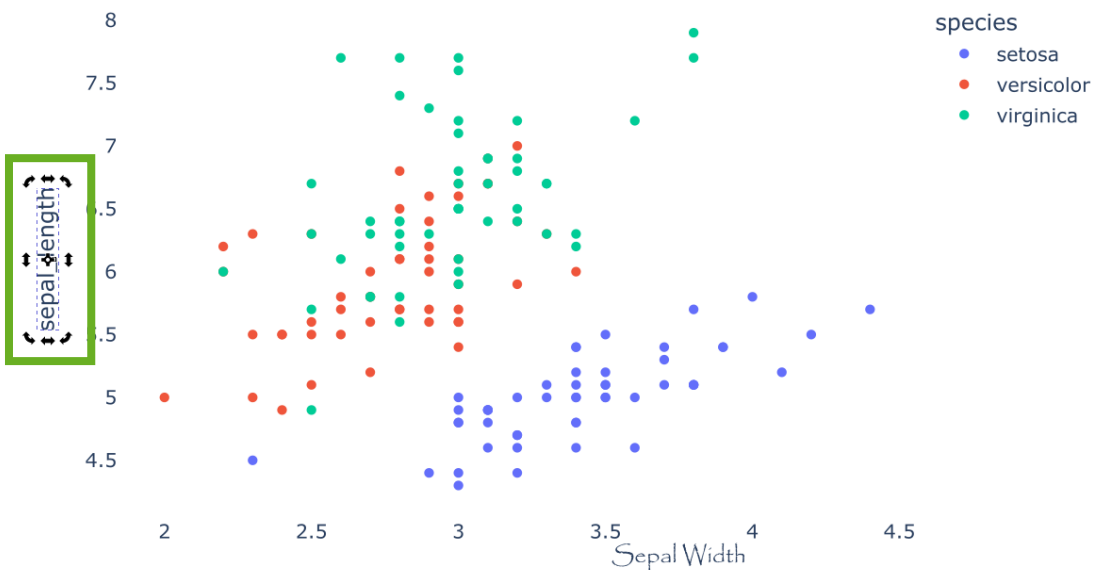




Once we have selected a text element, we can use the text tool to edit the text:

- Font
- Size
- Bold
- ...

Iris data



T Text und Schriftart

Schrift Eigenschaften Text

Q Sammlungen

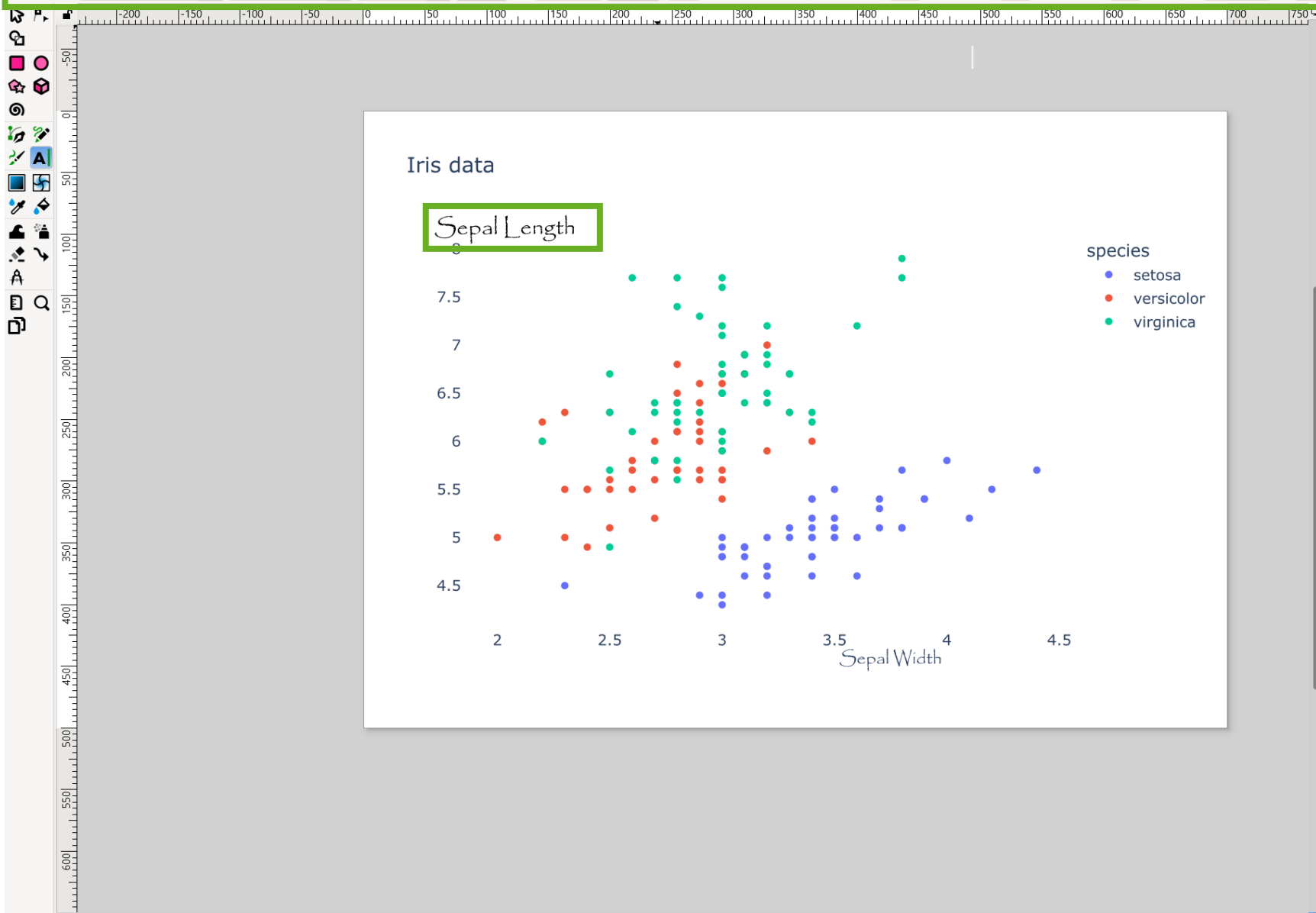
Alle Schriftarten

Schriftfamilie	Stil	Face
Open Sans, verdana, arial, sans serif	Normal	Normal
Arial	Normal	Normal
Bahnschrift	Normal	Normal
Book Antiqua	Normal	Normal
Bookman Old Style	Normal	Normal
Bookshelf Symbol 7	Normal	Normal
Bradley Hand ITC	Normal	Normal
Calibri	Normal	Normal
Cambria	Normal	Normal
Cambria Math	Normal	Normal
Candara	Normal	Normal
Century	Normal	Normal
Century Gothic	Normal	Normal
Comic Sans MS	Normal	Normal
Consolas	Normal	Normal
Constantia	Normal	Normal
Corbel	Normal	Normal
Courier New	Normal	Normal
Dubai	Normal	Normal
Ebrima	Normal	Normal
Franklin Gothic Medium	Normal	Normal
Freestyle Script	Normal	Normal
French Script MT	Normal	Normal
Gabriola	Normal	Normal
Gadugi	Normal	Normal
Garamond	Normal	Normal
Georgia	Normal	Normal
Haettenschweiler	Normal	Normal
Impact	Normal	Normal
Ink Free	Normal	Normal
Javanese Text	Normal	Normal
Juice ITC	Normal	Normal
Kristen ITC	Normal	Normal

Schriftgröße 10.5

sepal_length

Als Standard festlegen Anwenden



T Text und Schriftart x

Schrift Eigenschaften Text

Q Sammlungen

Alle Schriftarten

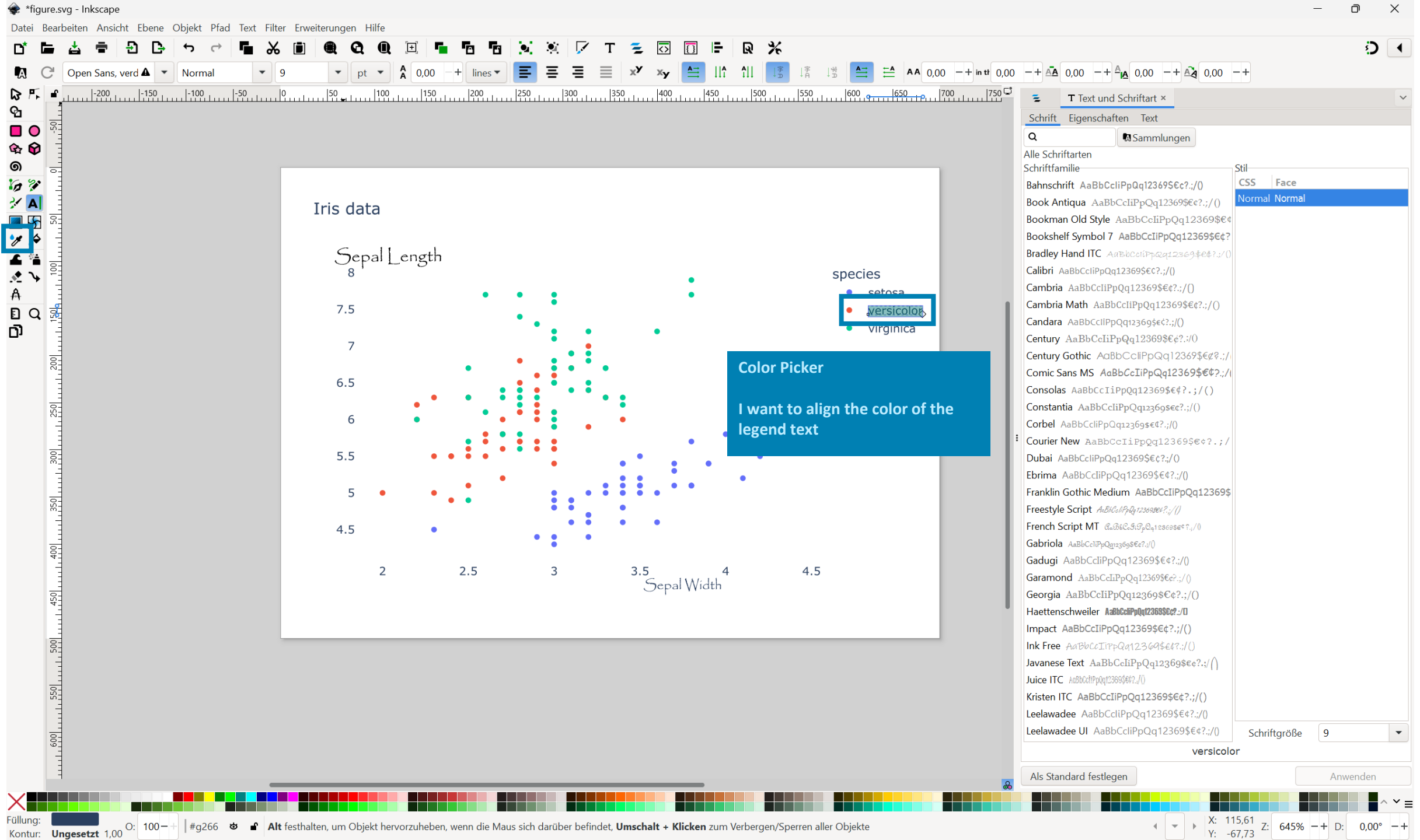
Schriftfamilie

	Stil
	CSS Face
Bahnschrift	AaBbCcIiPpQq12369\$€¢?;/()
Book Antiqua	AaBbCcIiPpQq12369\$€¢?;/()
Bookman Old Style	AaBbCcIiPpQq12369\$€¢?;/()
Bookshelf Symbol 7	AaBbCcIiPpQq12369\$€¢?;/()
Bradley Hand ITC	AaBbCcIiPpQq12369\$€¢?;/()
Calibri	AaBbCcIiPpQq12369\$€¢?;/()
Cambria	AaBbCcIiPpQq12369\$€¢?;/()
Cambria Math	AaBbCcIiPpQq12369\$€¢?;/()
Candara	AaBbCcIiPpQq12369\$€¢?;/()
Century	AaBbCcIiPpQq12369\$€¢?;/()
Century Gothic	AaBbCcIiPpQq12369\$€¢?;/()
Comic Sans MS	AaBbCcIiPpQq12369\$€¢?;/()
Consolas	AaBbCcIiPpQq12369\$€¢?;/()
Constantia	AaBbCcIiPpQq12369\$€¢?;/()
Corbel	AaBbCcIiPpQq12369\$€¢?;/()
Courier New	AaBbCcIiPpQq12369\$€¢?;/()
Dubai	AaBbCcIiPpQq12369\$€¢?;/()
Ebrima	AaBbCcIiPpQq12369\$€¢?;/()
Franklin Gothic Medium	AaBbCcIiPpQq12369\$€¢?;/()
Freestyle Script	AaBbCcIiPpQq12369\$€¢?;/()
French Script MT	AaBbCcIiPpQq12369\$€¢?;/()
Gabriola	AaBbCcIiPpQq12369\$€¢?;/()
Gadugi	AaBbCcIiPpQq12369\$€¢?;/()
Garamond	AaBbCcIiPpQq12369\$€¢?;/()
Georgia	AaBbCcIiPpQq12369\$€¢?;/()
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Impact	AaBbCcIiPpQq12369\$€¢?;/()
Ink Free	AaBbCcIiPpQq12369\$€¢?;/()
Javanese Text	AaBbCcIiPpQq12369\$€¢?;/()
Juice ITC	AaBbCcIiPpQq12369\$€¢?;/()
Kristen ITC	AaBbCcIiPpQq12369\$€¢?;/()
Leelawadee	AaBbCcIiPpQq12369\$€¢?;/()

Schriftgröße 14

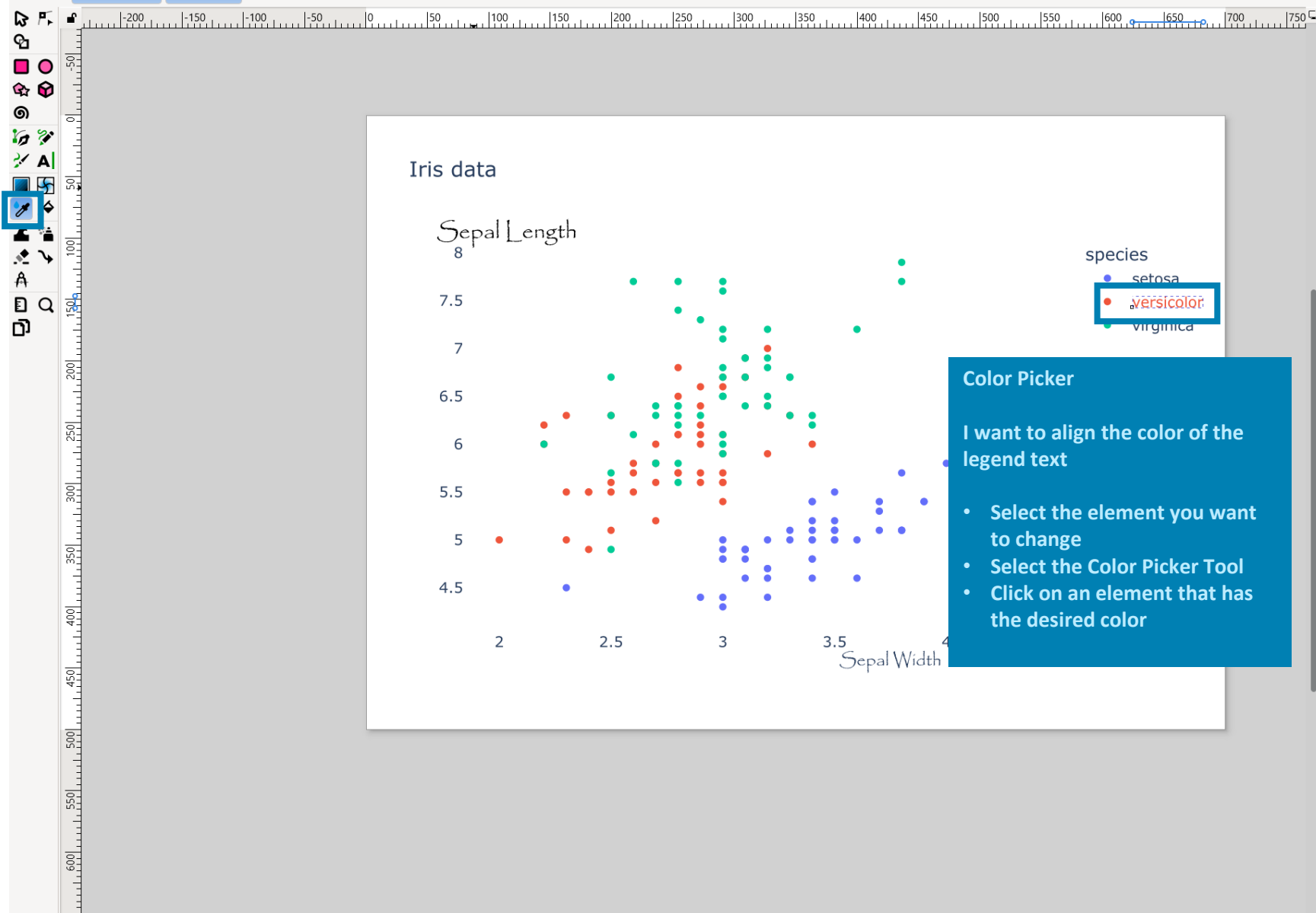
Sepal Length

Als Standard festlegen Anwenden





Deckkraft Aufnehmen Zuweisen



T Text und Schriftart x

Schrift Eigenschaften Text

Q Sammlungen

Alle Schriftarten

Schriftfamilie

Open Sans, verdana, arial, sans-serif Arial

Arial AaBbCcIiPpQq12369\$€¢?./()

Bahnschrift AaBbCcIiPpQq12369\$€¢?./()

Book Antiqua AaBbCcIiPpQq12369\$€¢?./()

Bookman Old Style AaBbCcIiPpQq12369\$€¢?./()

Bookshelf Symbol 7 AaBbCcIiPpQq12369\$€¢?./()

Bradley Hand ITC AaBbCcIiPpQq12369\$€¢?./()

Calibri AaBbCcIiPpQq12369\$€¢?./()

Cambria AaBbCcIiPpQq12369\$€¢?./()

Cambria Math AaBbCcIiPpQq12369\$€¢?./()

Candara AaBbCcIiPpQq12369\$€¢?./()

Century AaBbCcIiPpQq12369\$€¢?./()

Century Gothic AaBbCcIiPpQq12369\$€¢?./()

Comic Sans MS AaBbCcIiPpQq12369\$€¢?./()

Consolas AaBbCcIiPpQq12369\$€¢?./()

Constantia AaBbCcIiPpQq12369\$€¢?./()

Corbel AaBbCcIiPpQq12369\$€¢?./()

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Dubai AaBbCcIiPpQq12369\$€¢?./()

Ebrima AaBbCcIiPpQq12369\$€¢?./()

Franklin Gothic Medium AaBbCcIiPpQq12369\$€¢?./()

Freestyle Script AaBbCcIiPpQq12369\$€¢?./()

French Script MT AaBbCcIiPpQq12369\$€¢?./()

Gabriola AaBbCcIiPpQq12369\$€¢?./()

Gadugi AaBbCcIiPpQq12369\$€¢?./()

Garamond AaBbCcIiPpQq12369\$€¢?./()

Georgia AaBbCcIiPpQq12369\$€¢?./()

Haettenschweiler AaBbCcIiPpQq12369\$€¢?./()

Impact AaBbCcIiPpQq12369\$€¢?./()

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Javanese Text AaBbCcIiPpQq12369\$€¢?./()

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Kristen ITC AaBbCcIiPpQq12369\$€¢?./()

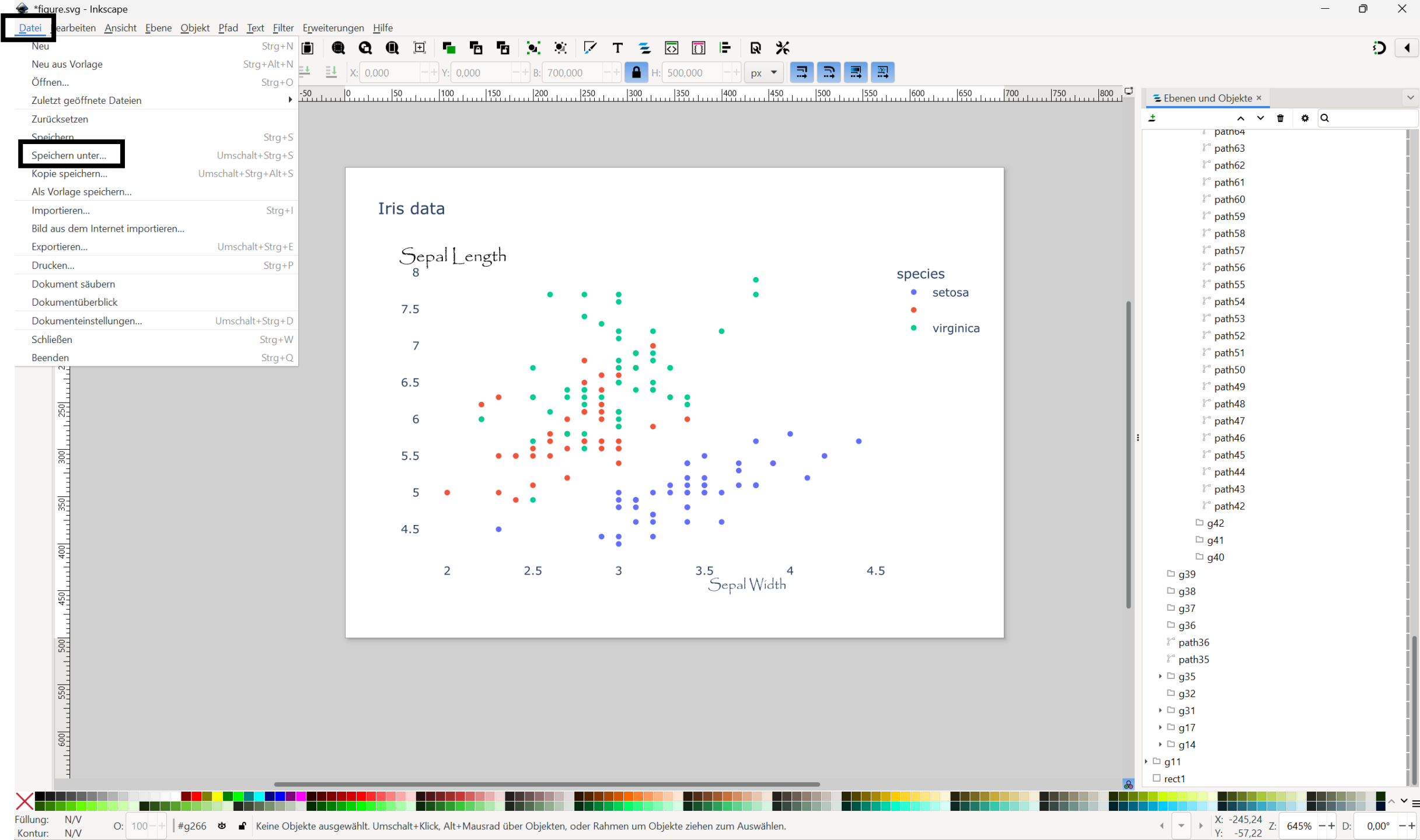
Stil CSS Face

Normal Normal

Schriftgröße 9

versicolor

Als Standard festlegen Anwenden



Inkscape SVG

Use this for full support of all
inkscape features [for further edits](#)



Inkscape-SVG (*.svg)
Normales SVG (*.svg)
Komprimiertes Inkscape-SVG (*.svgz)
Komprimiertes SVG (*.svgz)
Optimiertes SVG (*.svg)
PDF (*.pdf)
Komprimiertes Inkscape-SVG mit Medien (*.zip)
Ebenen als einzelne SVGs (*.tar)
Desktop-Schneideplotter (AutoCAD DXF R12) (*.dxf)
Desktop-Schneideplotter (AutoCAD DXF R14) (*.dxf)
Encapsulated Postscript (*.eps)
Erweiterte Metadatei (*.emf)
Flash XML-Grafik (*.fxg)
GIMP-Palette (*.gpl)
HP Graphics Language-Datei (*.hpgl)
HTML5-Canvas-Element (*.html)
JessyInk, gepackte PDF- oder PNG-Ausgabe (*.zip)
LaTeX mit PSTricks-Makros (*.tex)
Microsoft XAML (*.xaml)
OpenDocument-Zeichnung (*.odg)
PostScript (*.ps)
PovRay (*.pov) (nur Pfade und Formen)
Synfig-Animation (*.sif)
Windows-Metadatei (*.wmf)
Inkscape-SVG (*.svg)

Normal SVG

Use this in the end, for usage
outside of inkscape



Speichern

Abbrechen

Much more possibilities to be explored...!