

clip\_8

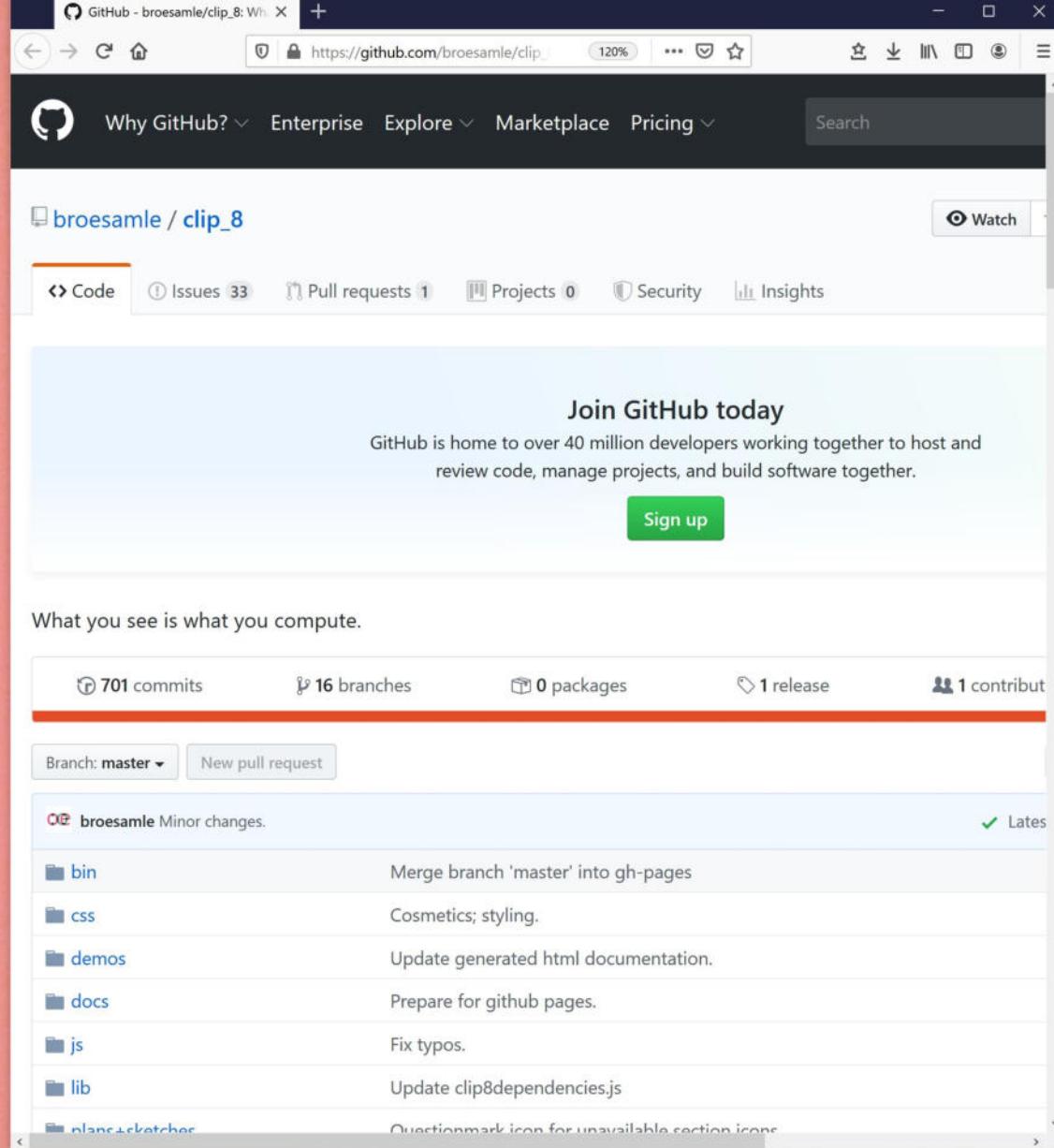
# Demo Session Screenshots

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The screenshot shows a GitHub repository page for 'broesamle / clip\_8'. At the top, there's a navigation bar with links to 'Why GitHub?', 'Enterprise', 'Explore', 'Marketplace', 'Pricing', and a search bar. Below the header, the repository name 'broesamle / clip\_8' is displayed, along with a 'Watch' button. A navigation bar below the repository name includes 'Code' (selected), 'Issues 33', 'Pull requests 1', 'Projects 0', 'Security', and 'Insights'. A large central area features a call-to-action for 'Join GitHub today' with a 'Sign up' button. Below this, a message says 'What you see is what you compute.' A summary bar at the top provides metrics: 701 commits, 16 branches, 0 packages, 1 release, and 1 contributor. A dropdown menu shows the current branch is 'master'. A 'New pull request' button is also present. The main content area lists recent commits:

- bin: Merge branch 'master' into gh-pages
- css: Cosmetics; styling.
- demos: Update generated html documentation.
- docs: Prepare for github pages.
- js: Fix typos.
- lib: Update clip8dependencies.js
- plans&sketches: Questionmark icon for unavailable section icons

At the bottom right, there's a timestamp '13:51'.



[https://github.com/broesamle/clip\\_8](https://github.com/broesamle/clip_8)

The screenshot shows a GitHub repository page for 'broesamle / clip\_8'. The URL 'https://github.com/broesamle/clip\_8' is highlighted in a red oval at the top of the browser window. The page header includes the GitHub logo, navigation links for 'Why GitHub?', 'Enterprise', 'Explore', 'Marketplace', 'Pricing', and a search bar. A 'Watch' button is located in the top right corner. The repository name 'broesamle / clip\_8' is displayed above a navigation bar with tabs for 'Code' (selected), 'Issues 33', 'Pull requests 1', 'Projects 0', 'Security', and 'Insights'. A large 'Join GitHub today' banner with a 'Sign up' button is prominently displayed. Below the banner, the repository statistics are shown: 701 commits, 16 branches, 0 packages, 1 release, and 1 contributor. A dropdown menu for the 'master' branch is open, showing options like 'New pull request'. The repository's contents are listed in a table, including 'bin' (Merge branch 'master' into gh-pages), 'css' (Cosmetics; styling.), 'demos' (Update generated html documentation.), 'docs' (Prepare for github pages.), 'js' (Fix typos.), 'lib' (Update clip8dependencies.js), and 'plans&sketches' (Questionmark icon for unavailable section icons). The bottom right corner of the page shows the date '13:51'.

GitHub - broesamle/clip\_8: Wh...

https://github.com/broesamle/clip\_8

Why GitHub? Enterprise Explore Marketplace Pricing

Search

broesamle / clip\_8

Code Issues 33 Pull requests 1 Projects 0 Security Insights

Join GitHub today

GitHub is home to over 40 million developers working together to host and review code, manage projects, and build software together.

Sign up

What you see is what you compute.

701 commits 16 branches 0 packages 1 release 1 contribut

Branch: master New pull request

broesamle Minor changes. ✓ Latest

File/Folder	Description
bin	Merge branch 'master' into gh-pages
css	Cosmetics; styling.
demos	Update generated html documentation.
docs	Prepare for github pages.
js	Fix typos.
lib	Update clip8dependencies.js
plans&sketches	Questionmark icon for unavailable section icons

13:51

- a) *Instructions* manipulate the *data elements*, i.e. *cut, align, resize, or move them*.
- b) *Control flow*, defines the order of instructions, alternatives etc.

## Why?

`clip_8` was designed as a visual thought experiment. Please find more on the philosophy behind [visuelle-maschine.de](#) gives some background on the [philosophy](#) behind visual thought experiments.

## Getting Started

[Demos](#), for a first impression.

[Tutorial](#), draw and execute an SVG.

For recent user information please check the [Tutorial and Getting Started Issues](#).

[Klippen](#), try `clip_8` online (no installation required).

## Browser compatibility

- An experimental [Web Assembly](#) module uses [ncollide](#) to retrieve rectangles based on their location.
- Tested in Chrome, Firefox
- Credits go to Andrew Hobden, whose article [The Path to Rust on the Web](#) helped a lot in getting R talk to each other.

To run on a local machine, please use a local http server, e.g.:

```
python -m http.server 8000 --bind 127.0.0.1
```

## Tests / Language documentation

[https://broesamle.github.io/clip\\_8/tutorial/klippen.html](https://broesamle.github.io/clip_8/tutorial/klippen.html)

- a) Instructions manipulate the *data* elements, i.e. *cut, align, resize, or move them.*
- b) Control flow, defines the order of instructions, alternatives etc.

## Why?

clip\_8 was designed as a visual thought experiment. Please find more on the philosophy behind visuelle-maschine.de gives some background on the [philosophy behind visual thought experiments](#).

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## Browser compatibility

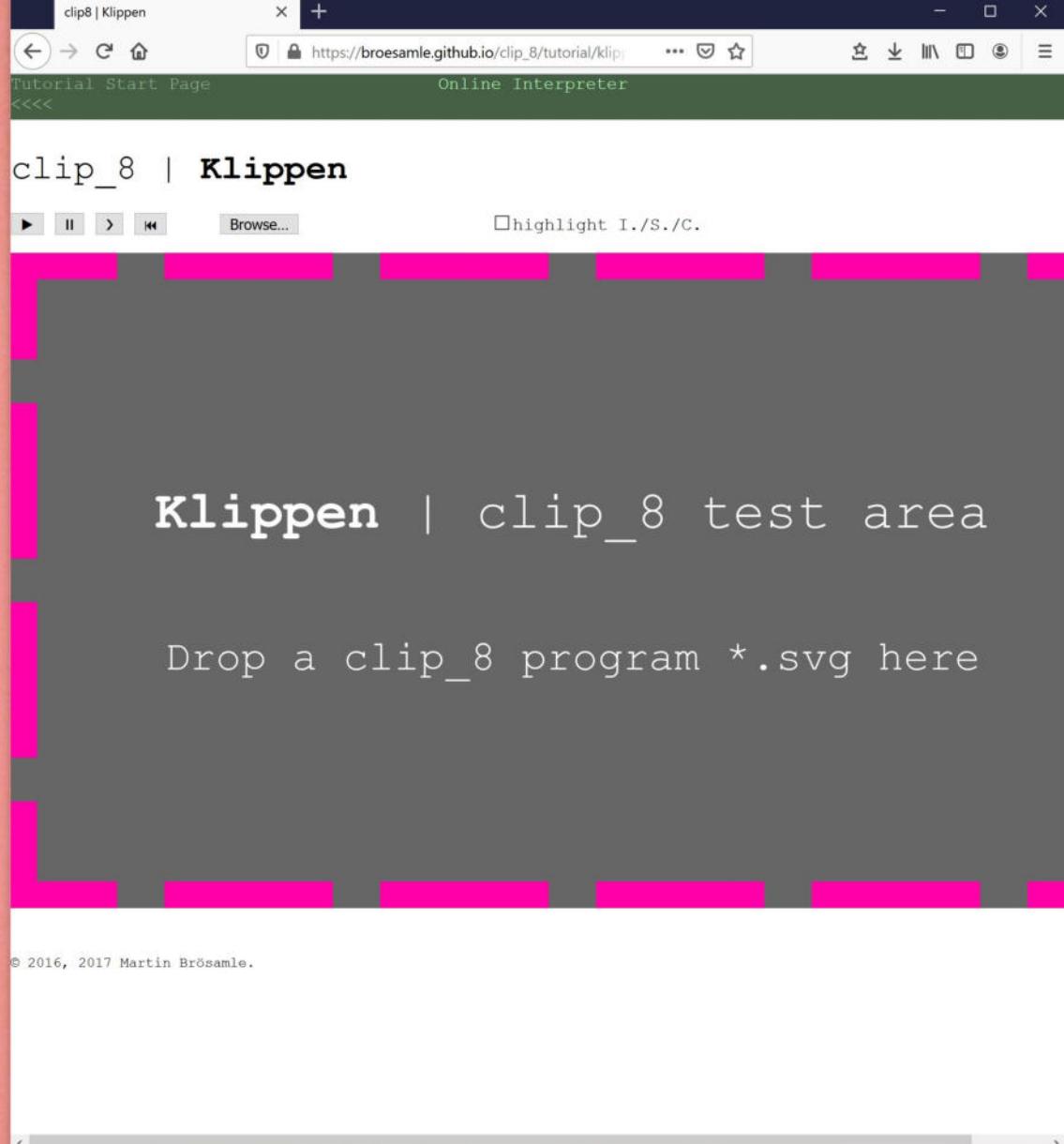
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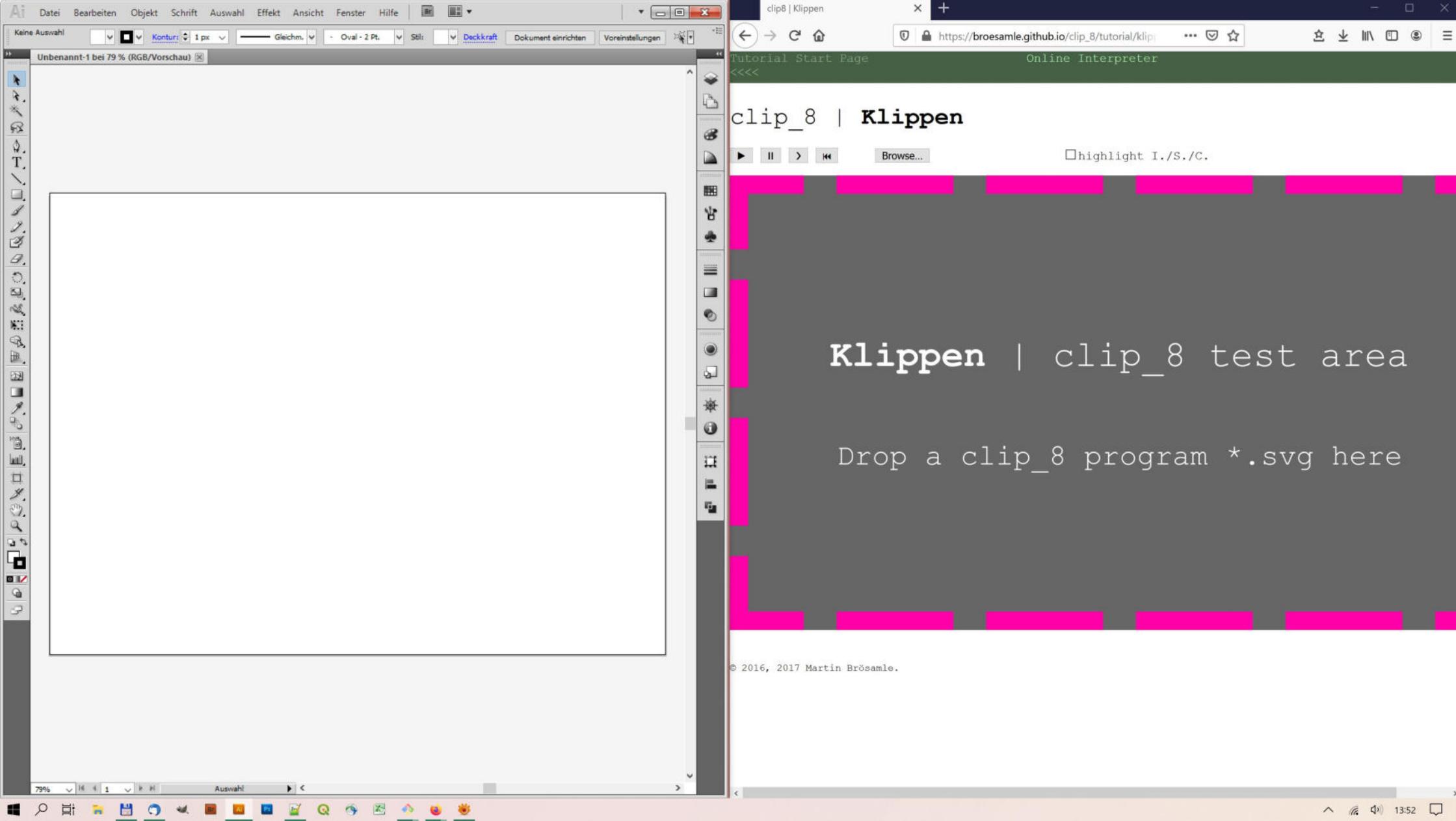
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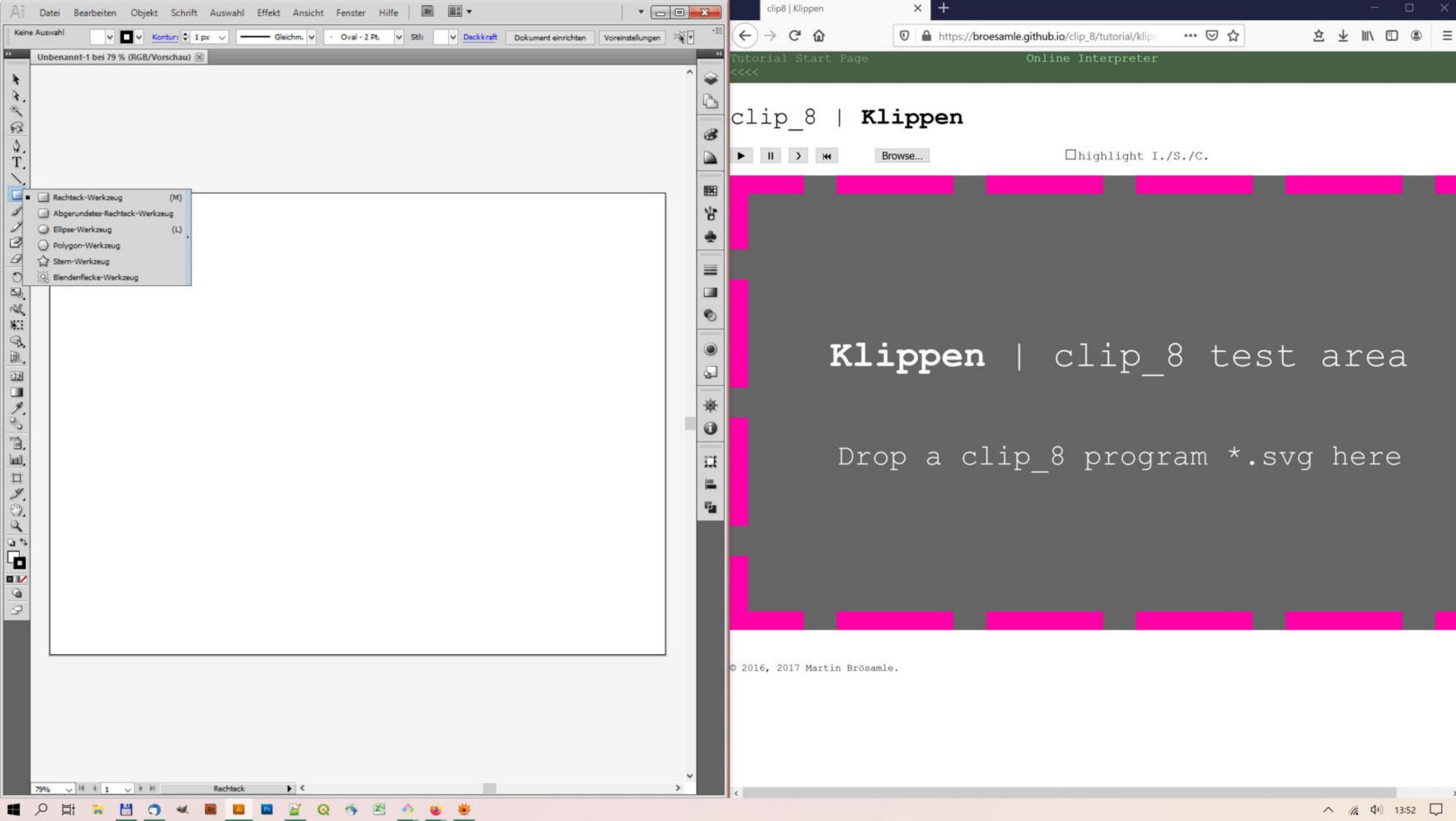
```
python -m http.server 8000 --bind 127.0.0.1
```

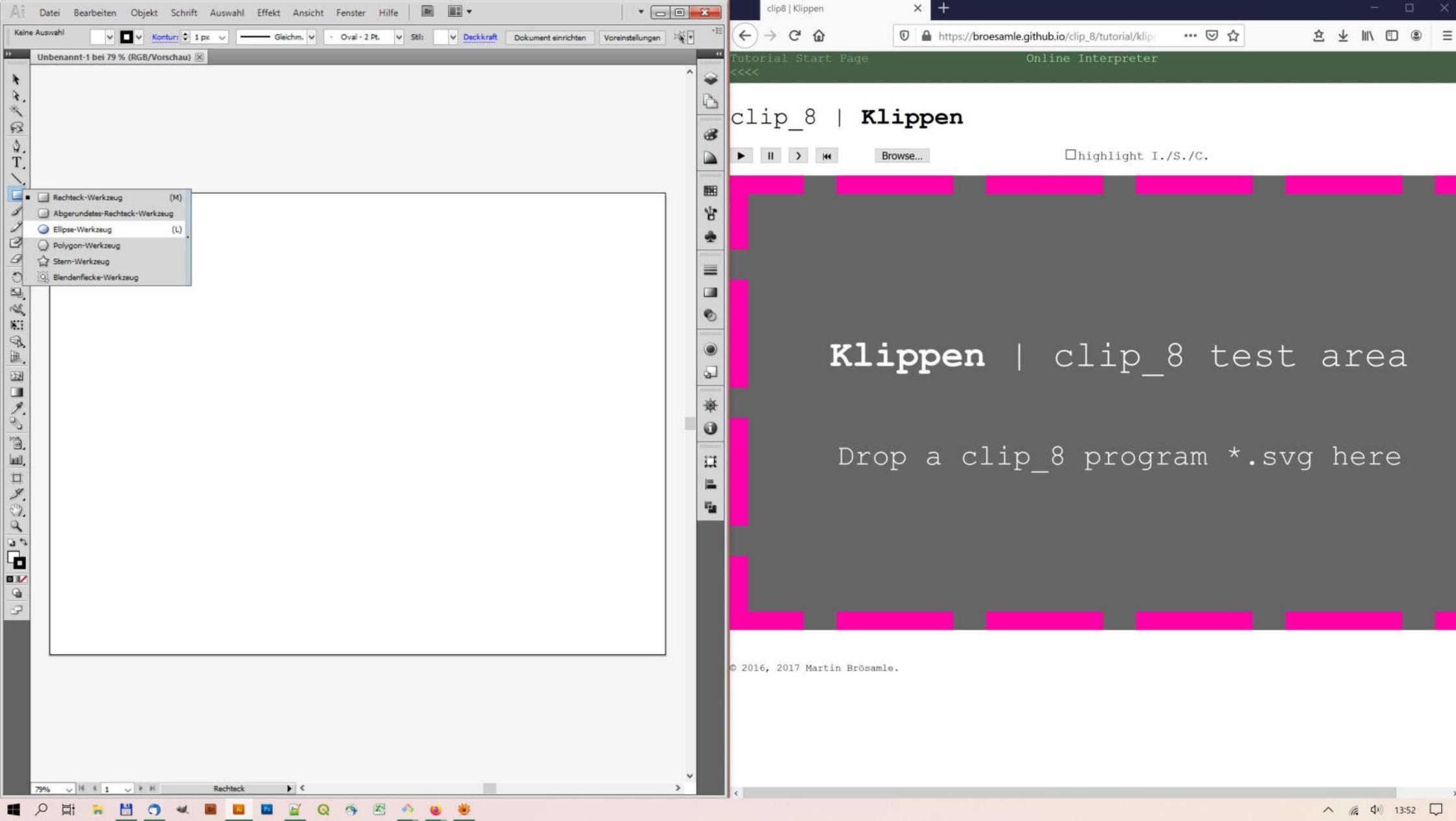
## Tests / Language documentation

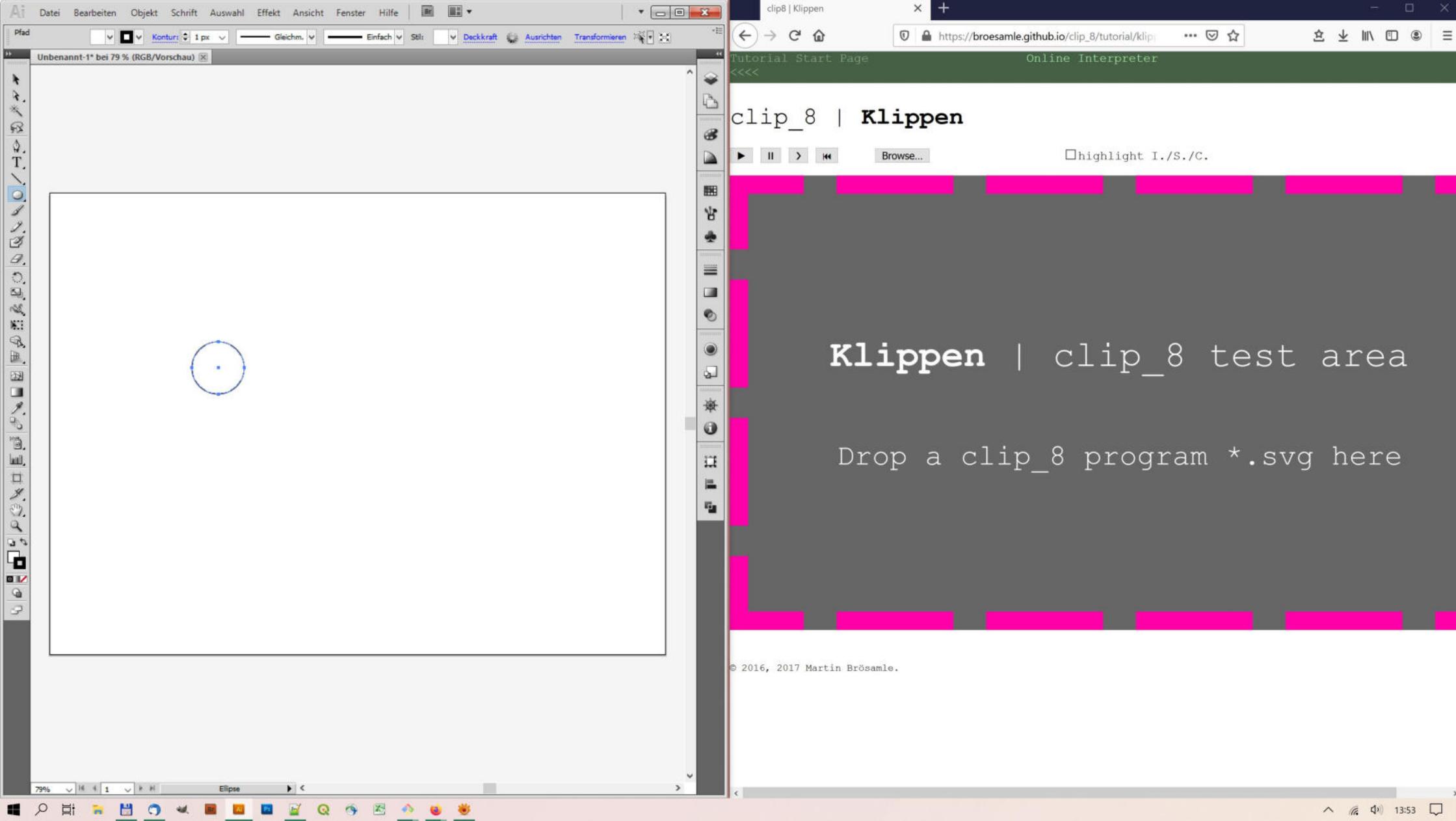
[https://broesamle.github.io/clip\\_8/tutorial/klippen.html](https://broesamle.github.io/clip_8/tutorial/klippen.html)

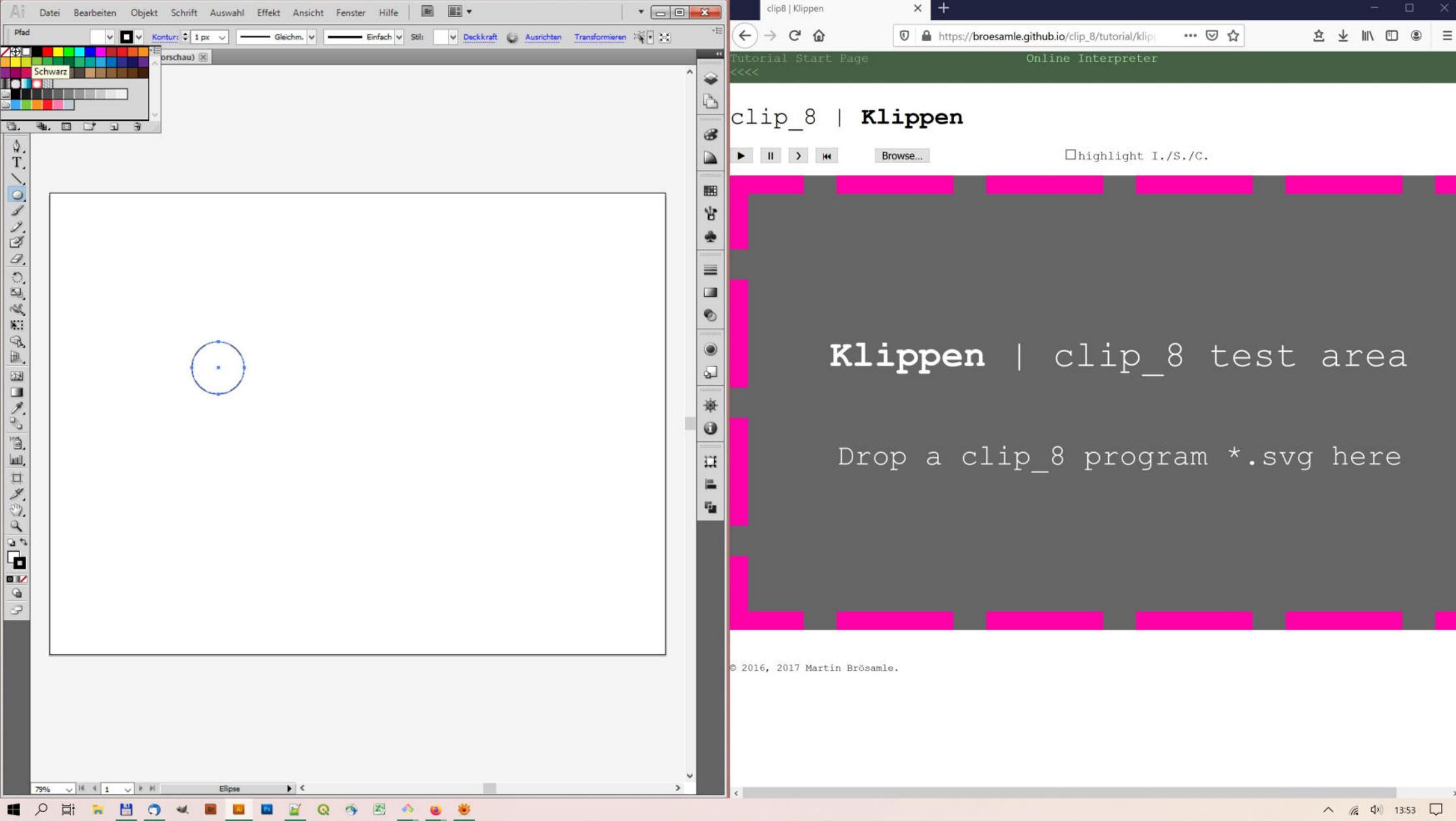


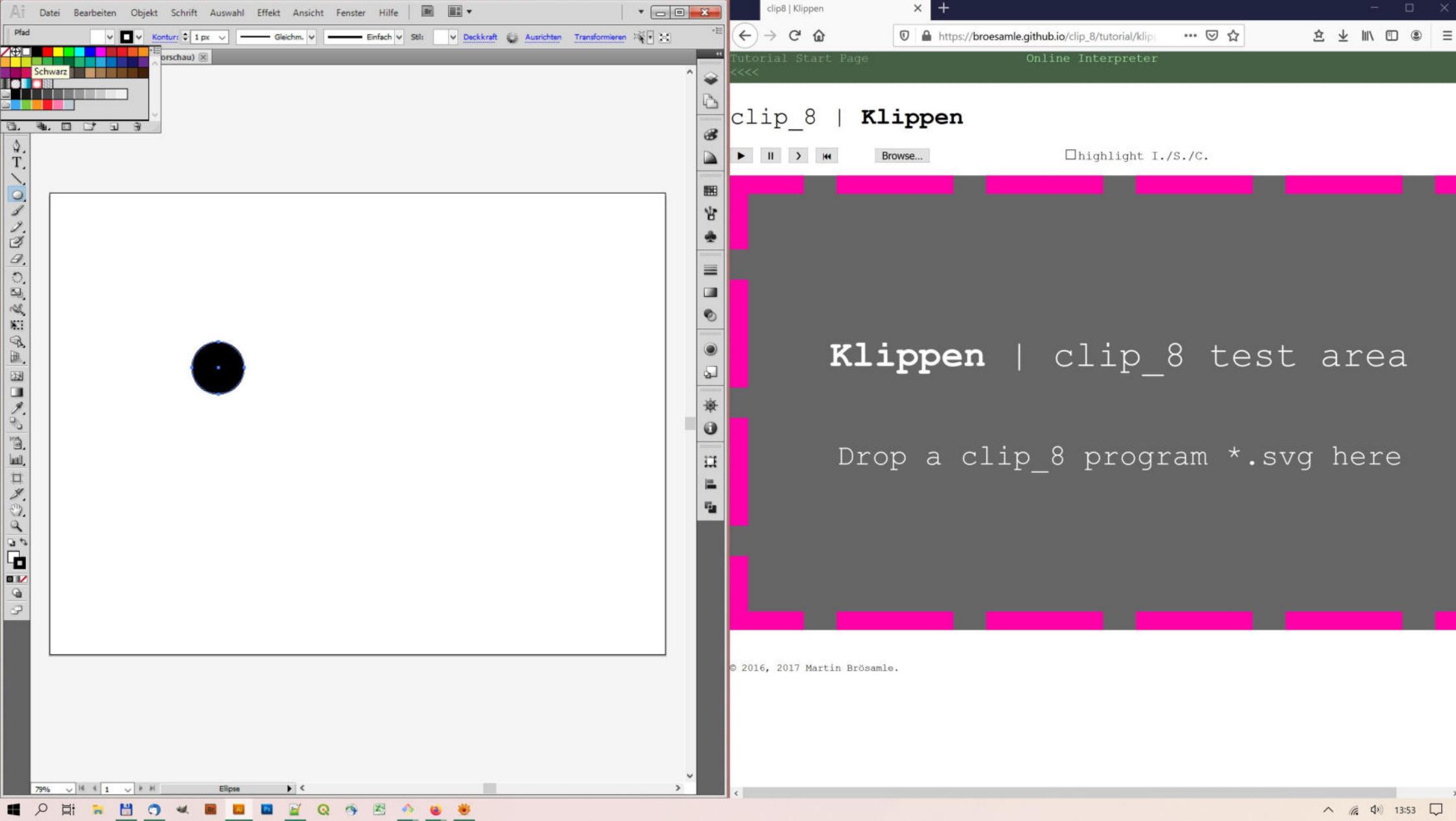


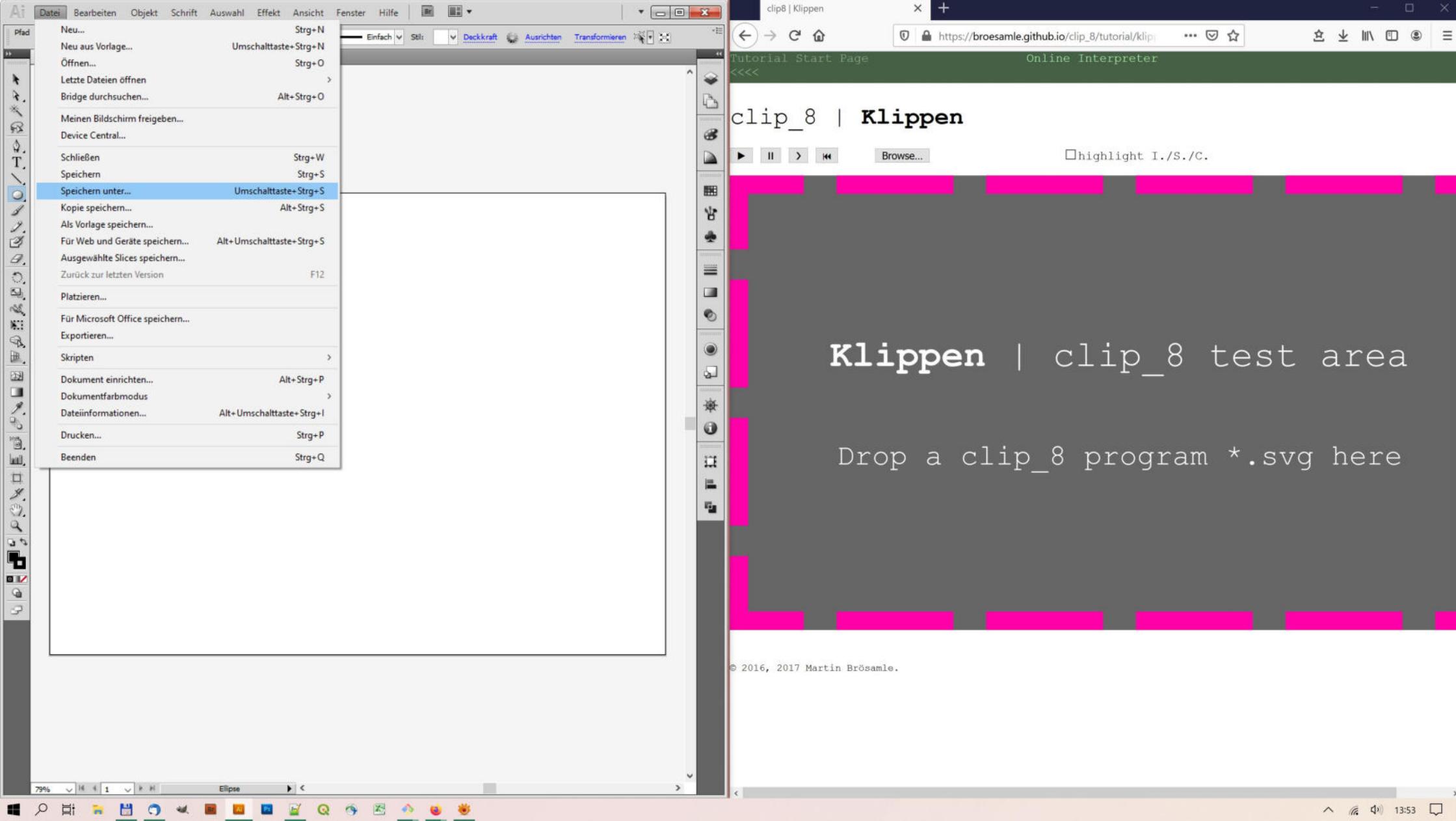


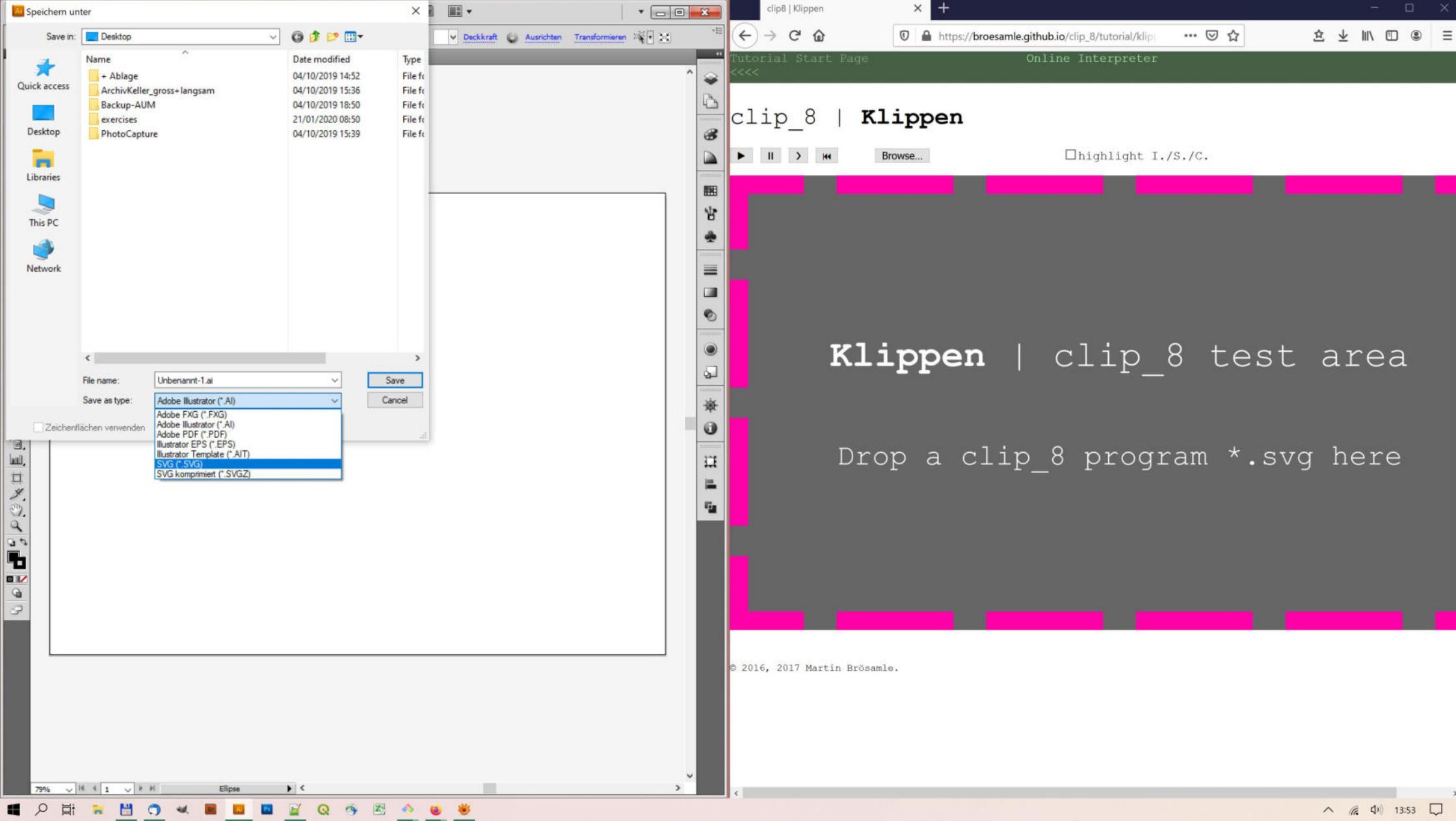












Ai Datei Bearbeiten Objekt Schrift Auswahl Effekt Ansicht Fenster Hilfe

Pfad Kontur: 1 px Gleichm. Einfach Deckkraft Ausrichten Transformieren

Unbenannt-1\* bei 79% (RGB/Vorschau)

SVG-Optionen

SVG-Profil: SVG Tiny 1.1 OK

Schrifarten

Text: SVG Abbrechen

Subsetting: Ohne (Systemsschriften verwenden) Mehr Optionen

Bilder

Pfad:  Einbetten  Verknüpfen

Illustrator-Bearbeitungsfunktionen beibehalten

Beschreibung

Halten Sie den Cursor über eine Einstellung, um zusätzliche Informationen zu erhalten.

SVG-Code anzeigen... Webvorschau... Device Central...

clip8 | Klippen Tutorial Start Page Online Interpreter

clip\_8 | klippen

highlight I./S./C.

Klippen | clip\_8 test area

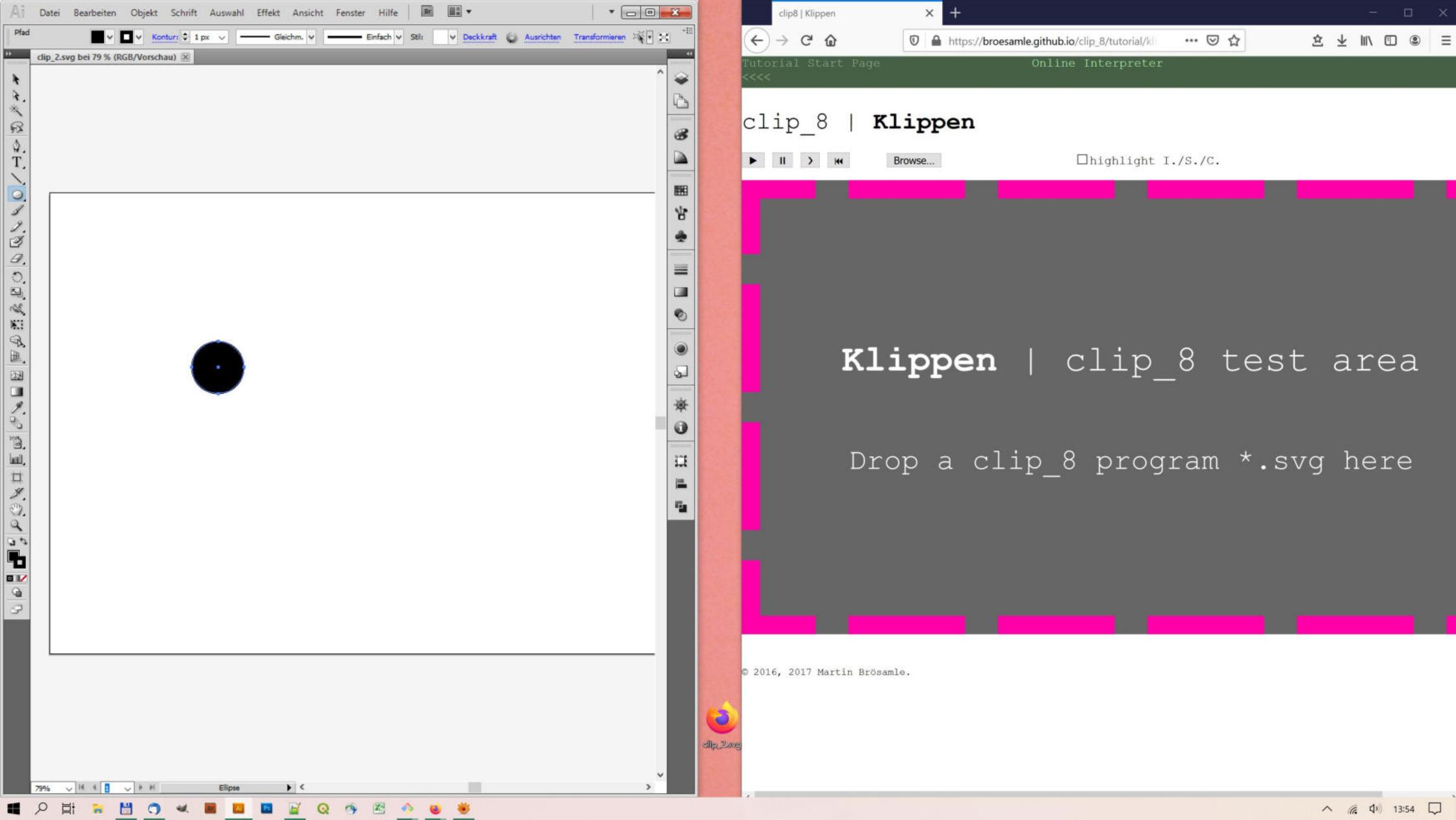
Drop a clip\_8 program \*.svg here

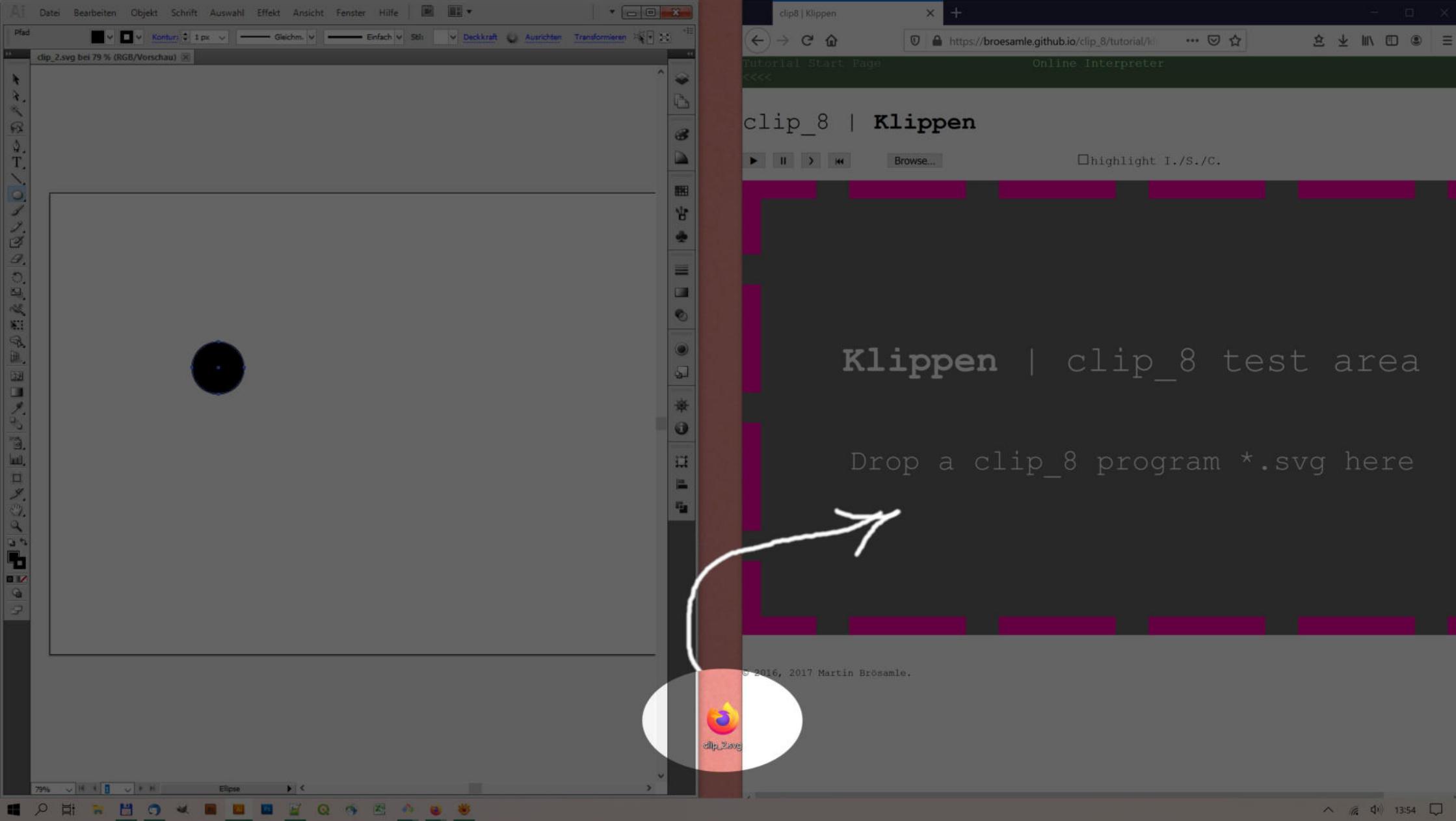
© 2016, 2017 Martin Brösamle.

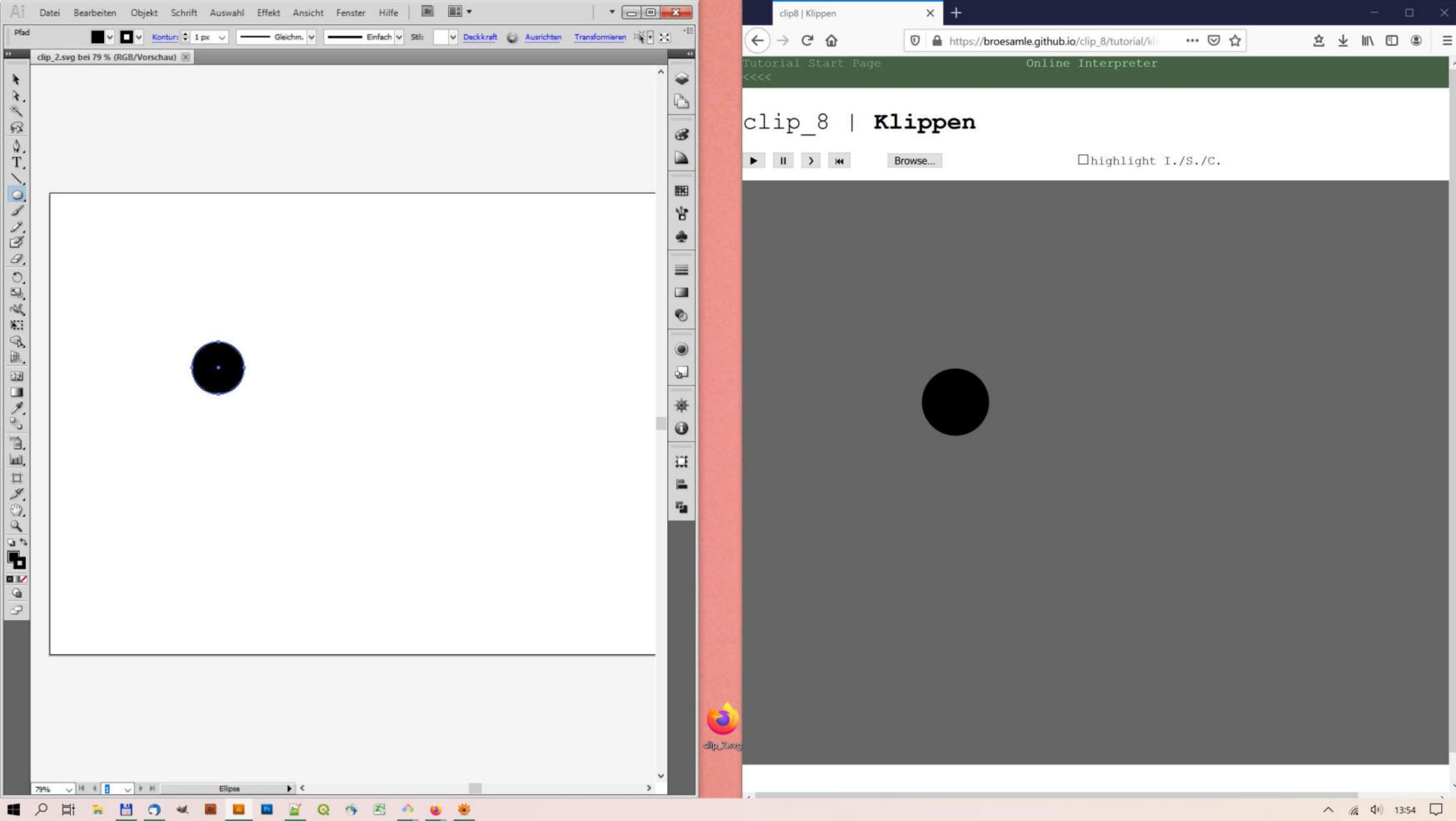
79% Ellipse

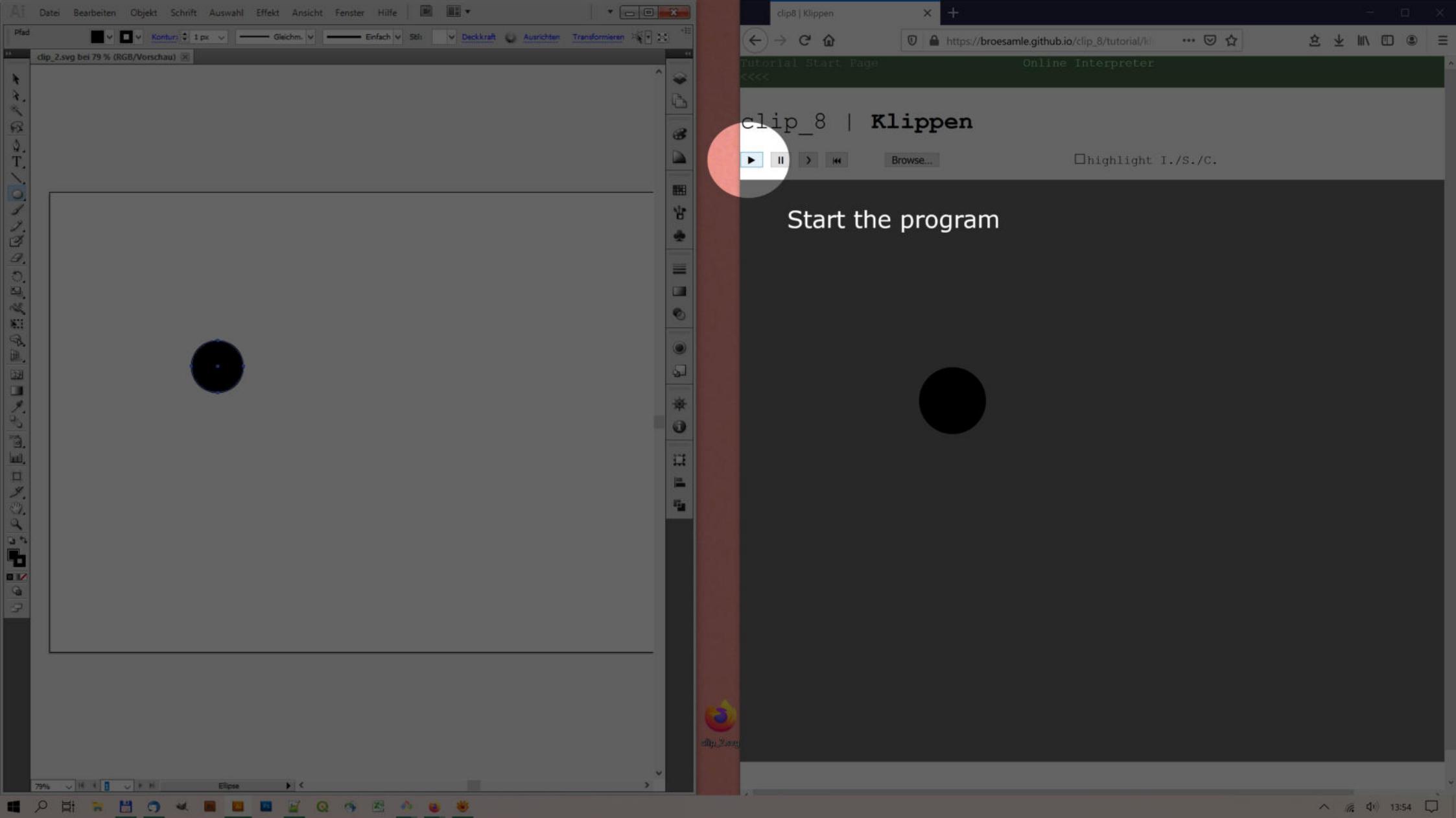
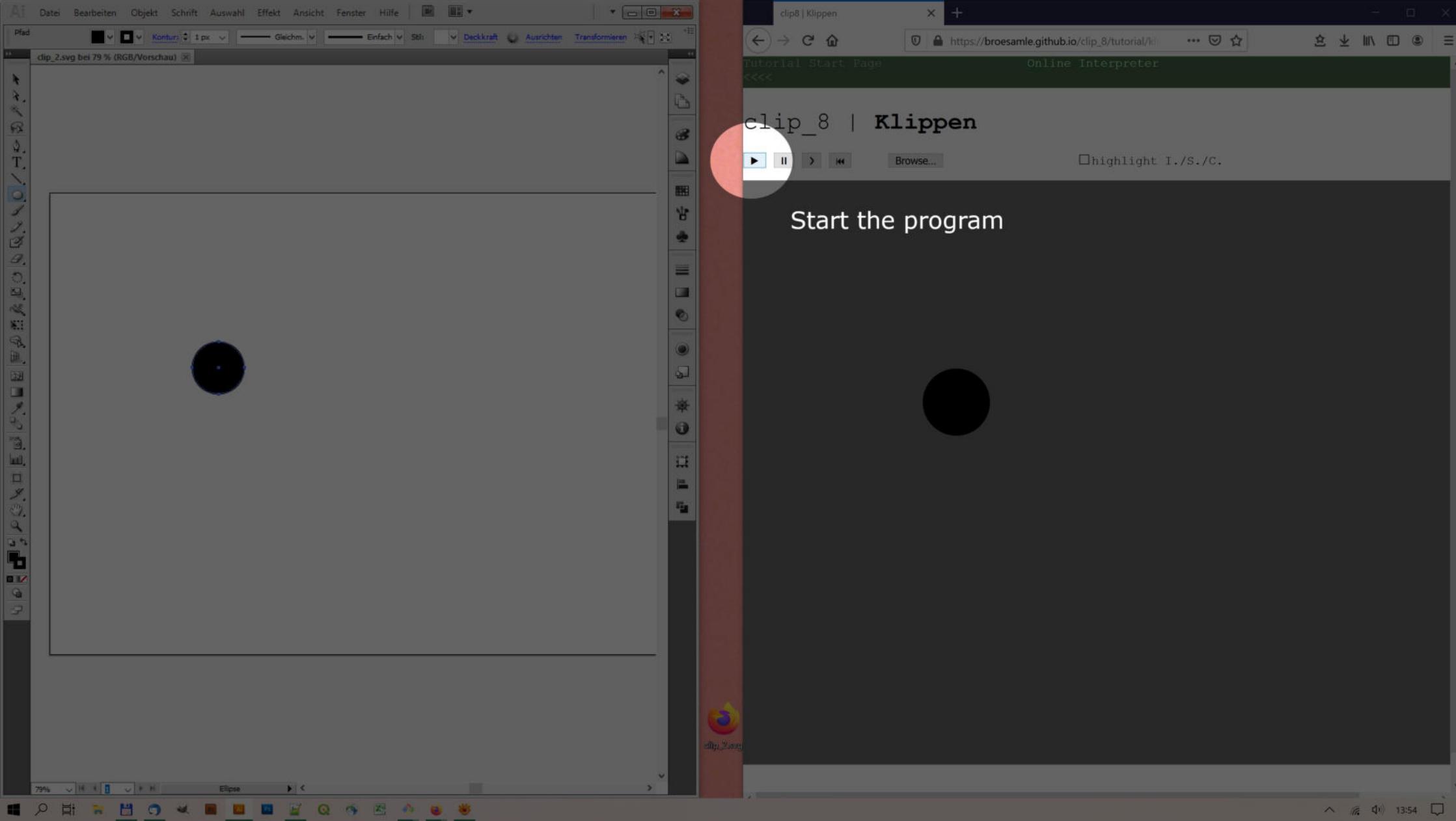
13:53

This screenshot shows a dual-monitor setup. The left monitor displays Adobe Illustrator (version CS6) with a document titled 'Unbenannt-1\*' at 79% zoom. A context menu is open over a white rectangular selection, showing options like 'Pfad', 'Kontur: 1 px', 'Gleichm.', 'Einfach', 'Deckkraft', 'Ausrichten', and 'Transformieren'. A 'SVG-Optionen' dialog box is overlaid on the main workspace, containing settings for an 'SVG Tiny 1.1' profile, font choice ('SVG'), and embedding options. The right monitor displays the 'Klippen' online interpreter at the URL [https://broesamle.github.io/clip\\_8/tutorial/klip/](https://broesamle.github.io/clip_8/tutorial/klip/). The interface includes a toolbar with icons for file operations, a media player-like control bar with buttons for play/pause, forward/backward, and a 'Browse...' button, and a status bar indicating 'highlight I./S./C.'. The main area features a large dark gray 'test area' with a thick magenta border, and a central text area with the title 'Klippen | clip\_8 test area' and a placeholder 'Drop a clip\_8 program \*.svg here'. At the bottom of the interpreter window, a copyright notice reads '© 2016, 2017 Martin Brösamle.'









Ai Datei Bearbeiten Objekt Schrift Auswahl Effekt Ansicht Fenster Hilfe Pfad Kontur: 1 px Gleichm. Einfach Deckkraft Ausrichten Transformieren clip\_2.svg bei 79 % (RGB/Vorschau)

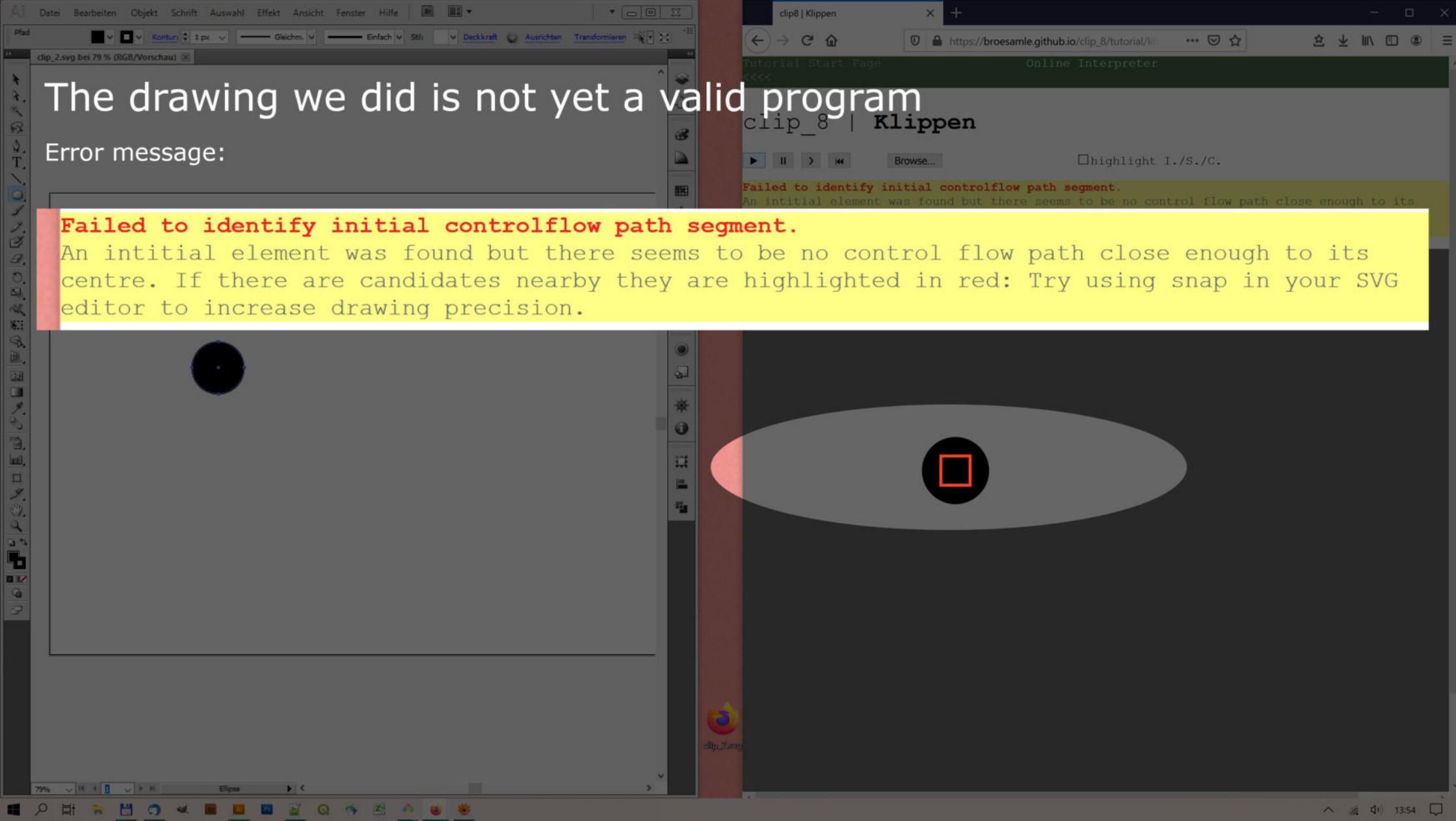
clip8 | Klippen Tutorial Start Page Online Interpreter <<<

clip\_8 | Klippen

Browse...  highlight I./S./C.

Failed to identify initial controlflow path segment.  
An intitial element was found but there seems to be no control flow path close enough to its centre. If there are candidates nearby they are highlighted in red: Try using snap in your SVG editor to increase drawing precision.

clip\_2.svg

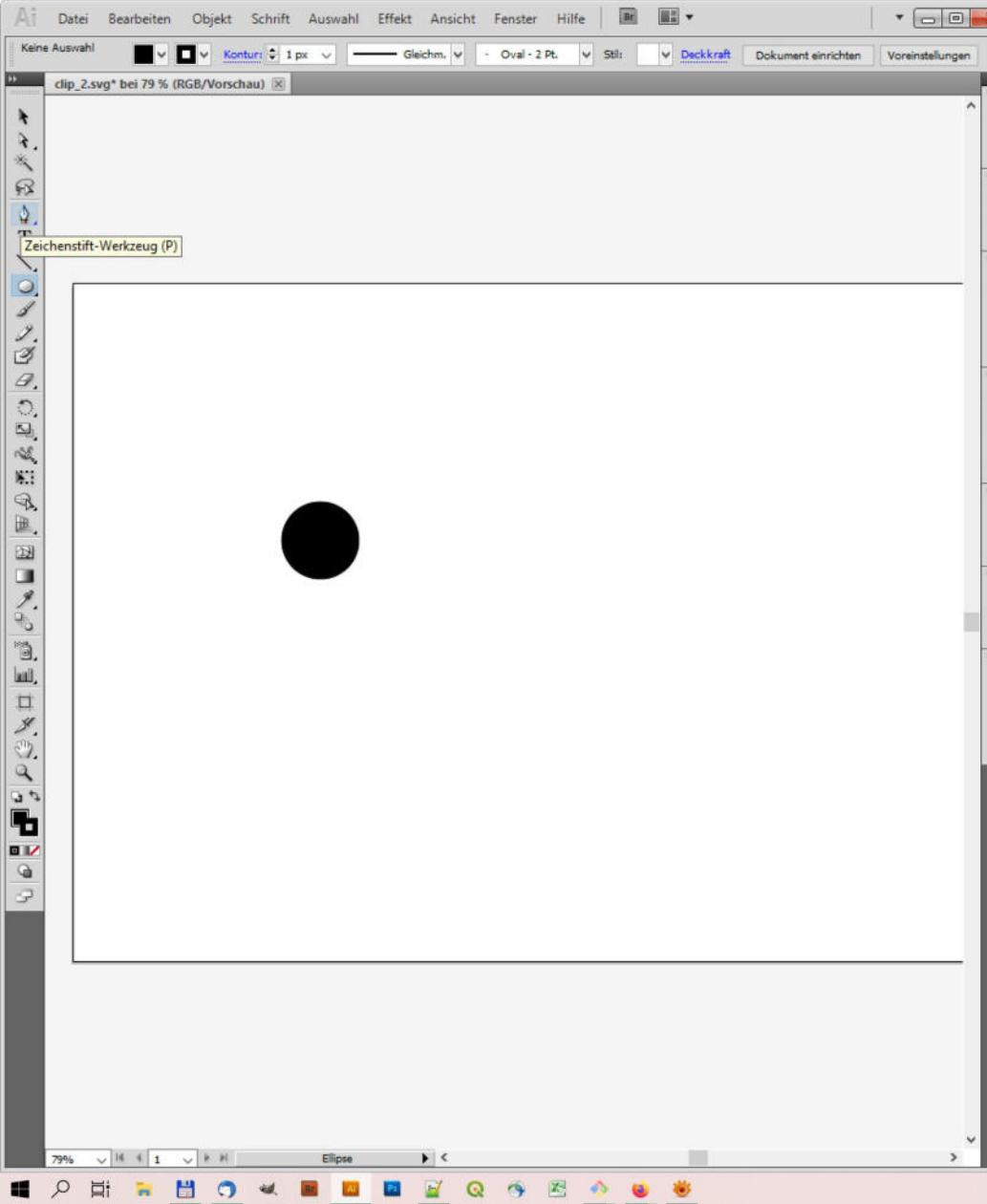


# The drawing we did is not yet a valid program

Error message:

**Failed to identify initial controlflow path segment.**

An intitial element was found but there seems to be no control flow path close enough to its centre. If there are candidates nearby they are highlighted in red: Try using snap in your SVG editor to increase drawing precision.



clip8 | Klippen

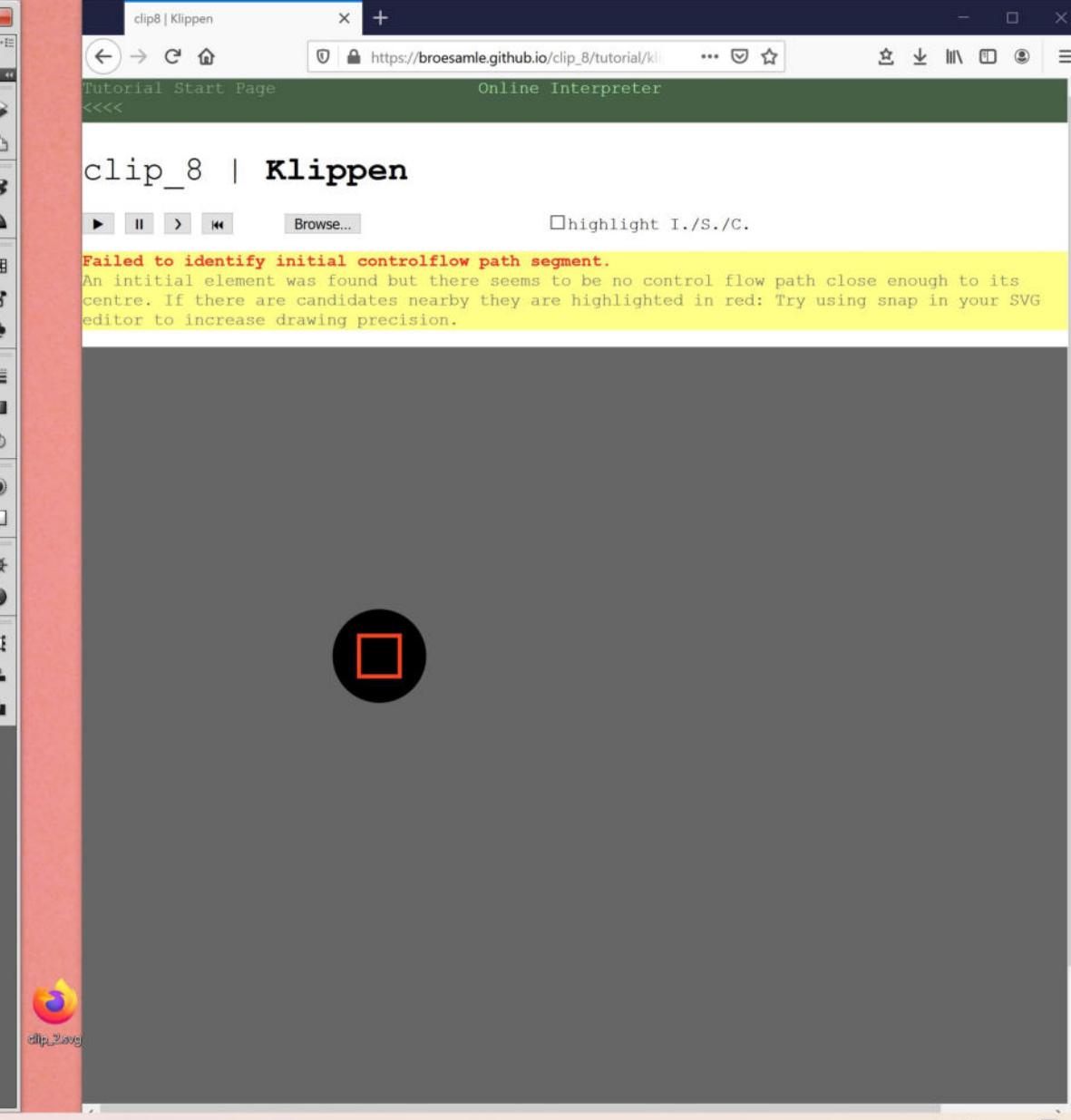
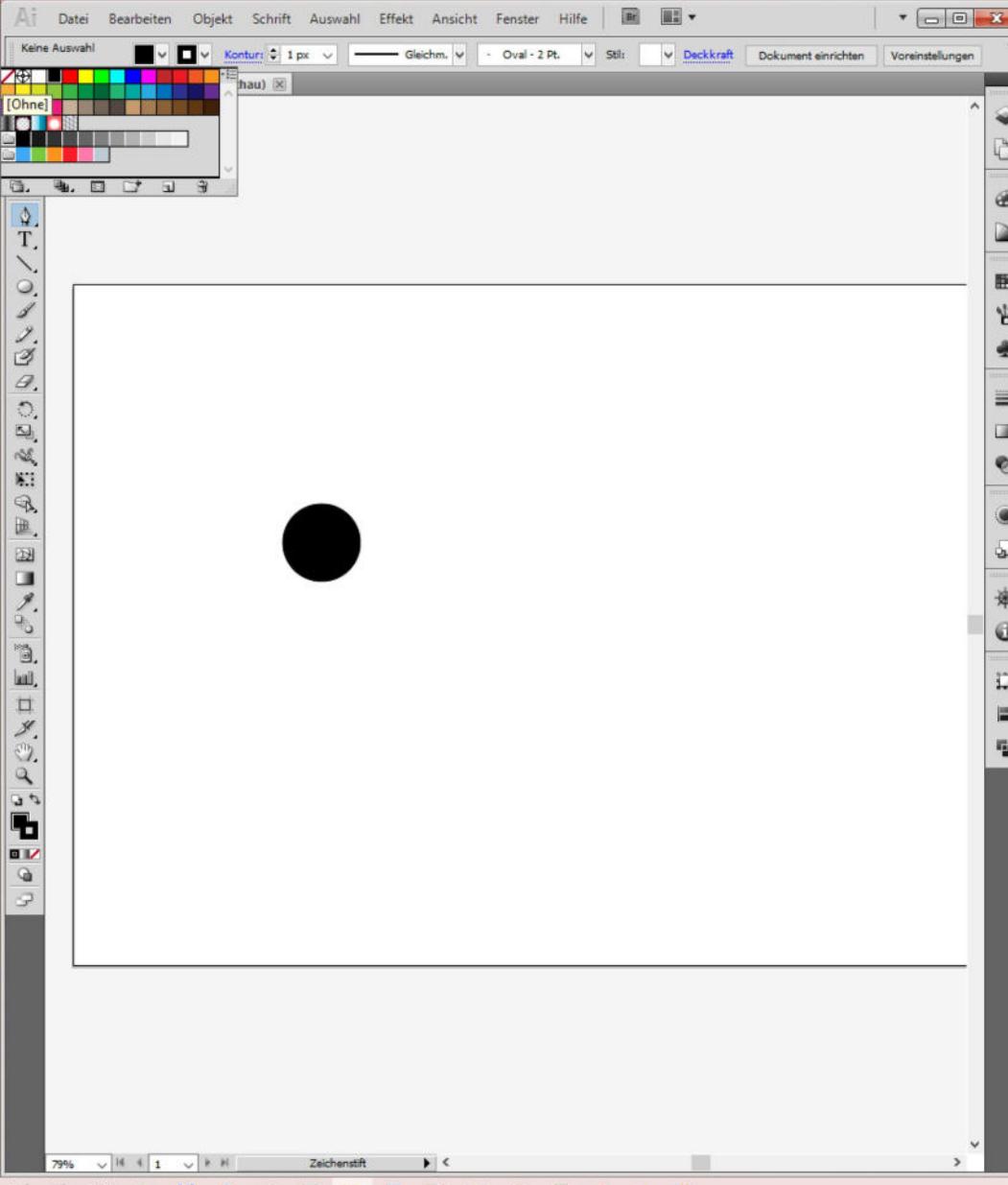
Tutorial Start Page Online Interpreter <<<

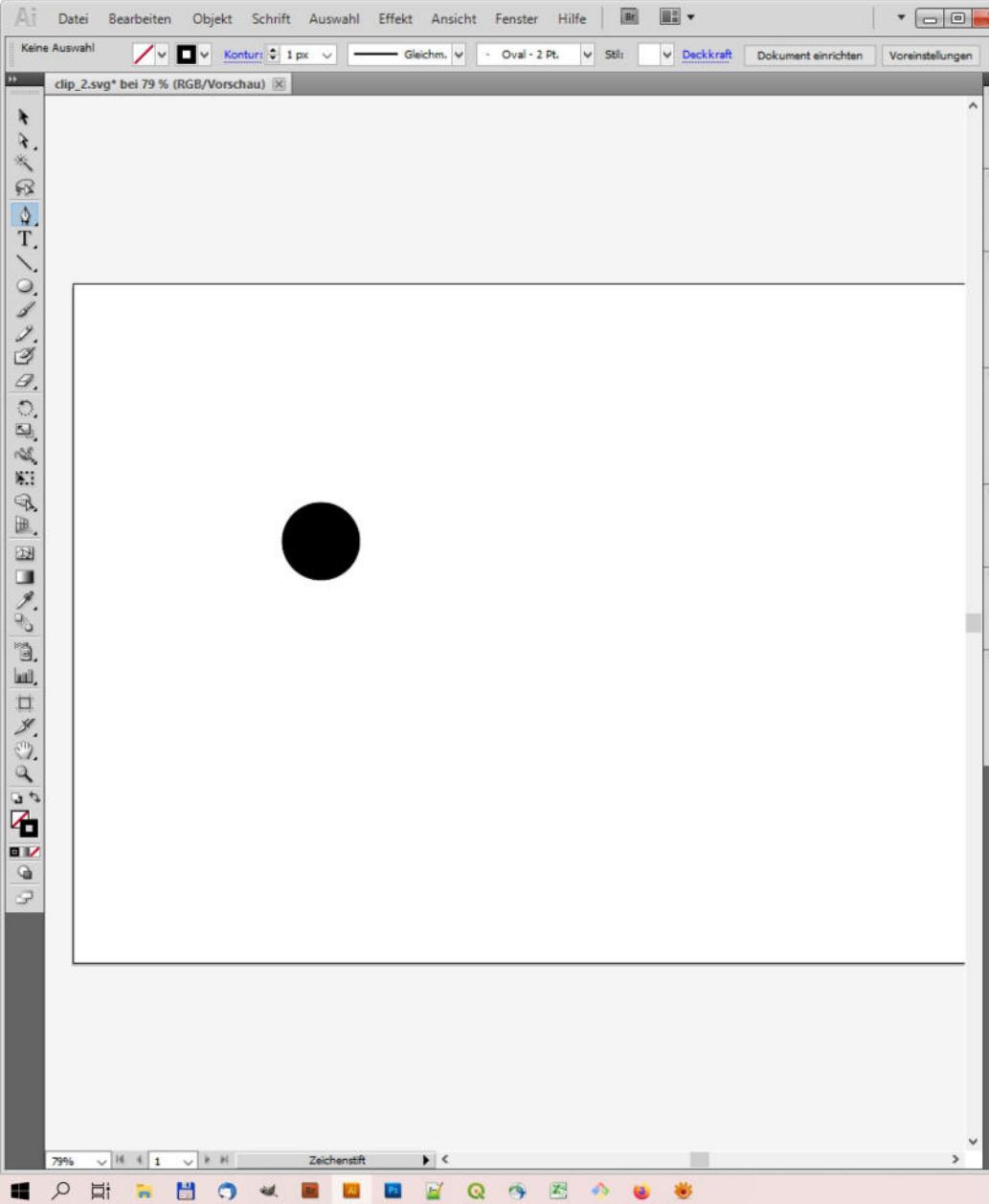
clip\_8 | Klippen

Browse...  highlight I./S./C.

Failed to identify initial controlflow path segment.  
An intitial element was found but there seems to be no control flow path close enough to its centre. If there are candidates nearby they are highlighted in red: Try using snap in your SVG editor to increase drawing precision.

The screenshot shows a web browser window displaying an SVG file. The SVG contains a black circle with a red square inside it. An error message is displayed: "Failed to identify initial controlflow path segment. An intitial element was found but there seems to be no control flow path close enough to its centre. If there are candidates nearby they are highlighted in red: Try using snap in your SVG editor to increase drawing precision." The browser's address bar shows the URL: [https://broesamle.github.io/clip\\_8/tutorial/klippen](https://broesamle.github.io/clip_8/tutorial/klippen).





clip8 | Klippen

Tutorial Start Page

Online Interpreter

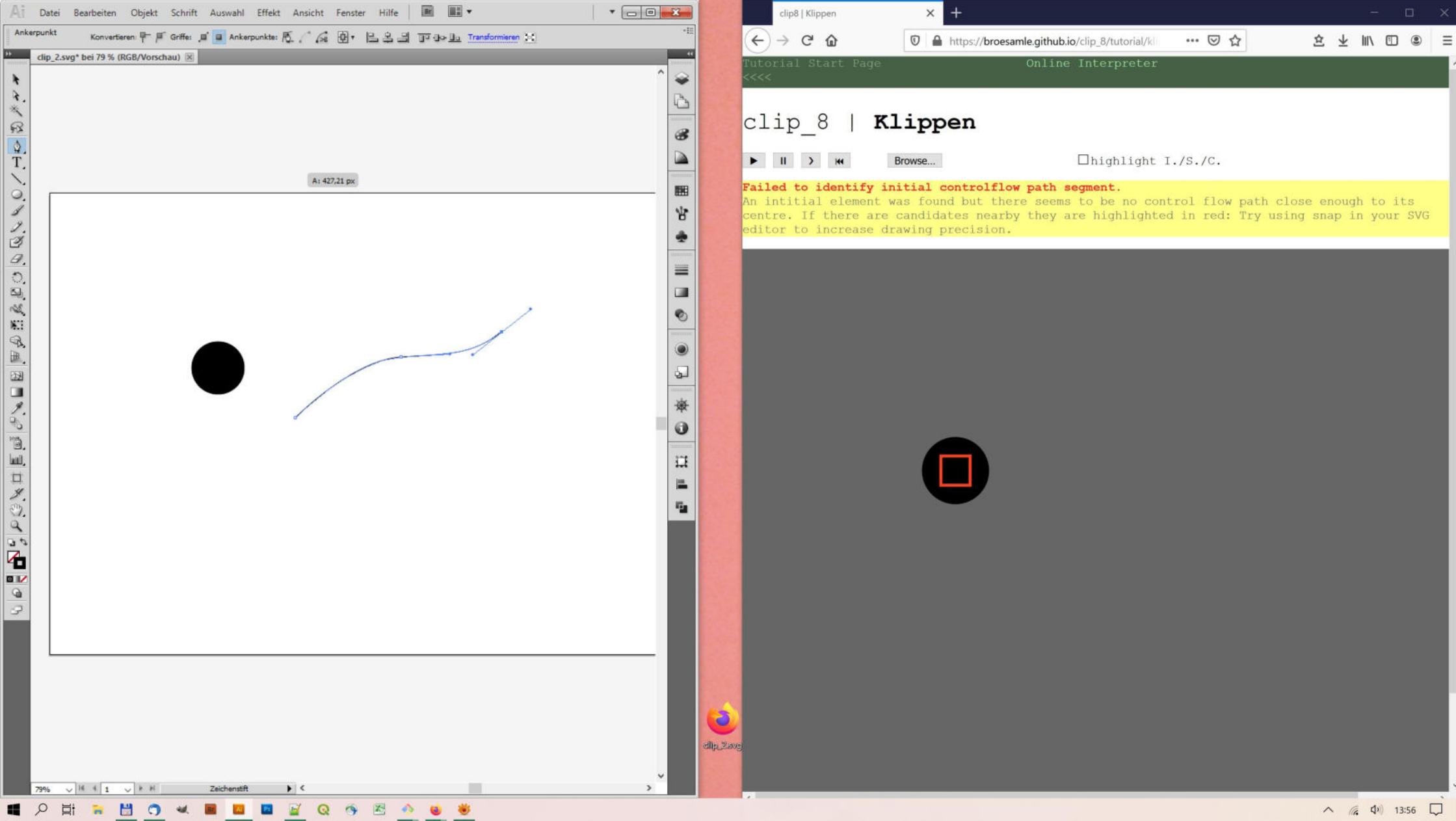
clip\_8 | Klippen

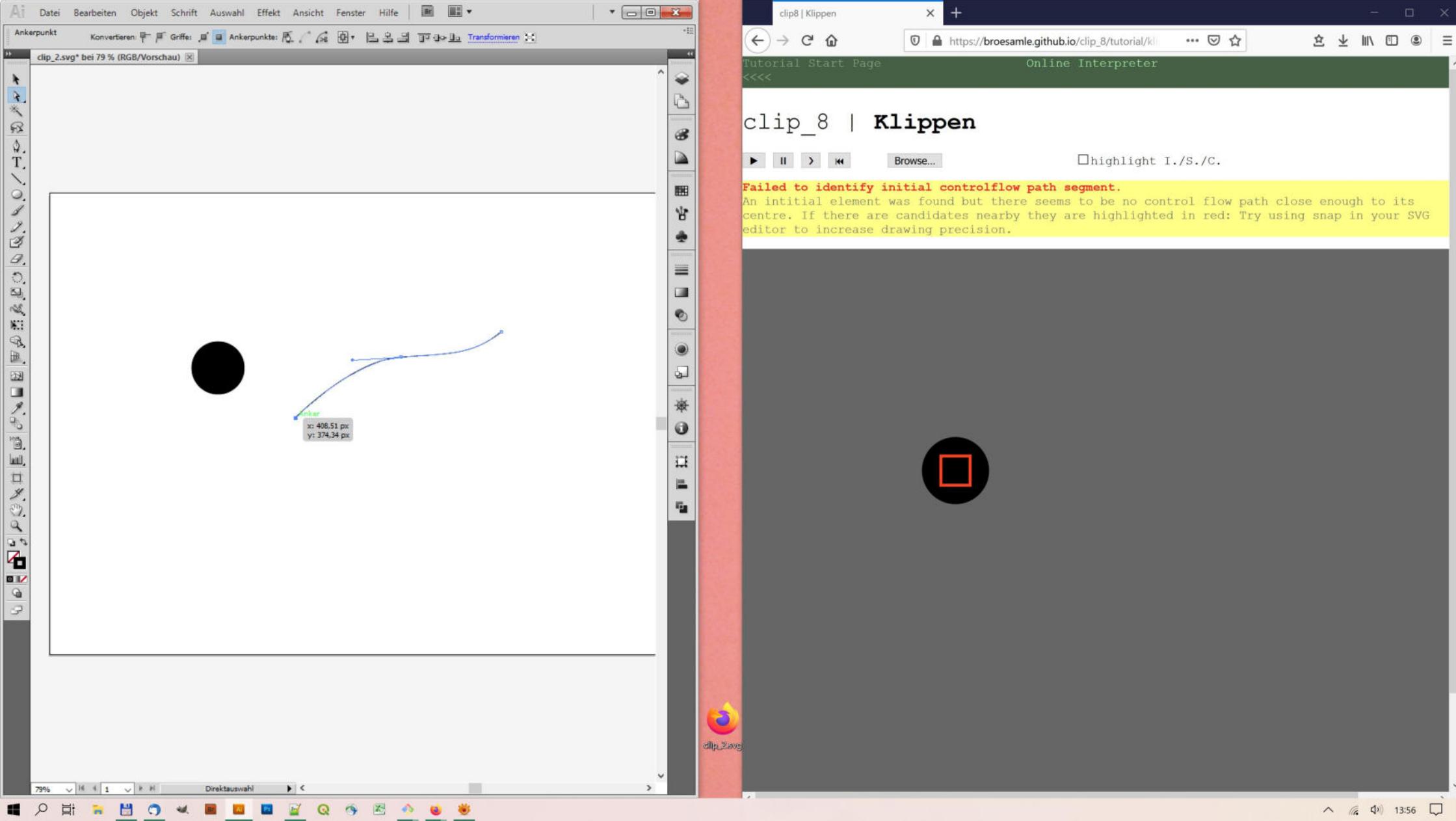
highlight I./S./C.

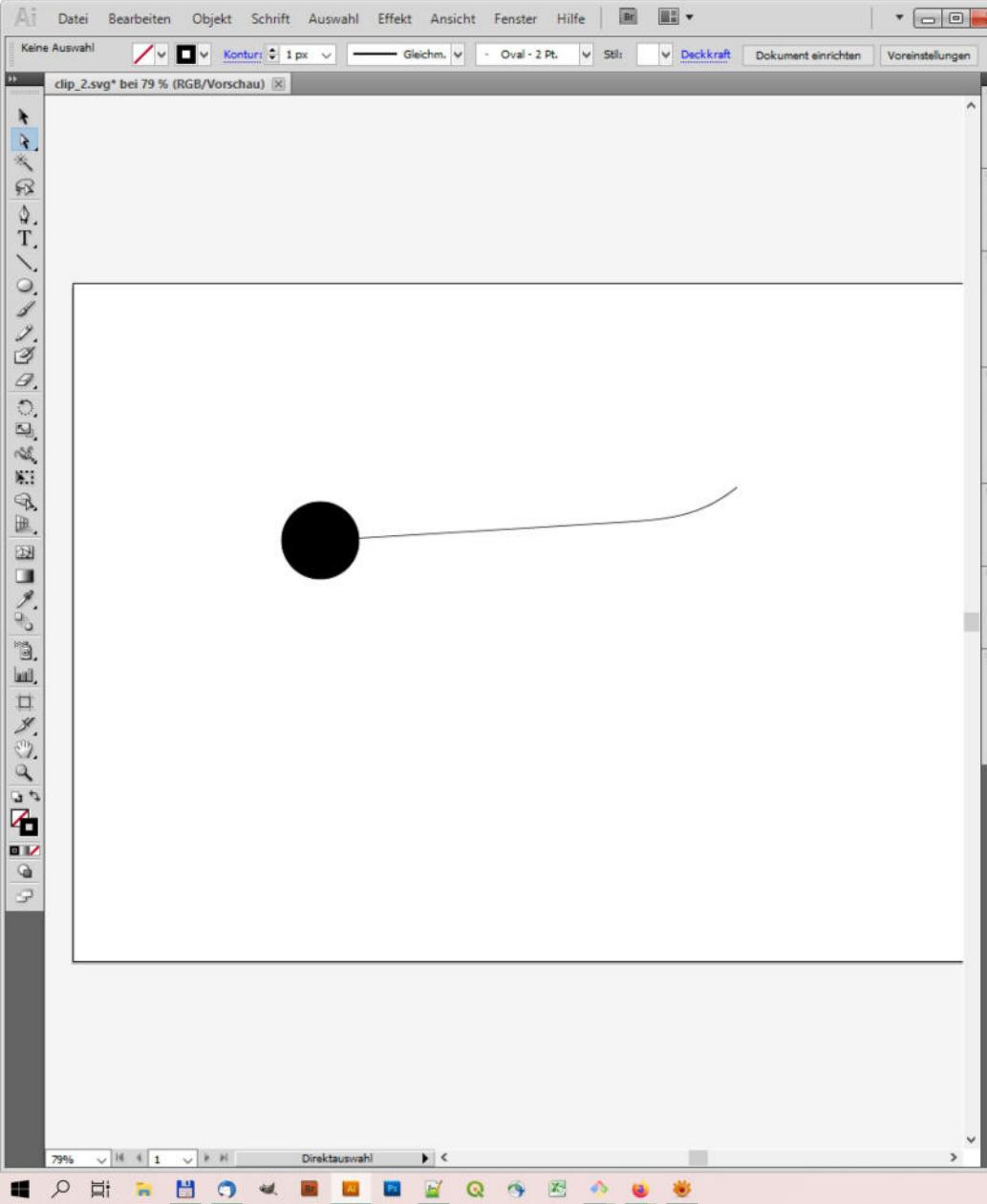
Failed to identify initial controlflow path segment.  
An intitial element was found but there seems to be no control flow path close enough to its centre. If there are candidates nearby they are highlighted in red: Try using snap in your SVG editor to increase drawing precision.

clip\_8.svg

A screenshot of a web browser window titled "clip8 | Klippen". The address bar shows the URL "https://broesamle.github.io/clip\_8/tutorial/klippen". The page content includes a title "clip\_8 | Klippen", a "Browse..." button, and a checkbox for "highlight I./S./C.". A prominent yellow warning box displays the error message: "Failed to identify initial controlflow path segment. An intitial element was found but there seems to be no control flow path close enough to its centre. If there are candidates nearby they are highlighted in red: Try using snap in your SVG editor to increase drawing precision." Below the browser window, the taskbar shows the Firefox logo and the file name "clip\_8.svg".







clip8 | Klippen

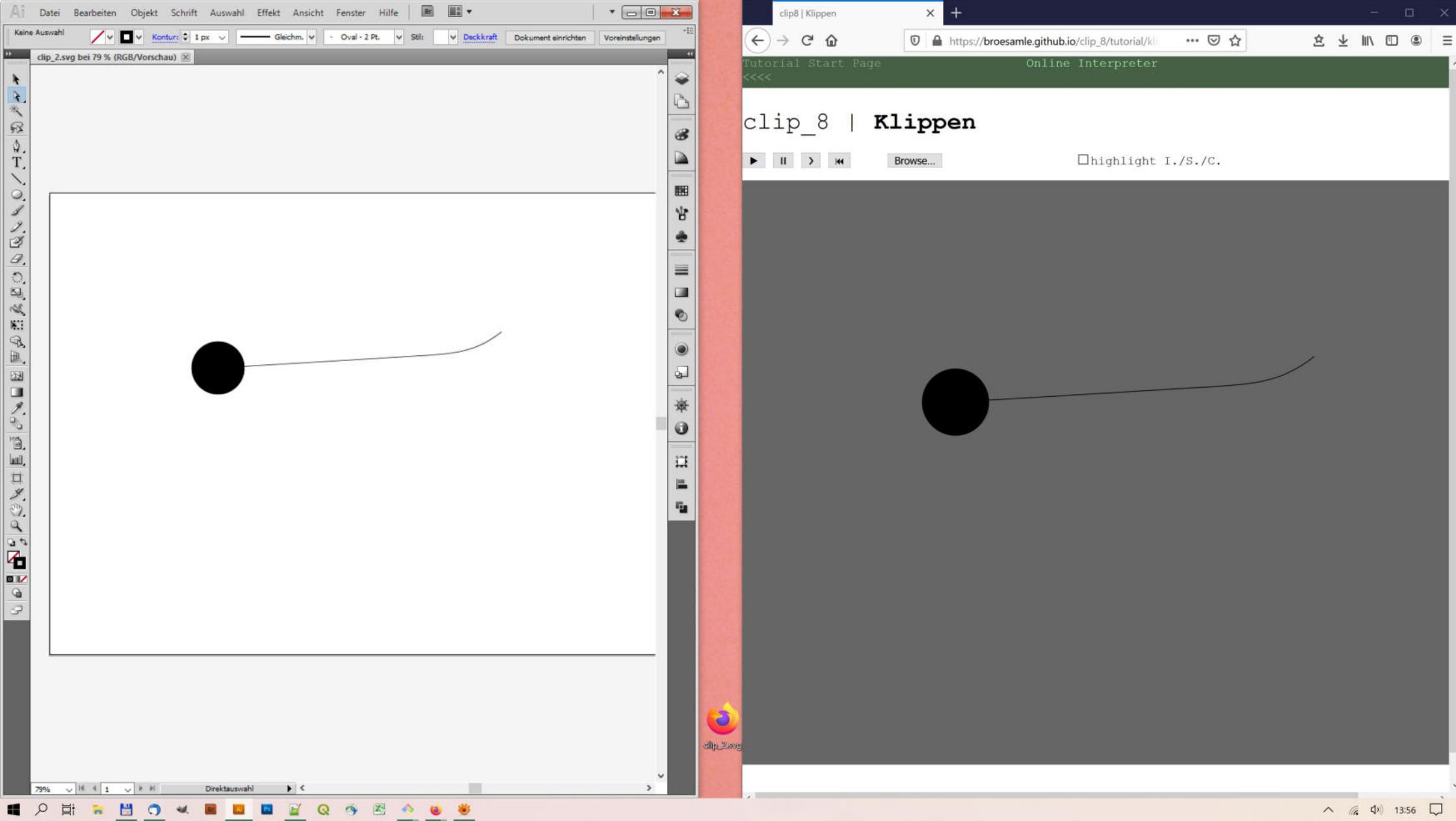
Tutorial Start Page Online Interpreter <<<

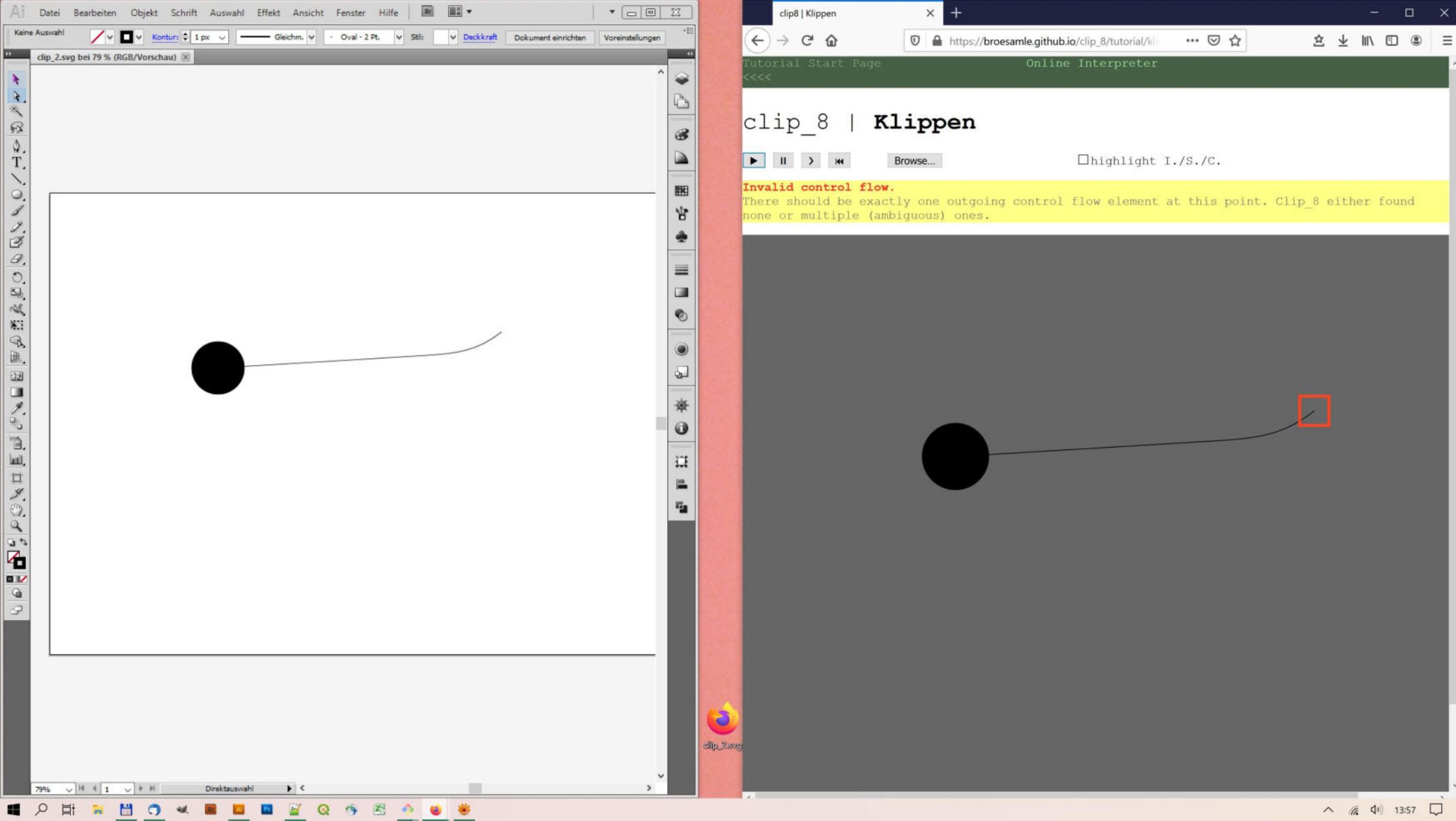
clip\_8 | Klippen

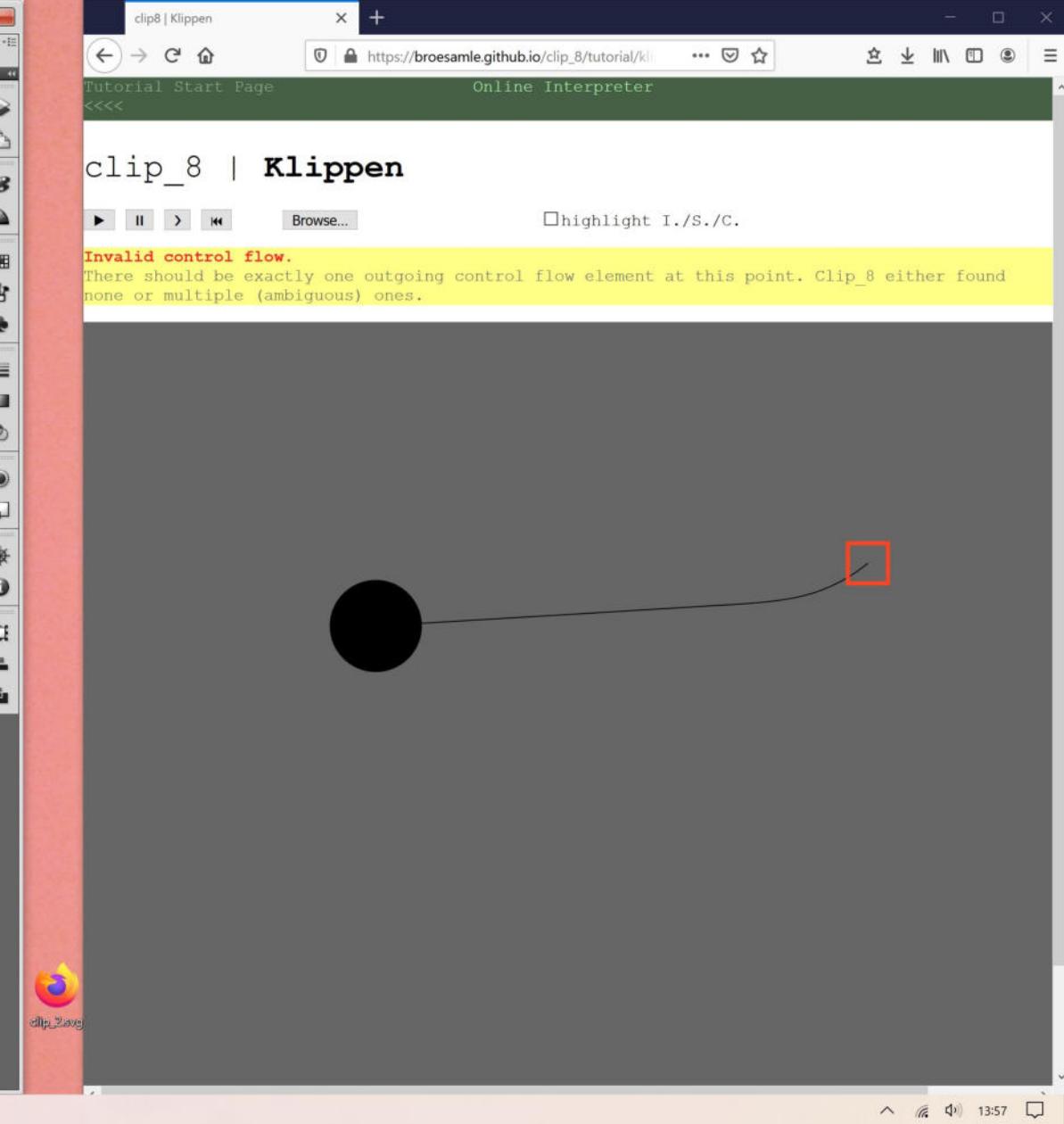
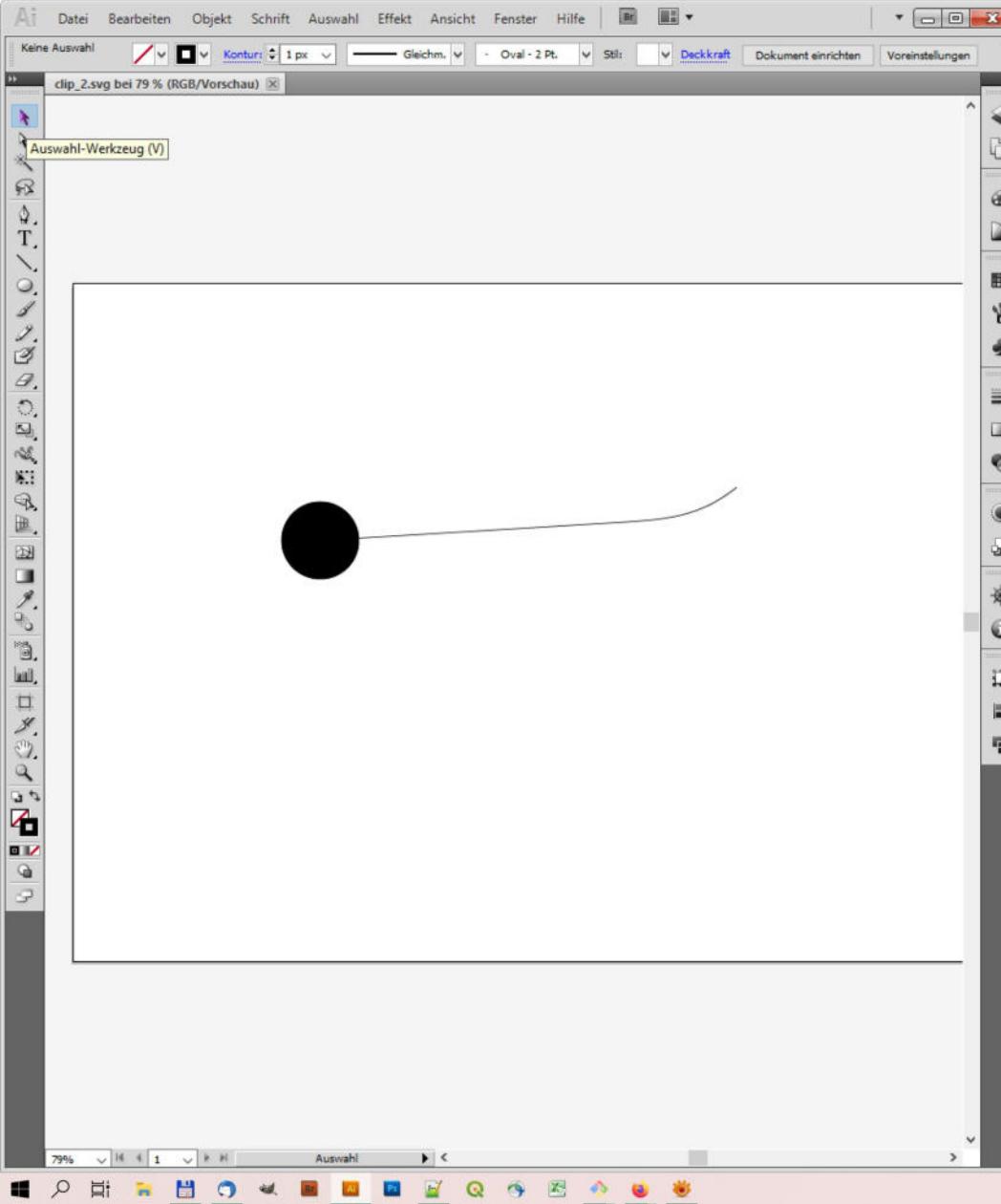
Browse...  highlight I./S./C.

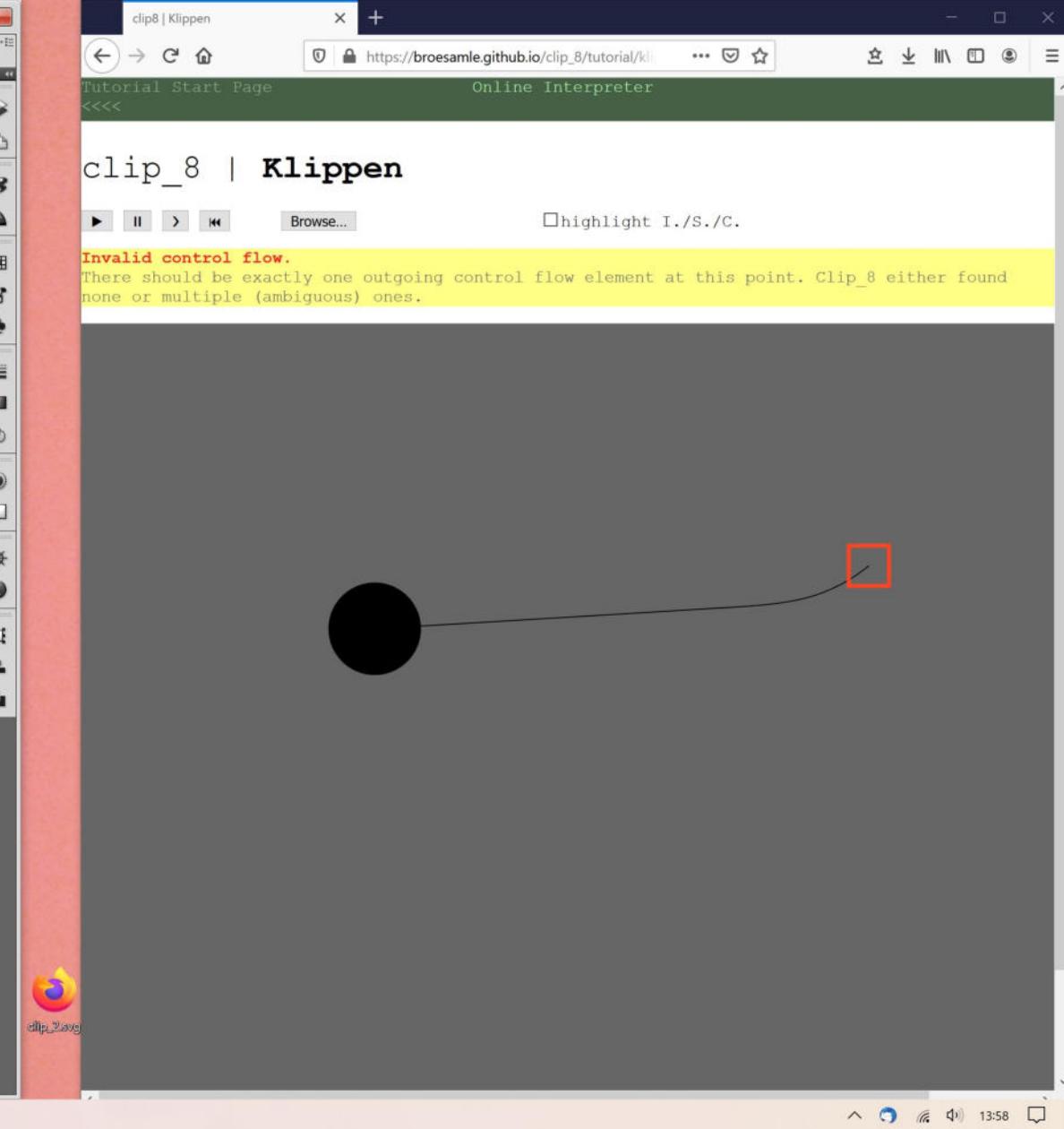
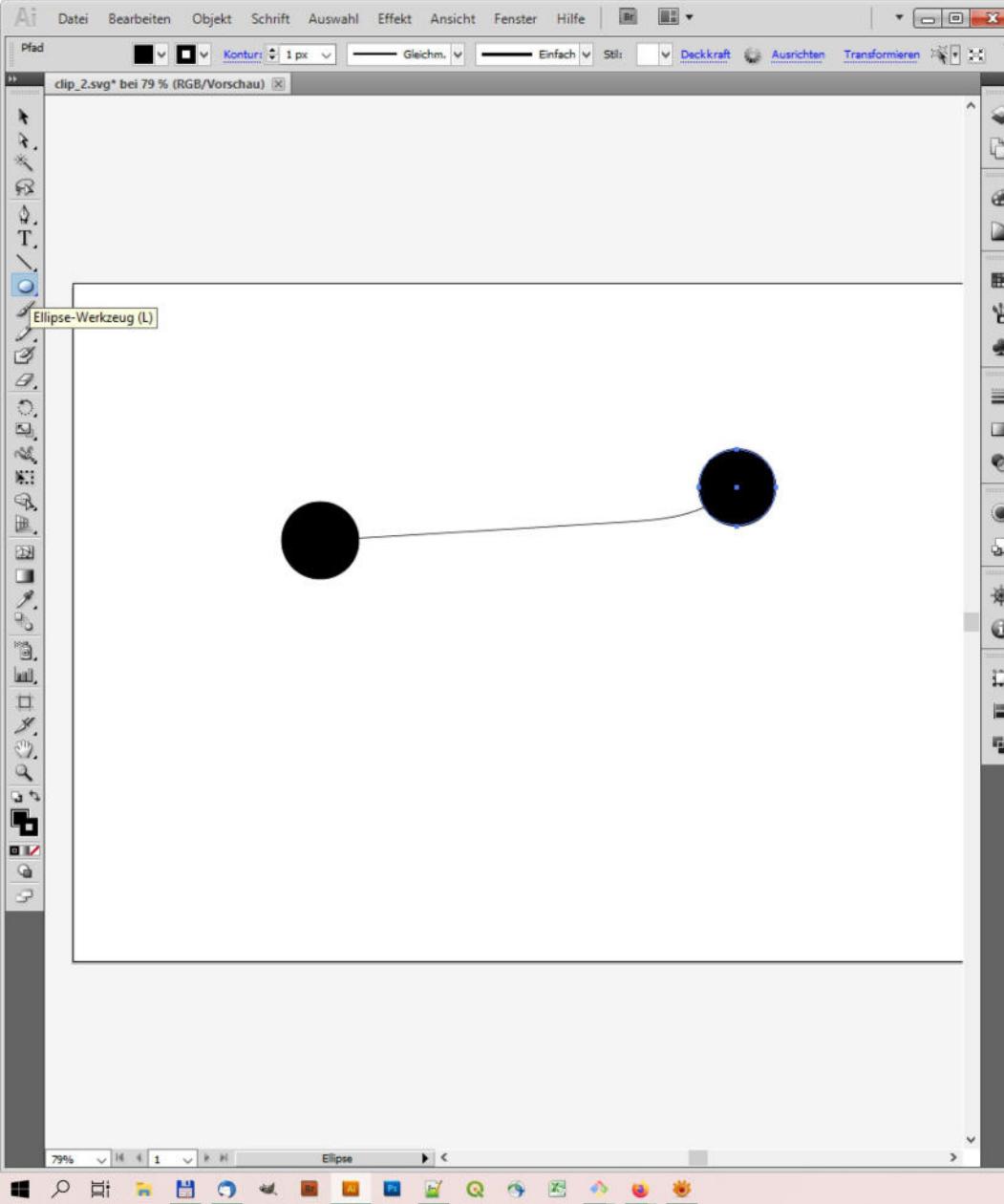
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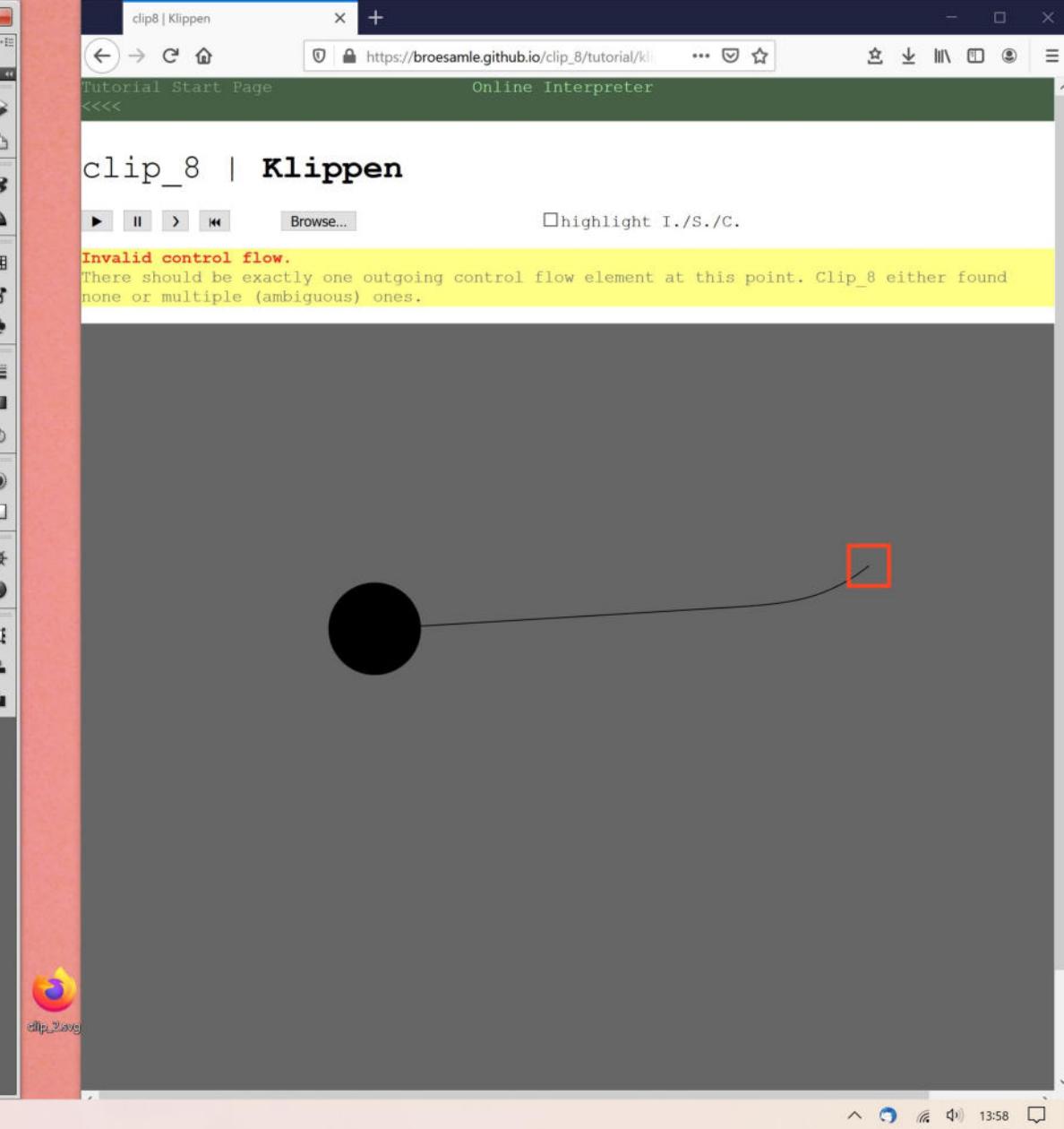
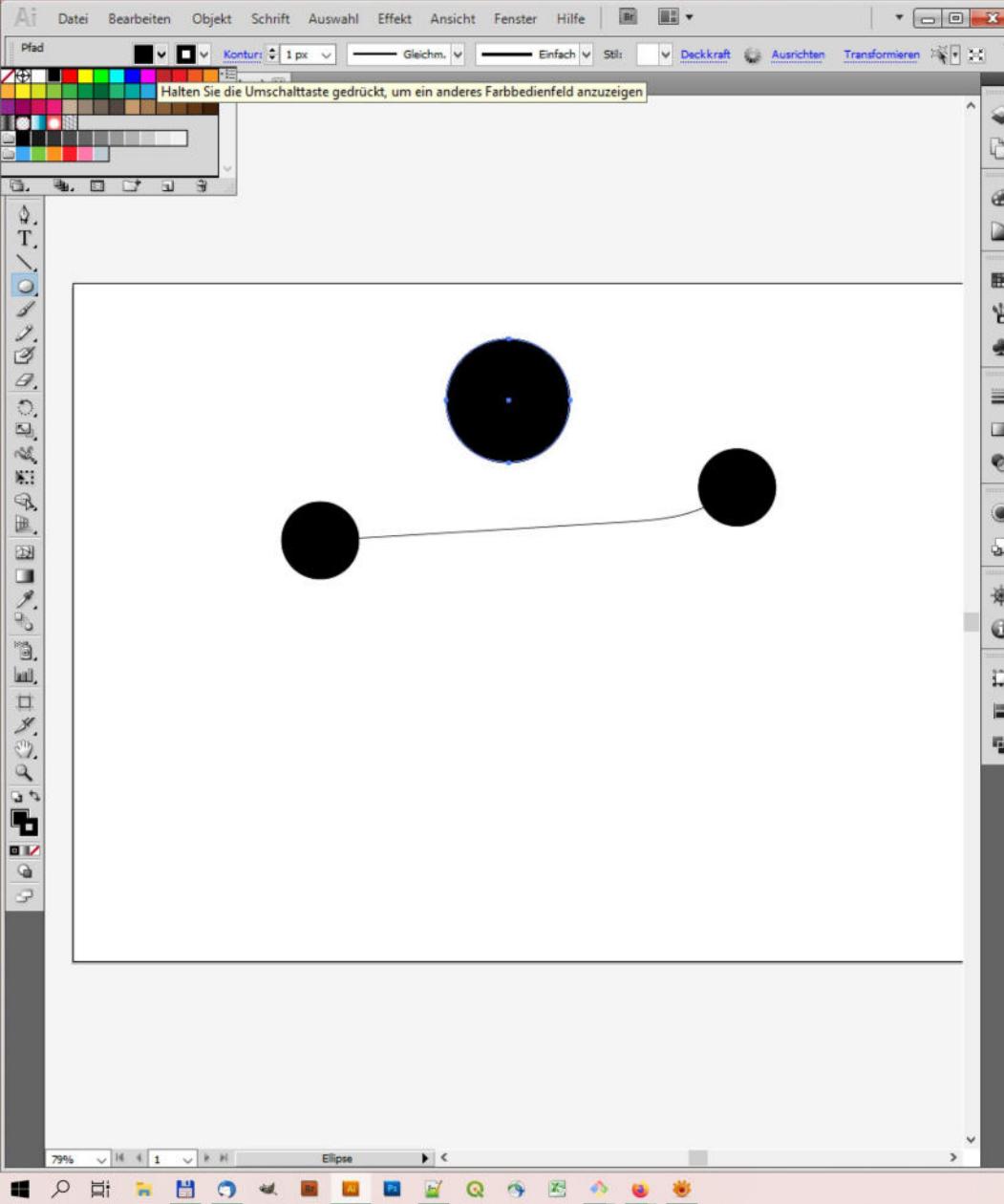
The screenshot shows a black circle with a red square inside it, centered on a dark gray background. Above the circle, there is a message about failing to identify an initial control flow path segment. The URL is https://broesamle.github.io/clip\_8/tutorial/klippen.

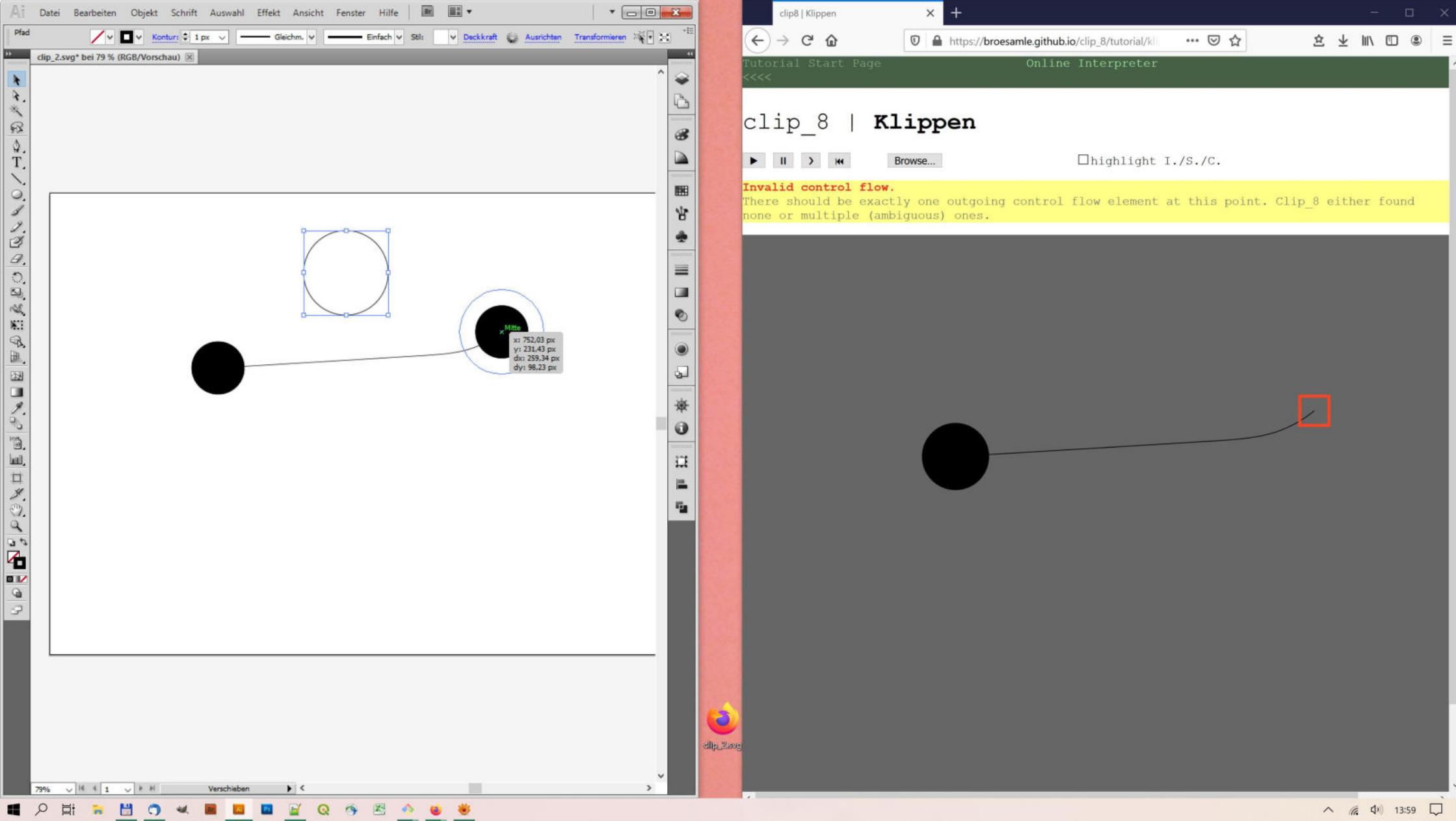


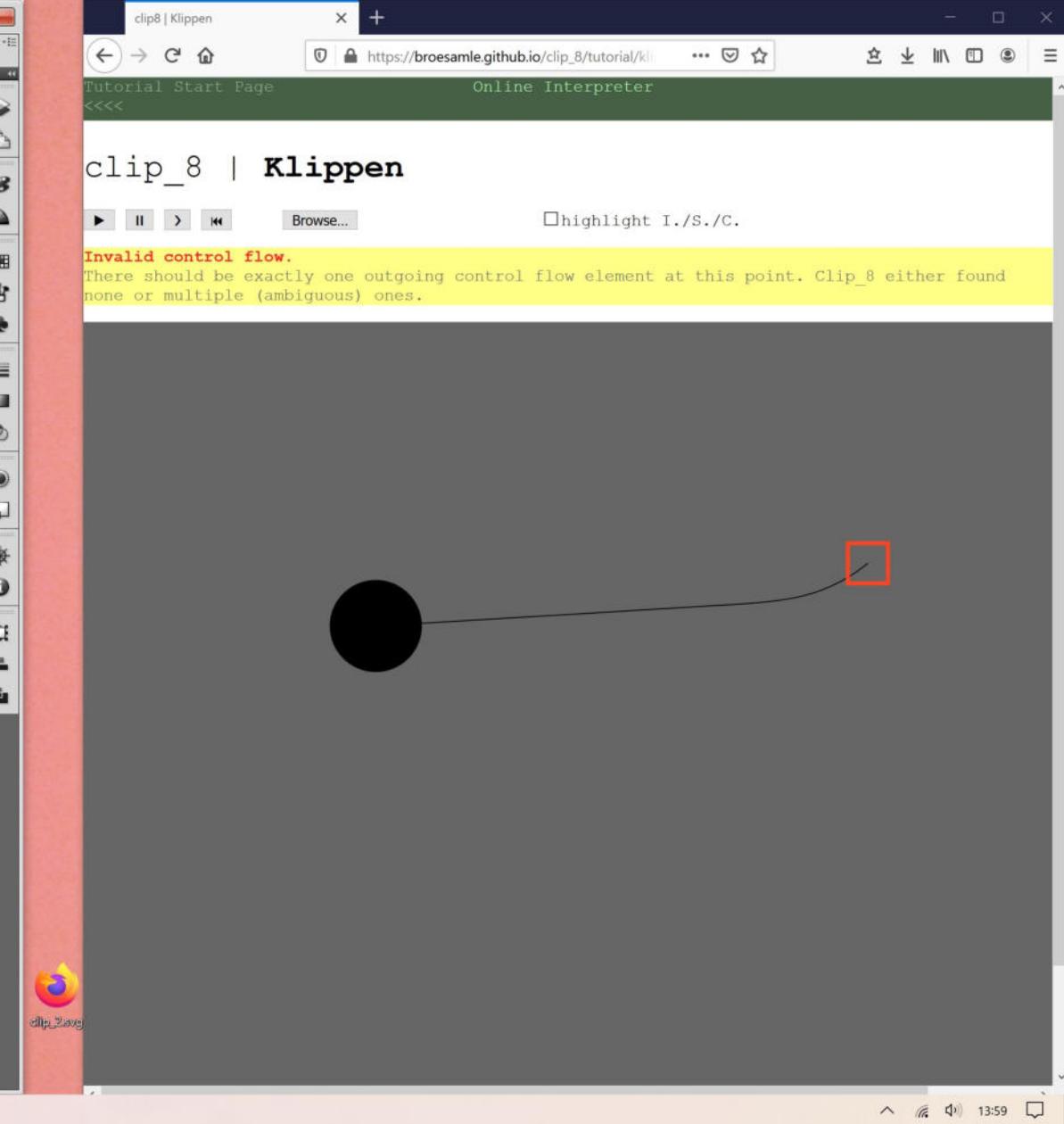
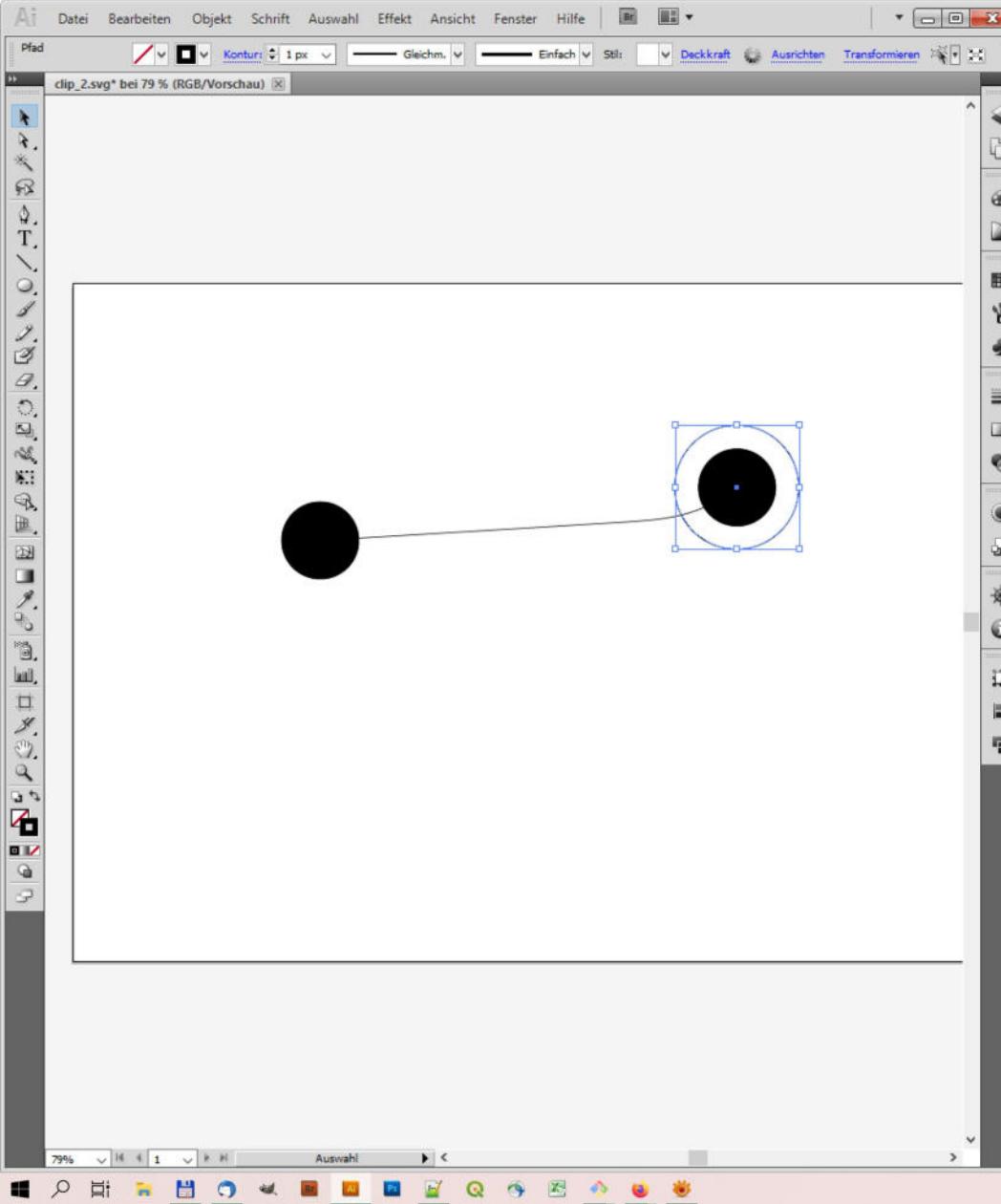


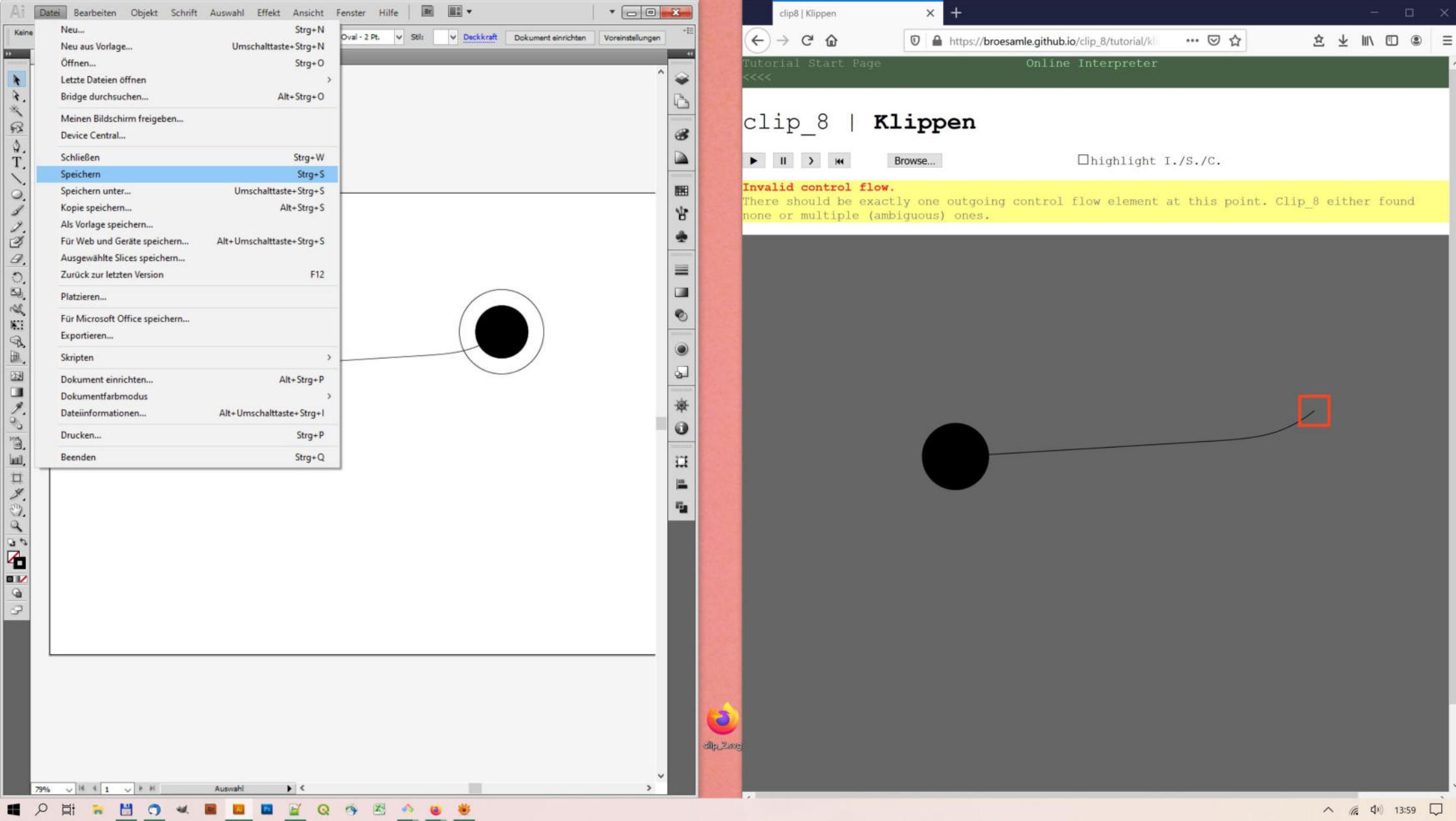


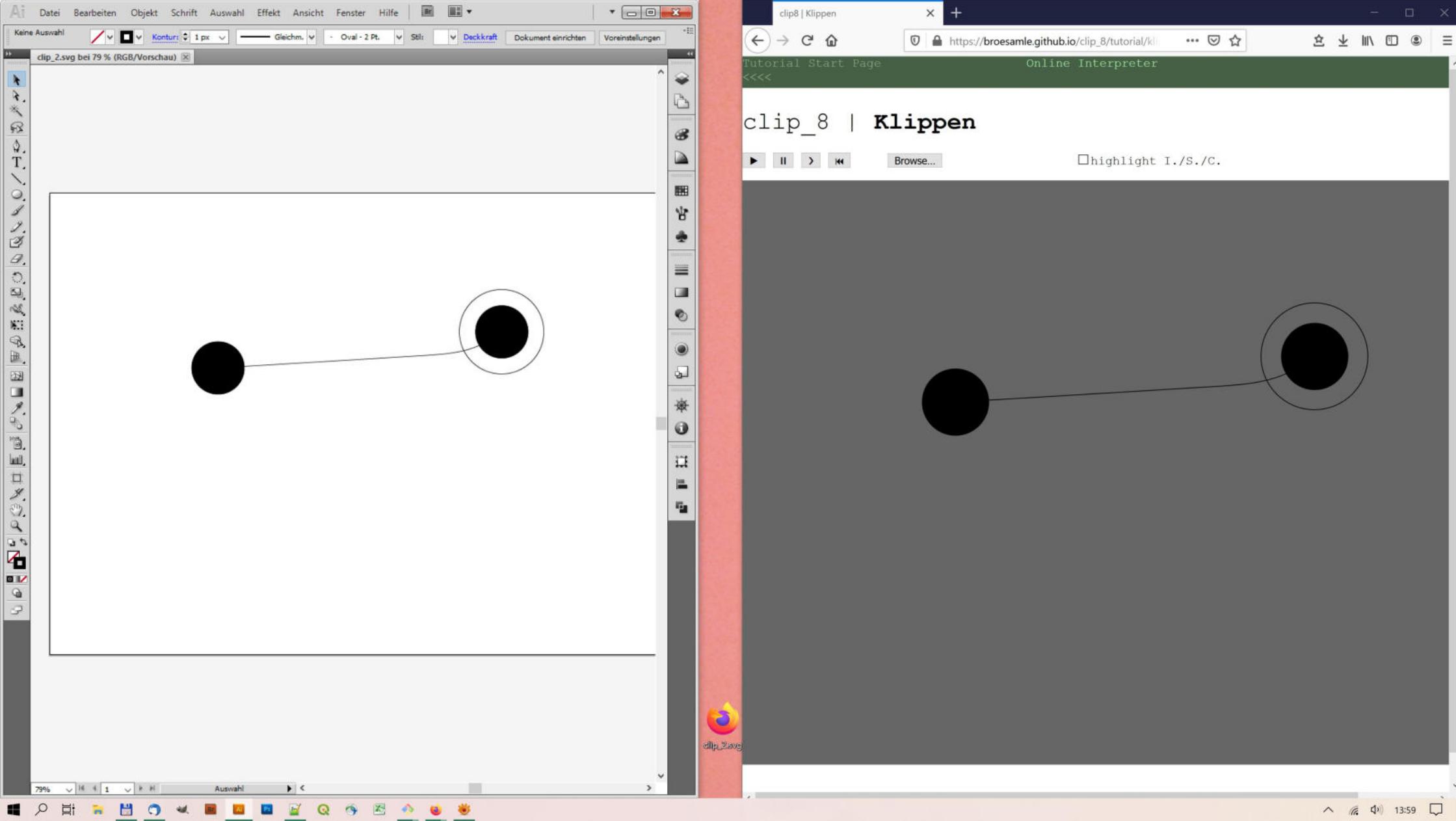


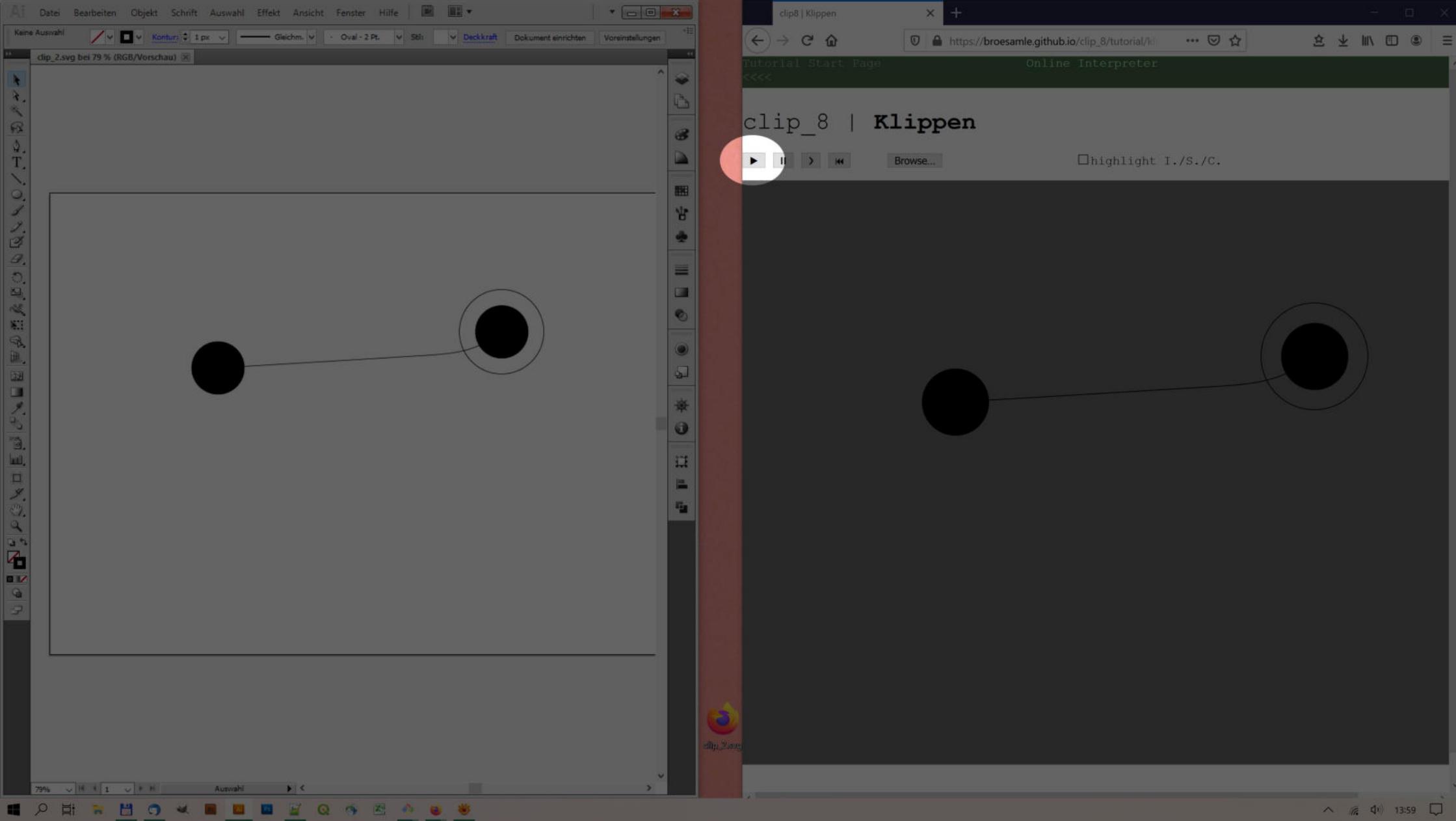


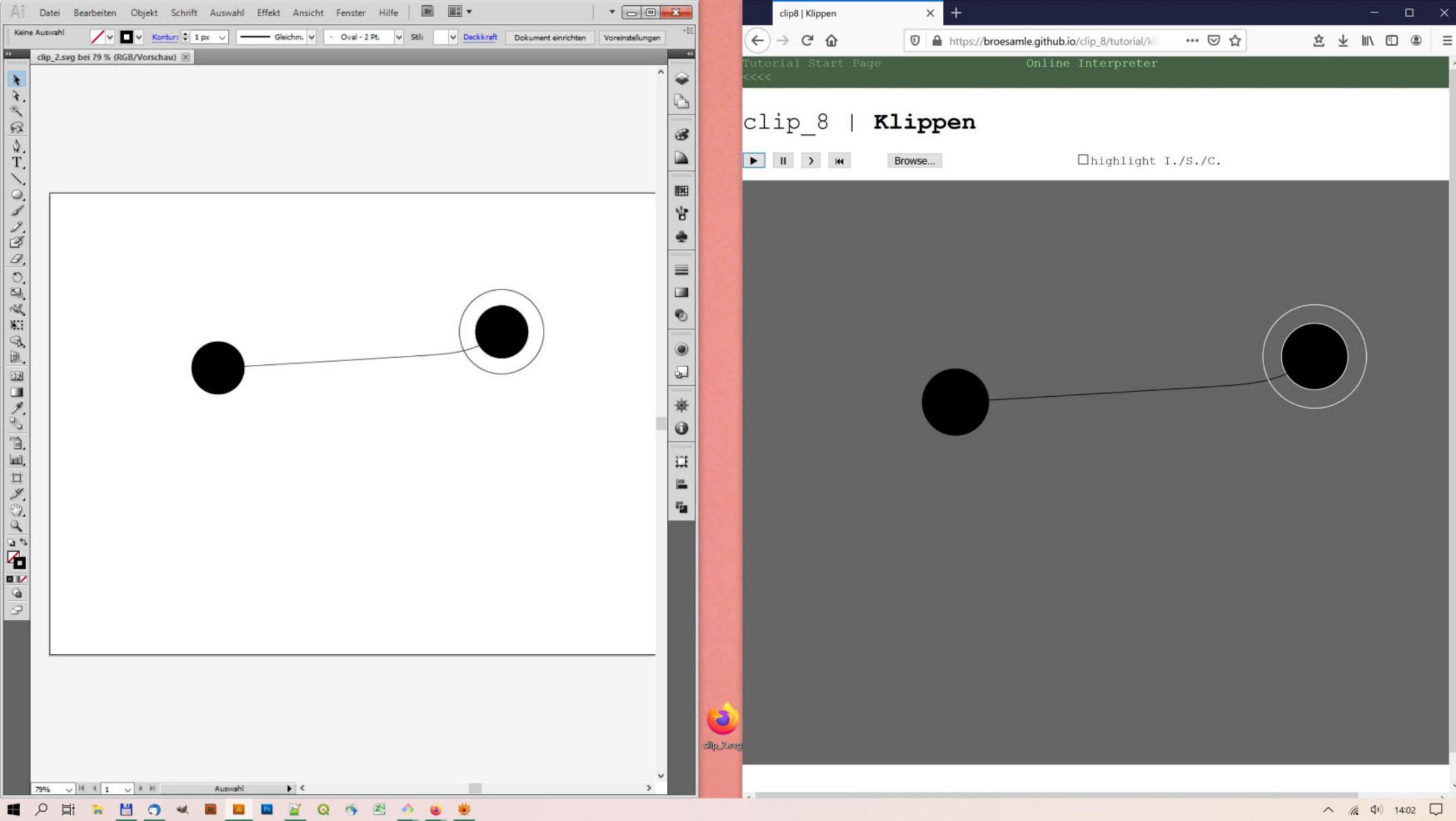


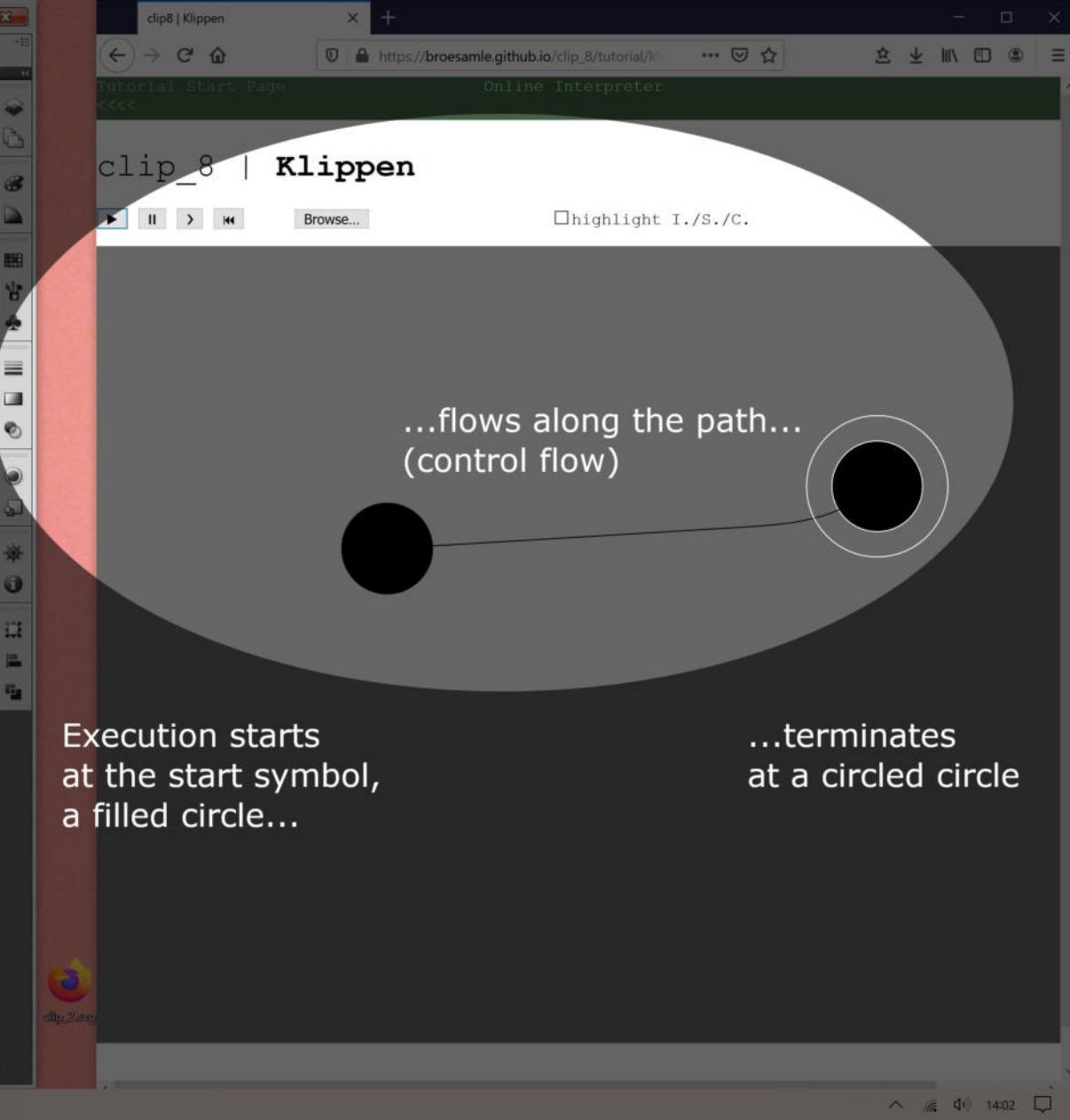
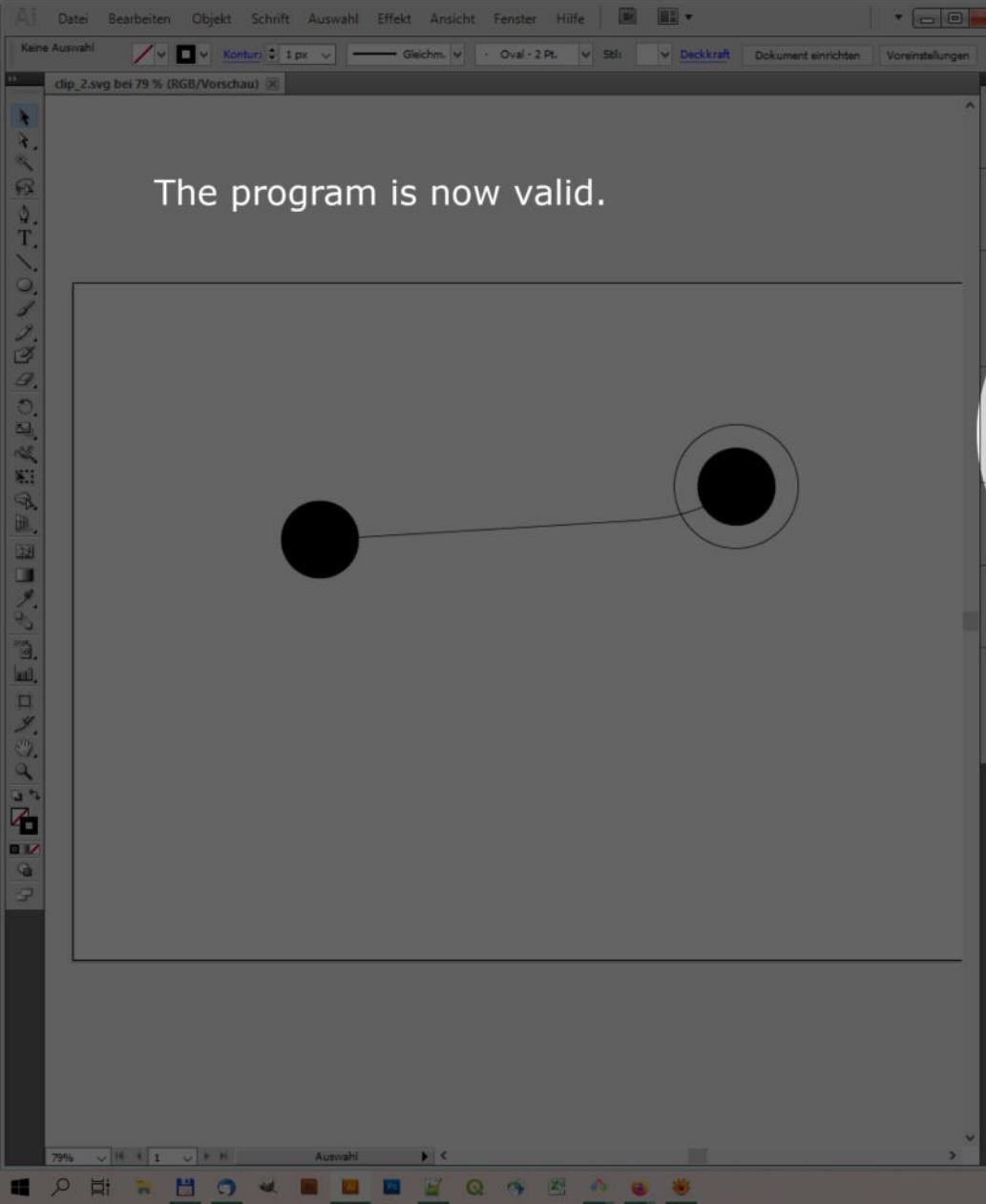
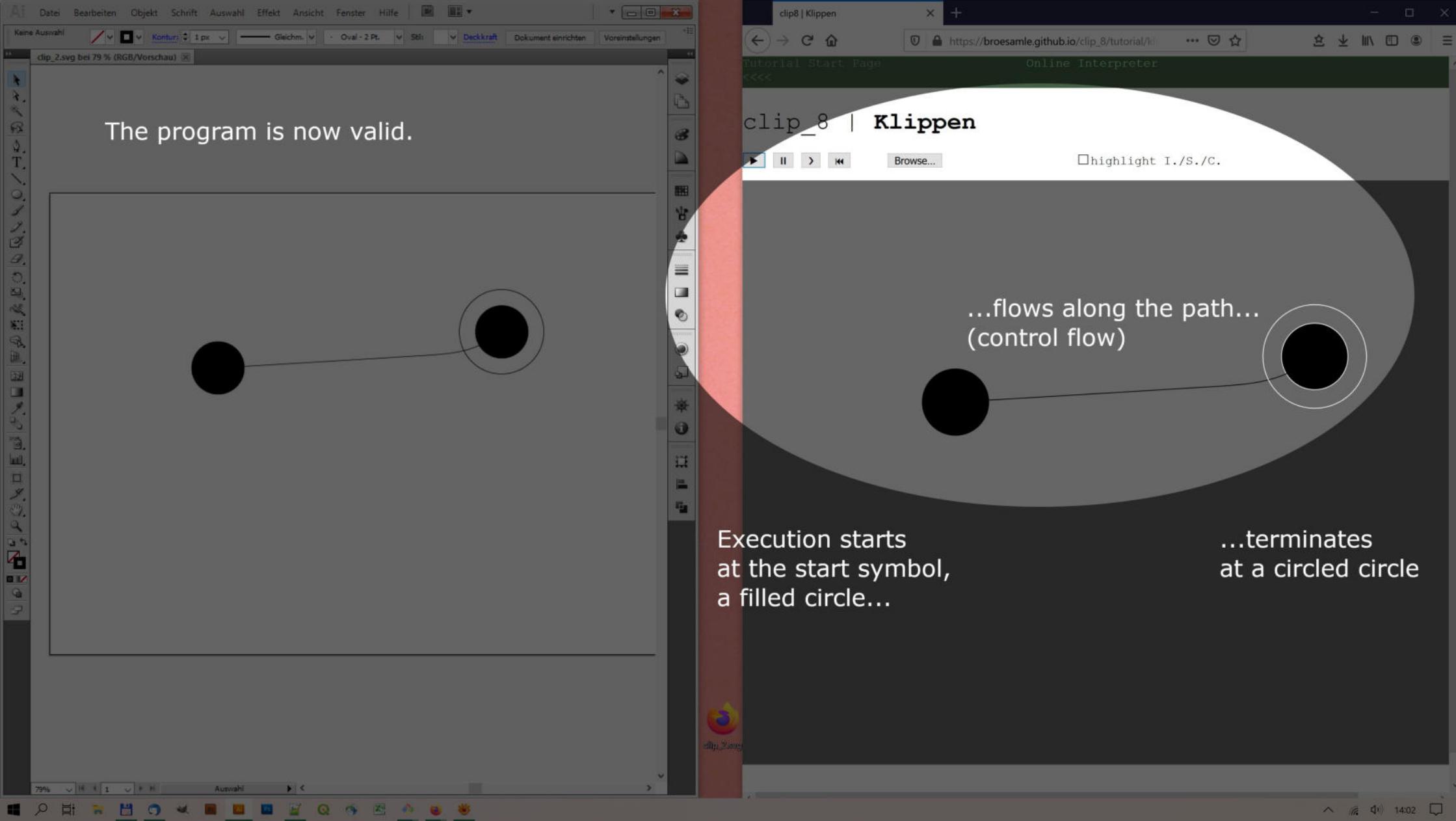


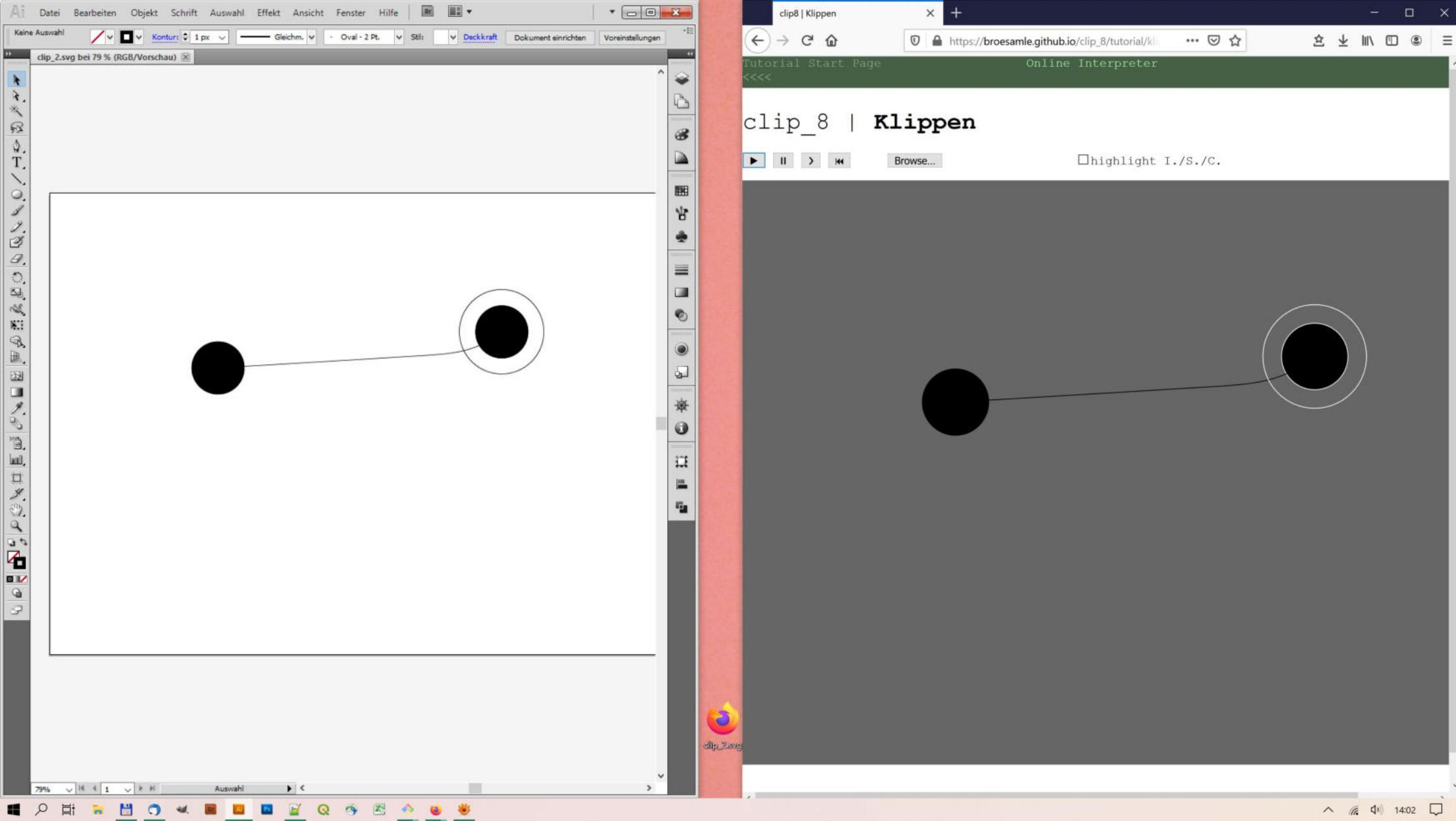


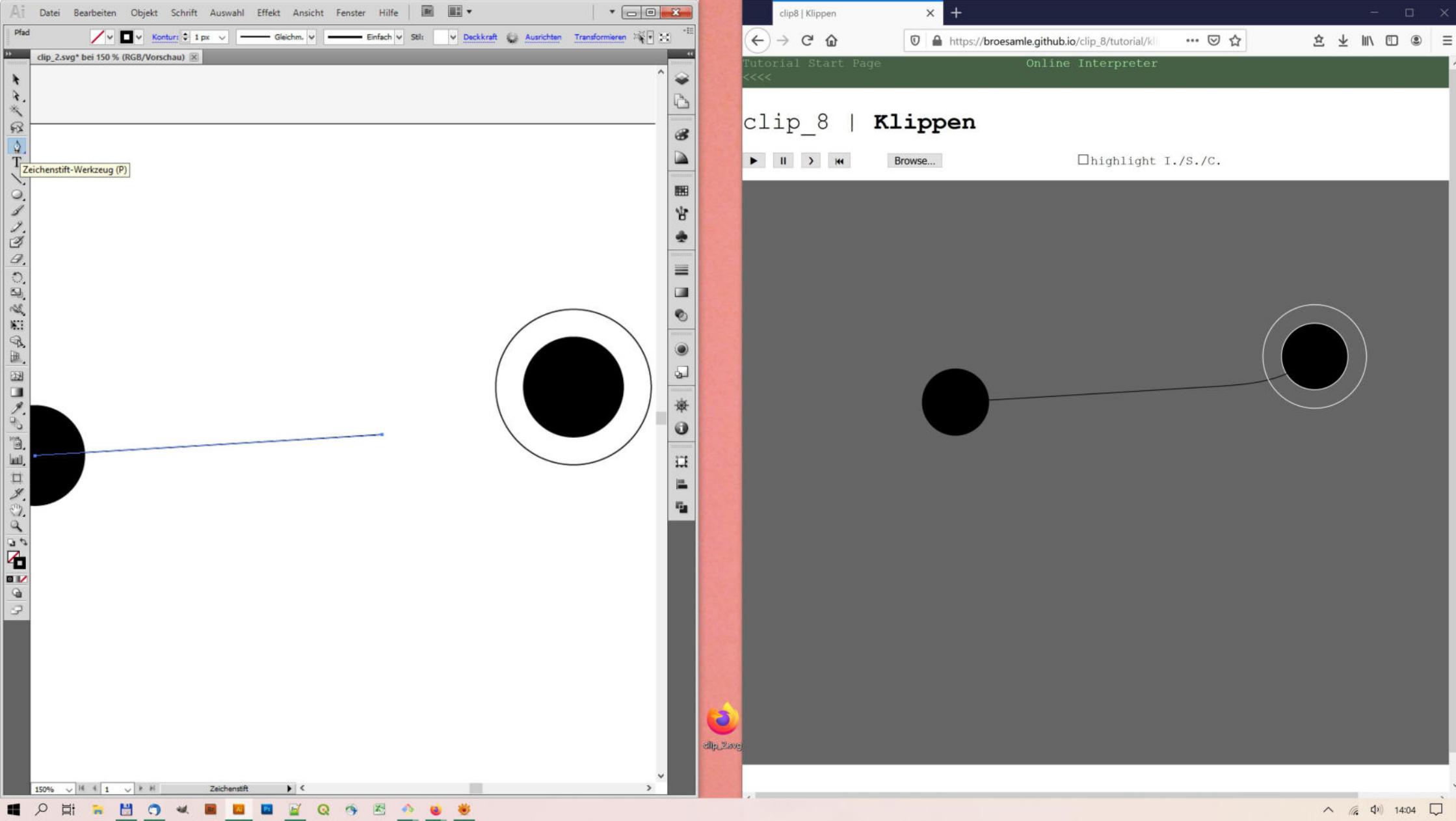


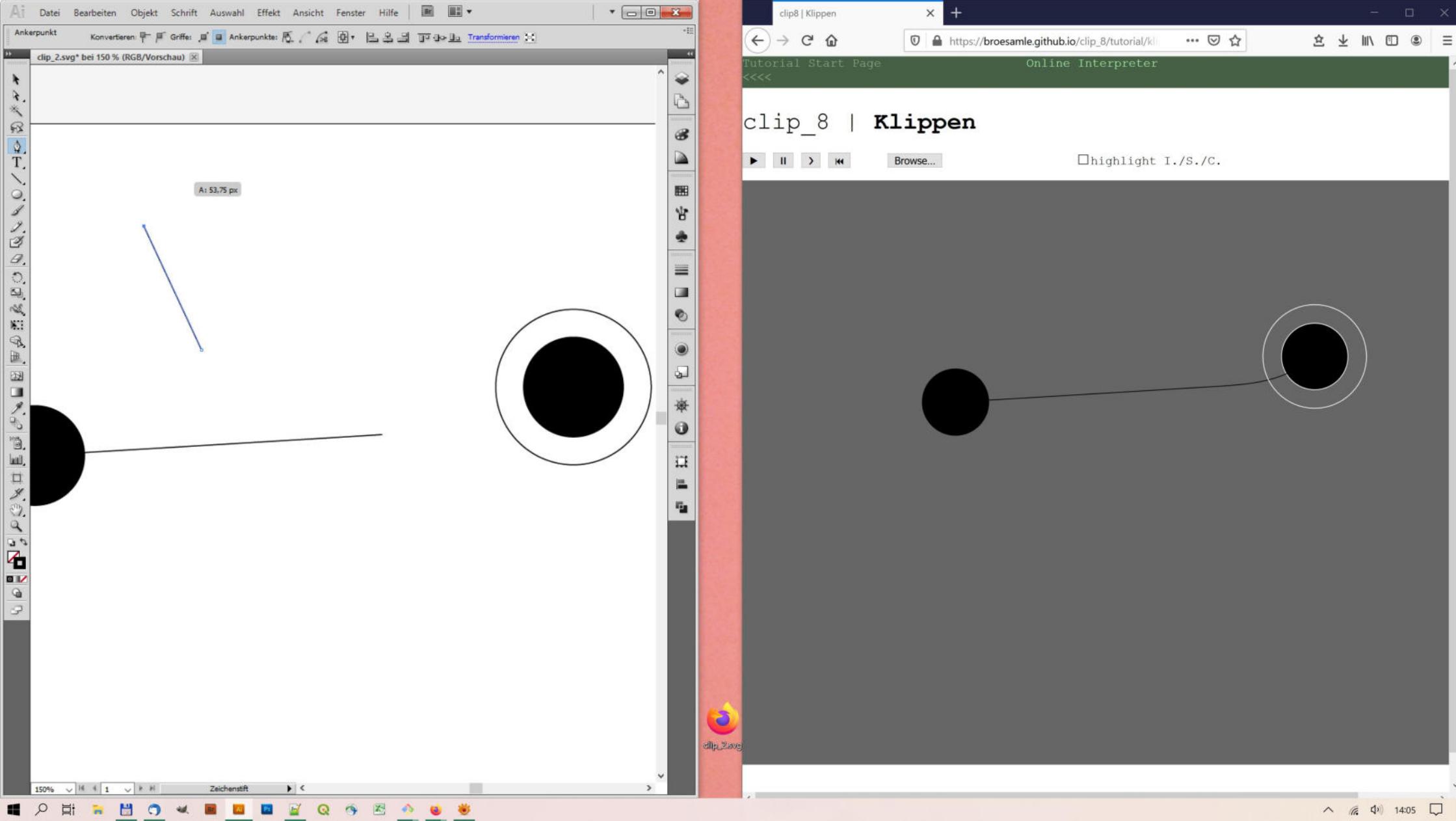












Ai Datei Bearbeiten Objekt Schrift Auswahl Effekt Ansicht Fenster Hilfe

Ankerpunkt Konvertieren Griffen Ankerpunkte Transformieren

clip\_2.svg\* bei 150 % (RGB/Vorschau)

The left side of the image shows the Adobe Illustrator interface. A rectangle with a diagonal line through it is selected. A large black circle is positioned to the left of the rectangle. The toolbar on the left contains various selection and drawing tools. A properties panel on the right shows stroke settings: Stärke (Thickness) set to 1 px, Abschluss (End Cap) set to flat, Ecken (Corners) set to rounded, and Kont. ausri.: (Corner Extension) set to 10 x. The status bar at the bottom indicates 150% zoom.

clip8 | Klippen

Tutorial Start Page Online Interpreter <<<

clip\_8 | Klippen

Browse...  highlight I./S./C.

The right side of the image shows a screenshot of a web browser window titled "clip8 | Klippen". The URL is https://broesamle.github.io/clip\_8/tutorial/klippen. The page displays the text "clip\_8 | Klippen" and "Tutorial Start Page". Below this is an "Online Interpreter" section with a "Browse..." button and a checkbox for "highlight I./S./C.". The main content area shows a black circle on the left and a white circle with a black outline on the right, connected by a thin black line.

Ai Datei Bearbeiten Objekt Schrift Auswahl Effekt Ansicht Fenster Hilfe

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clip\_2.svg\* bei 150 % (RGB/Vorschau)

The left side of the image shows the Adobe Illustrator interface. A rectangle with a diagonal line through it is selected. A black circle is positioned to the left of the rectangle. The right side of the interface shows the 'Kontur' (Stroke) panel open, with various stroke settings like 'Stärke' (Width), 'Abschluss' (End Cap), 'Ecken' (Corners), and 'Kont. ausr.' (Outline Outset) visible. A dropdown menu for 'Stärke' is open, showing values from 1px to 40px, with '6 Px' highlighted.

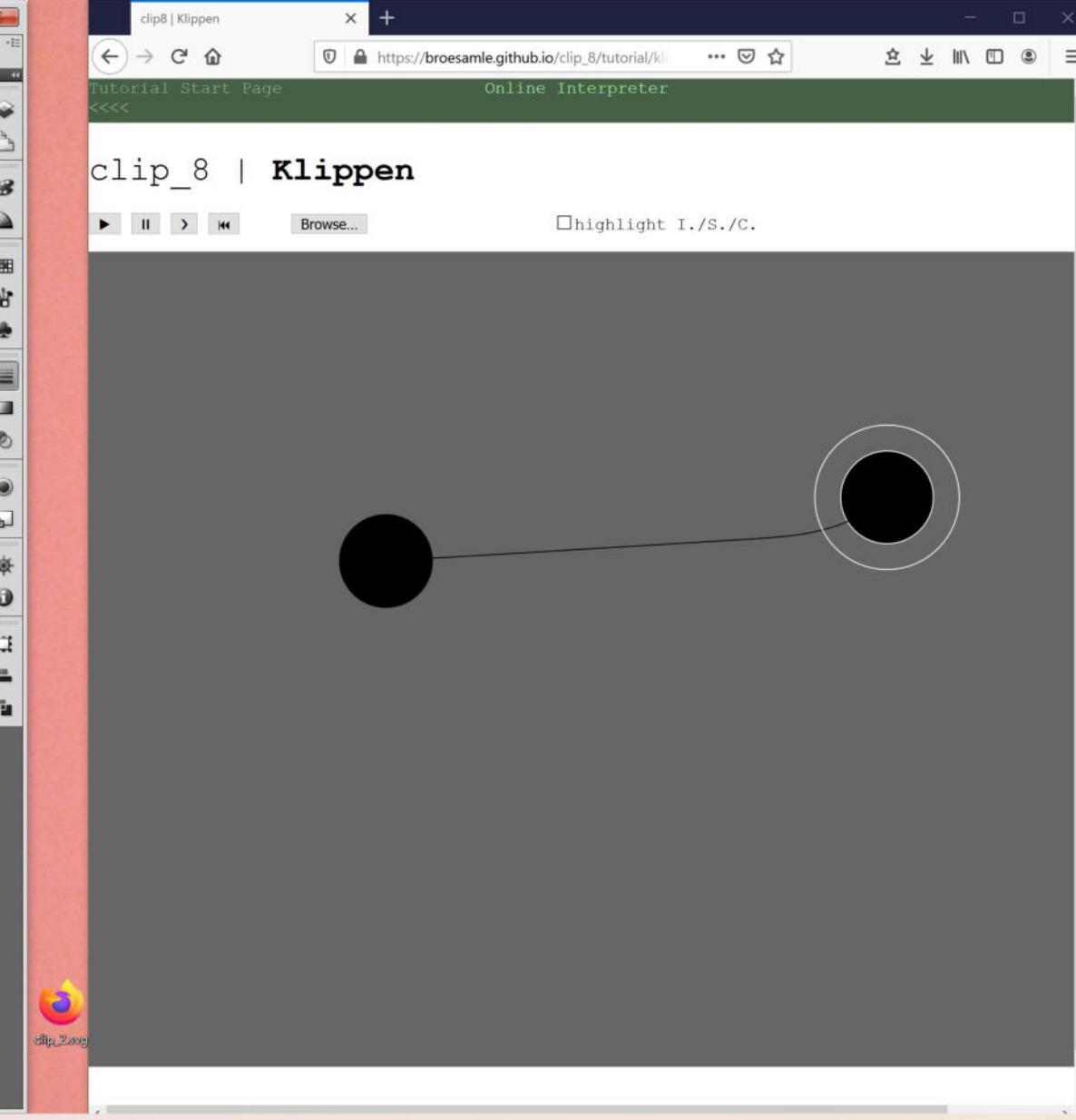
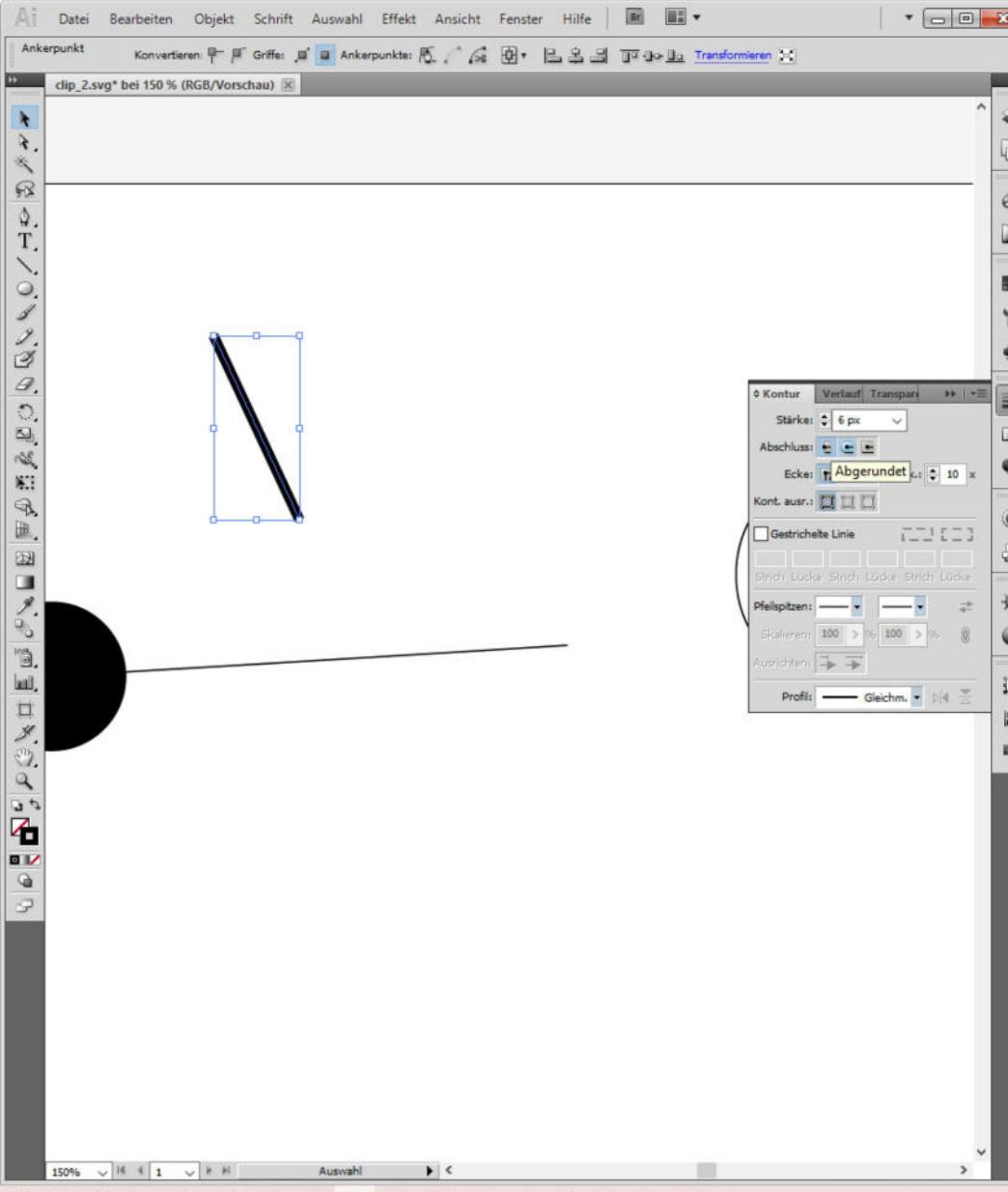
clip8 | Klippen

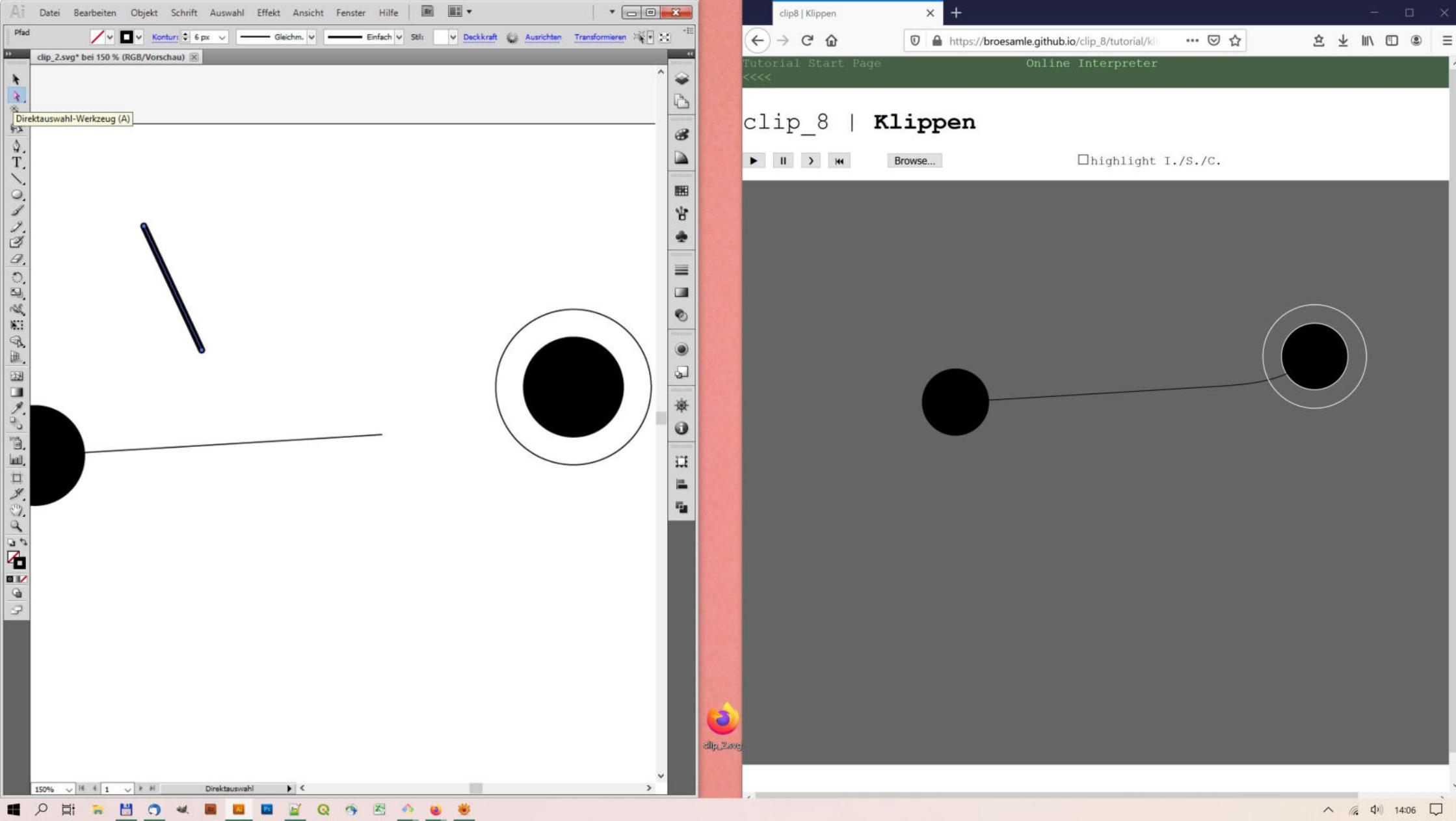
Tutorial Start Page Online Interpreter

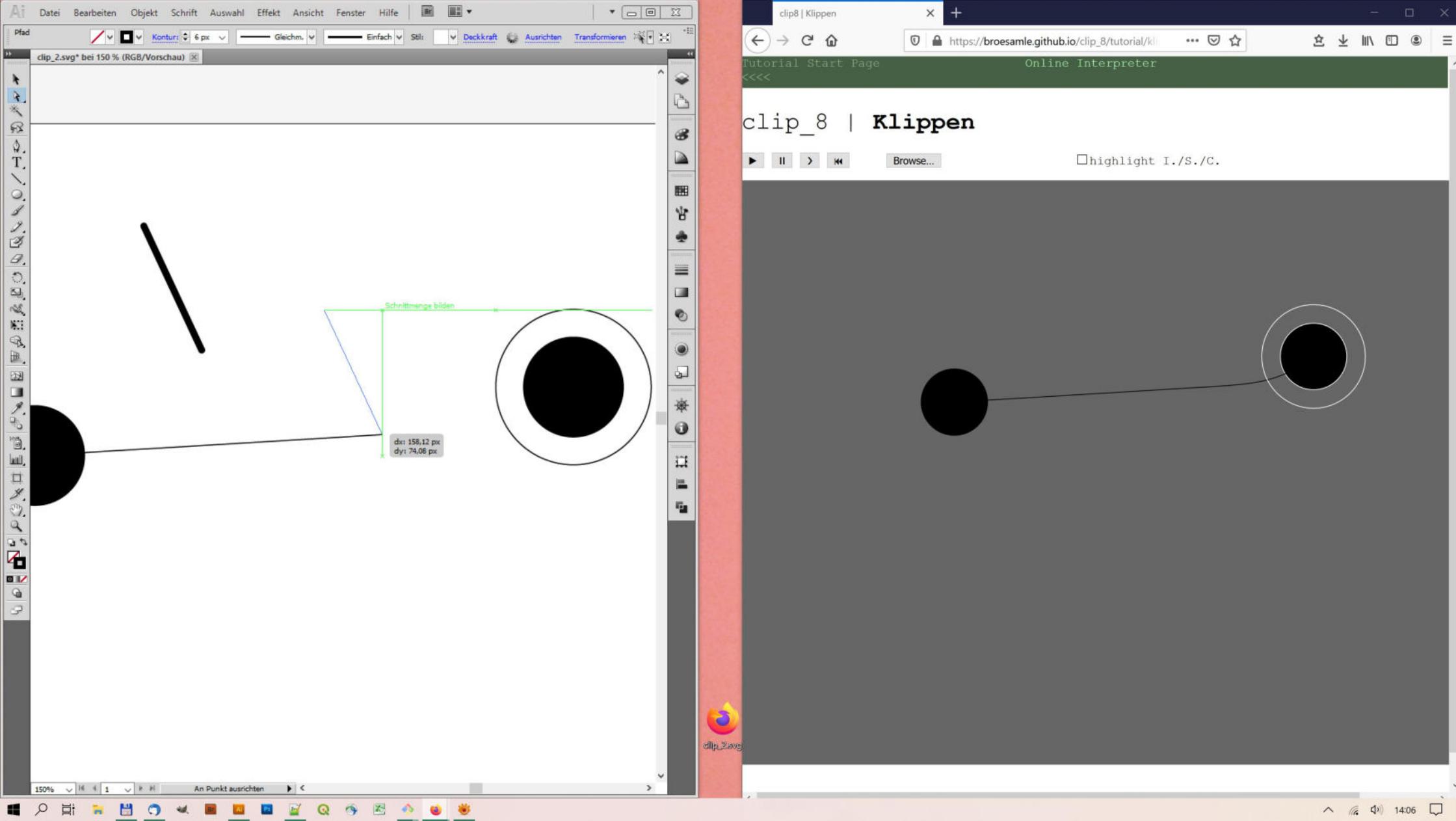
clip\_8 | Klippen

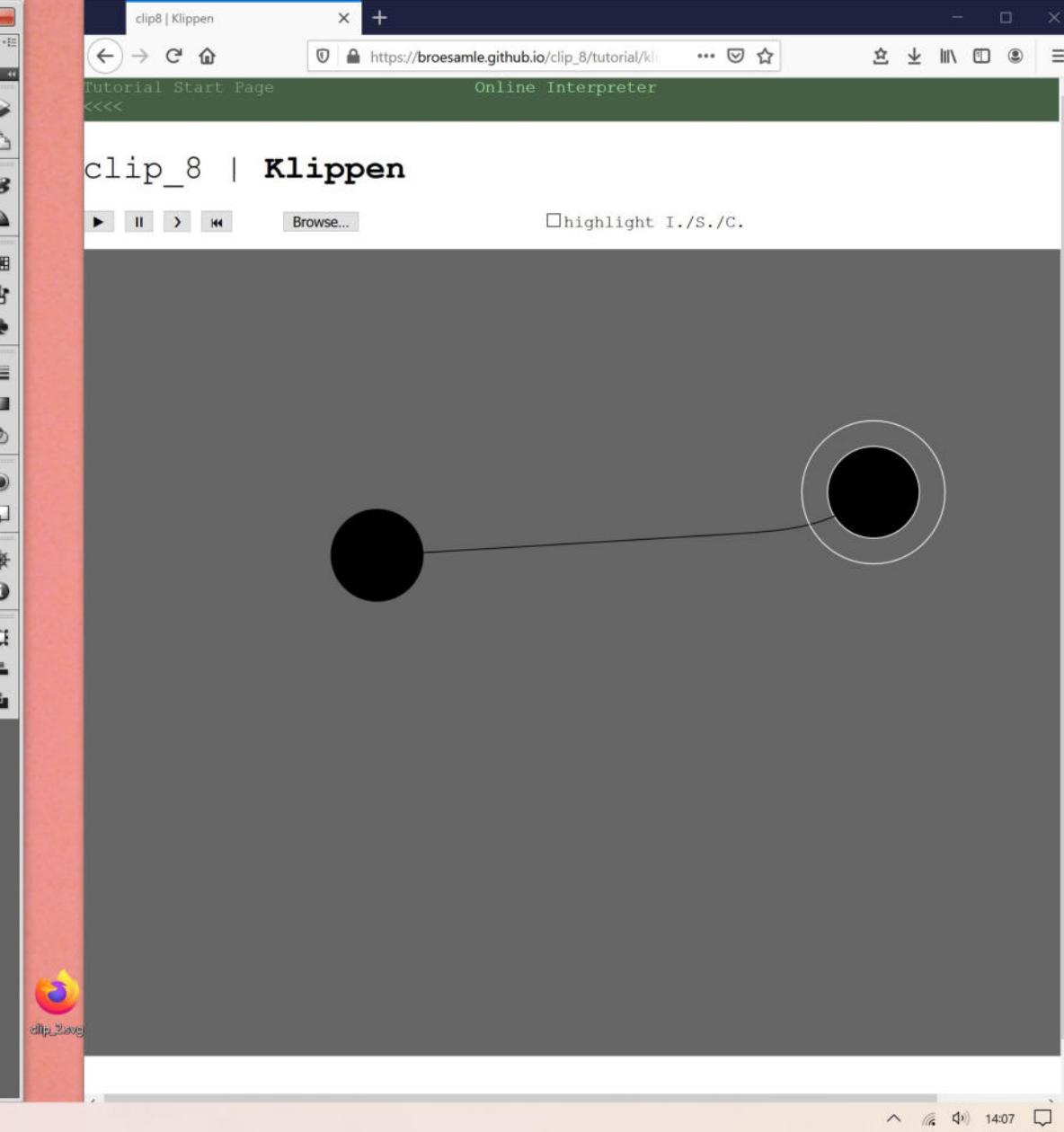
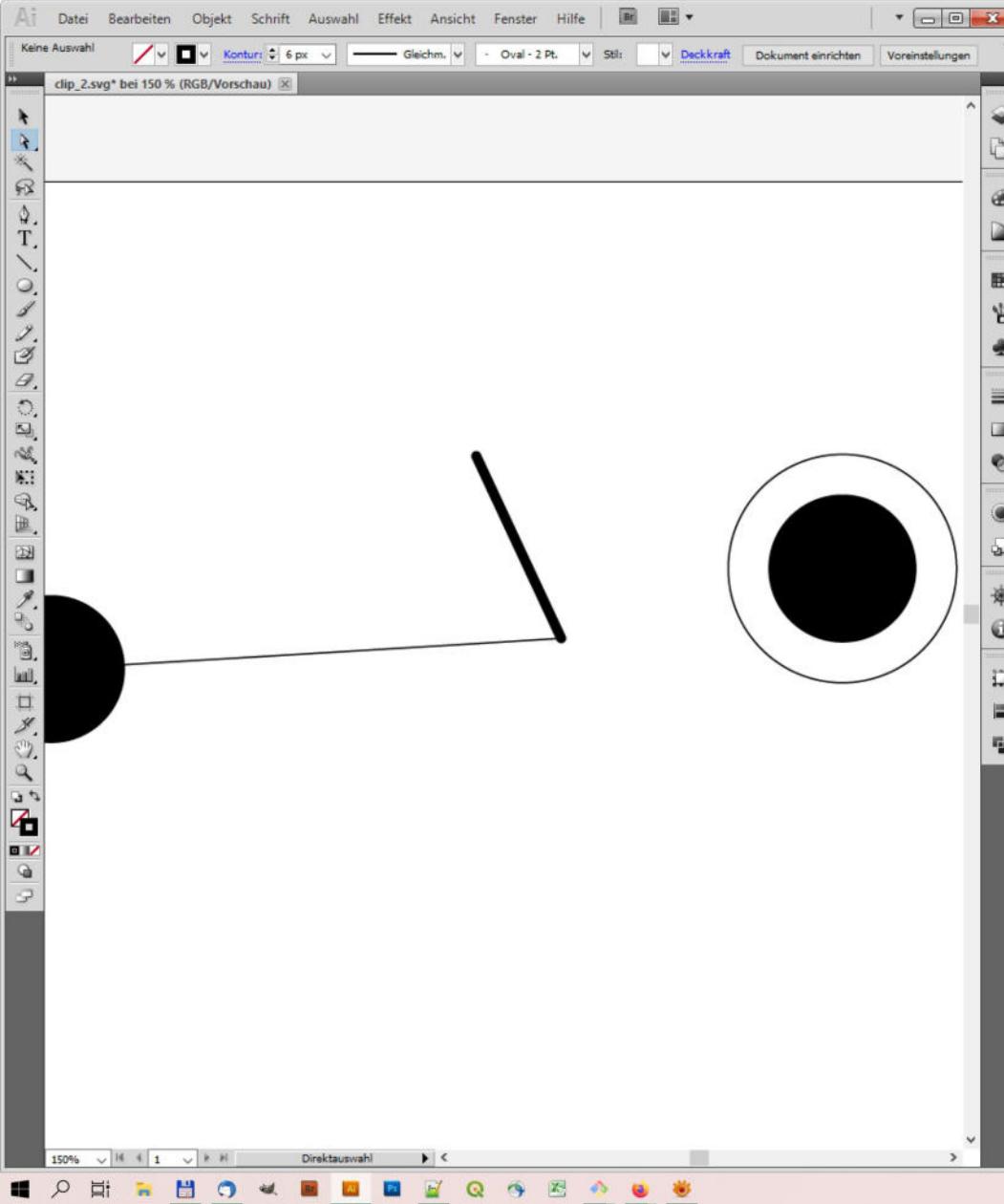
Browse...  highlight I./S./C.

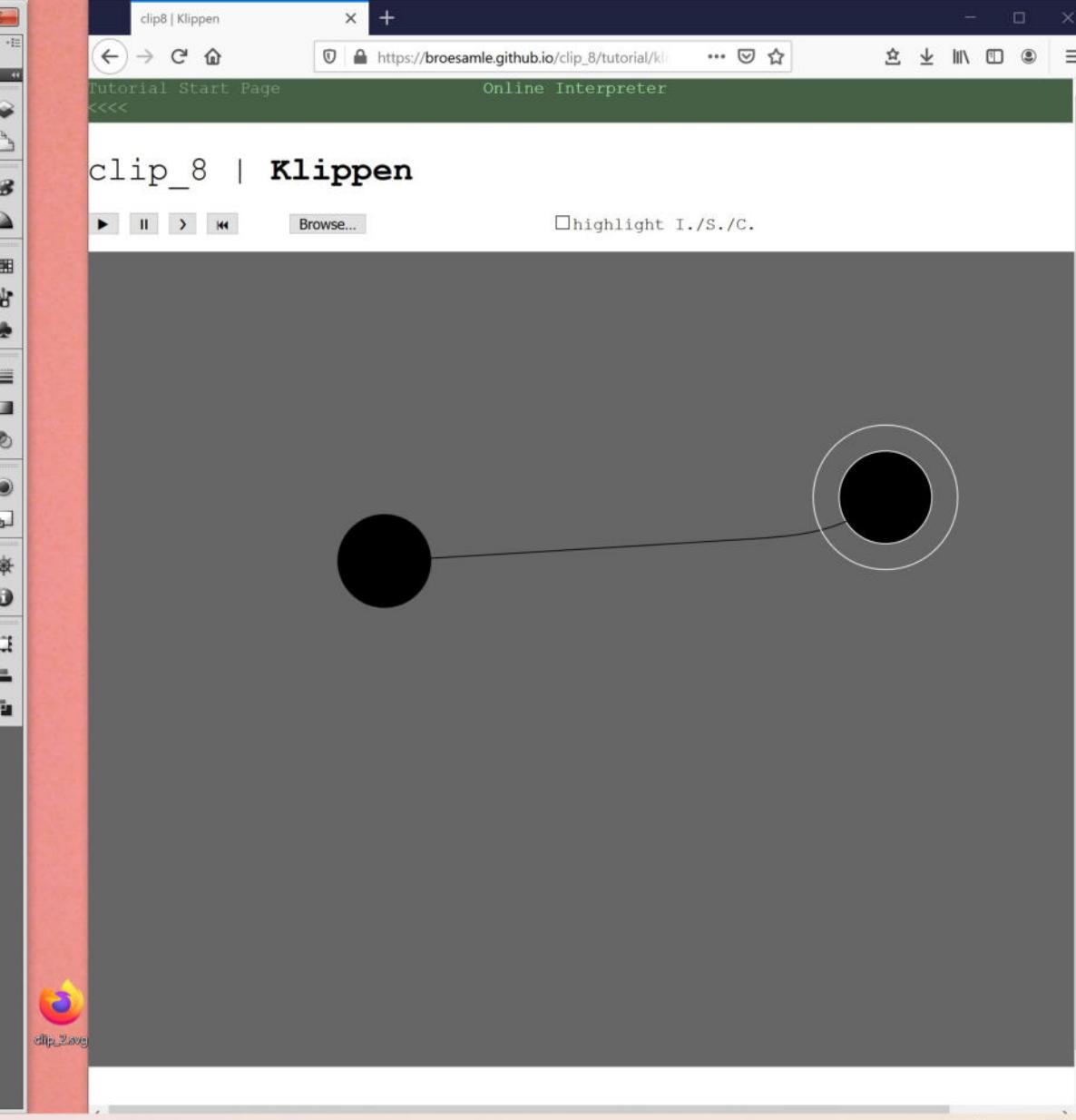
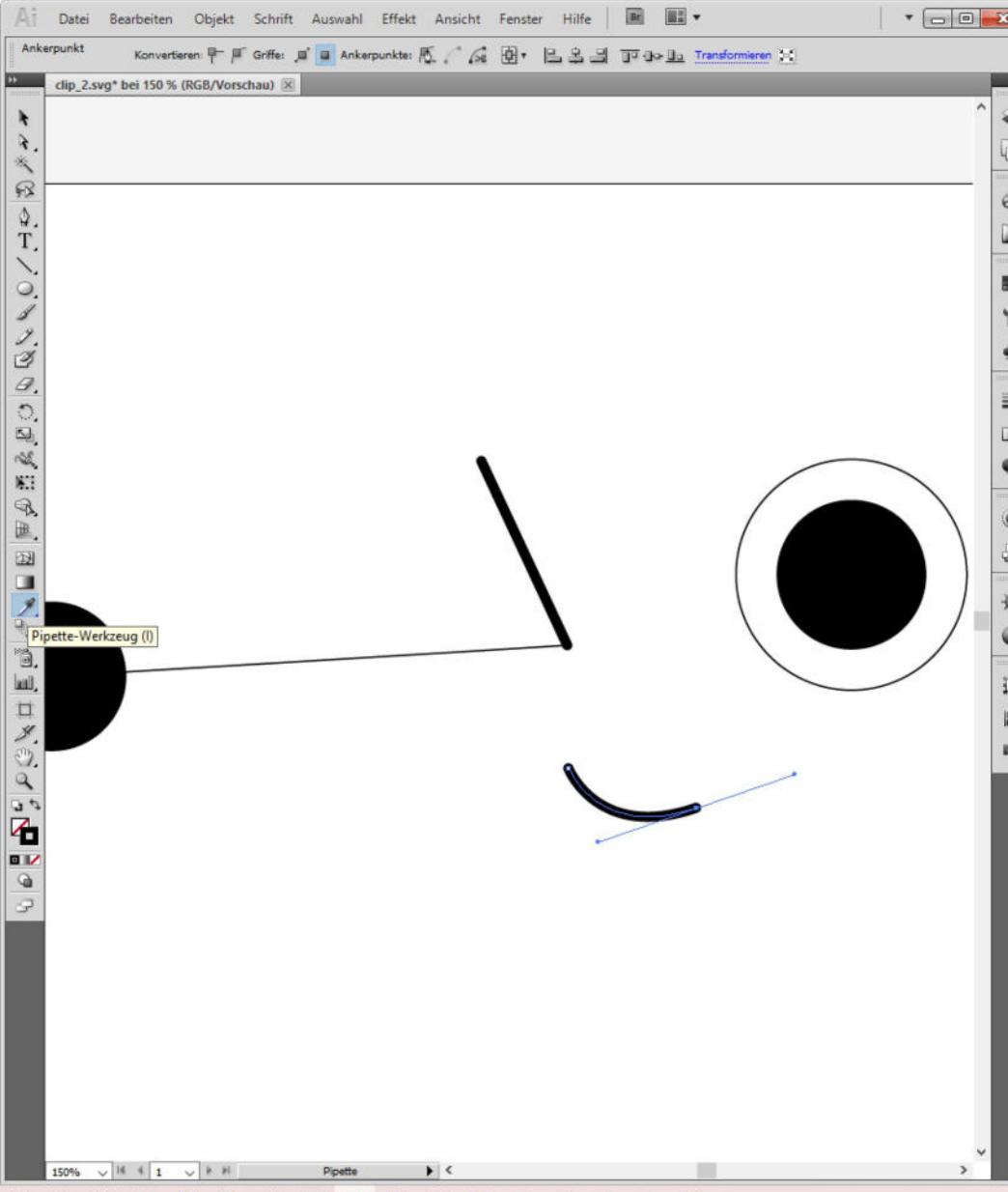
The right side of the image shows a screenshot of a web browser window titled 'clip8 | Klippen'. The URL is https://broesamle.github.io/clip\_8/tutorial/klippen. The page displays a black circle on the left and a white circle with a black center on the right, connected by a thin line. There are navigation buttons at the top and a checkbox labeled 'highlight I./S./C.'.

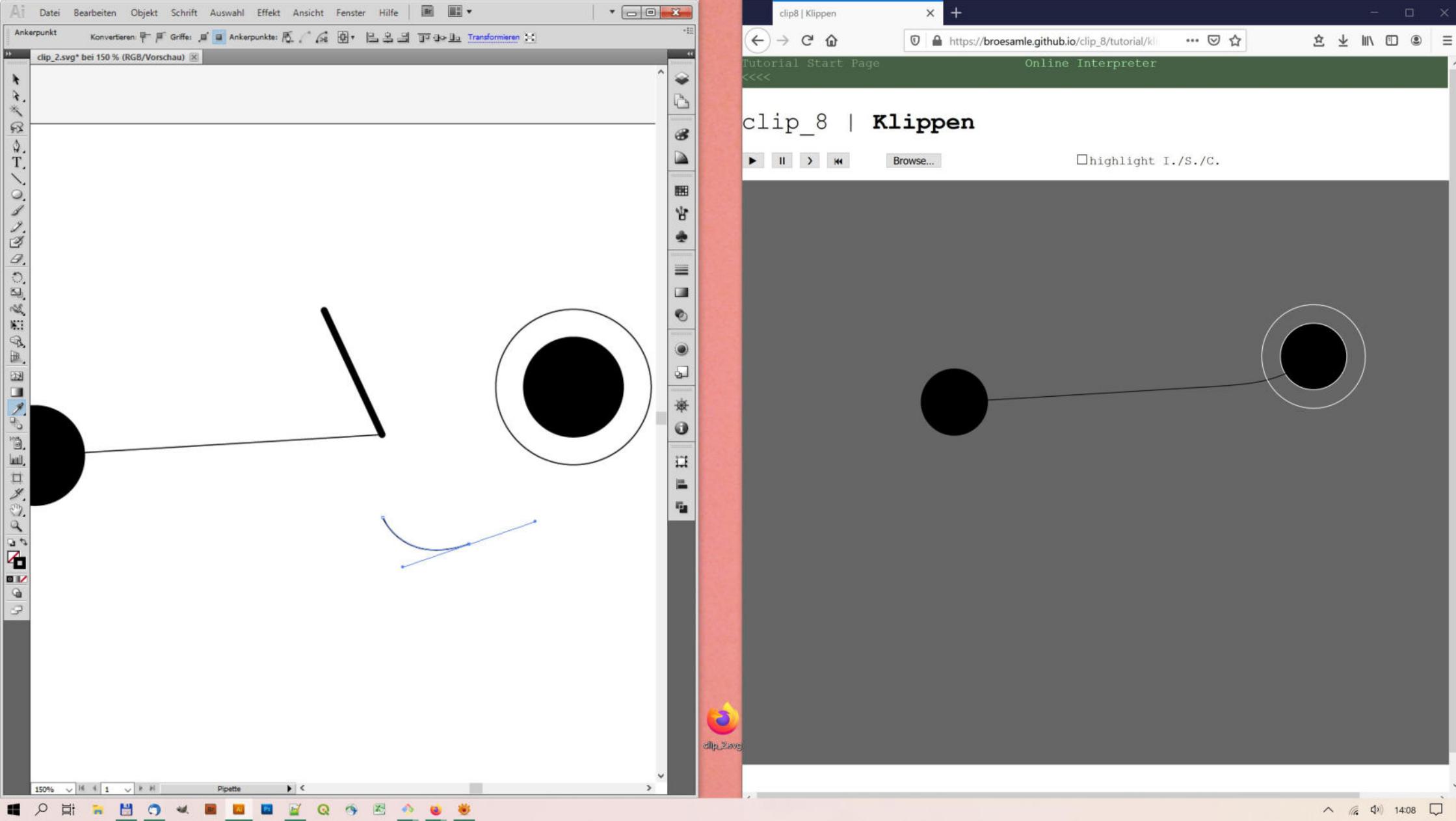


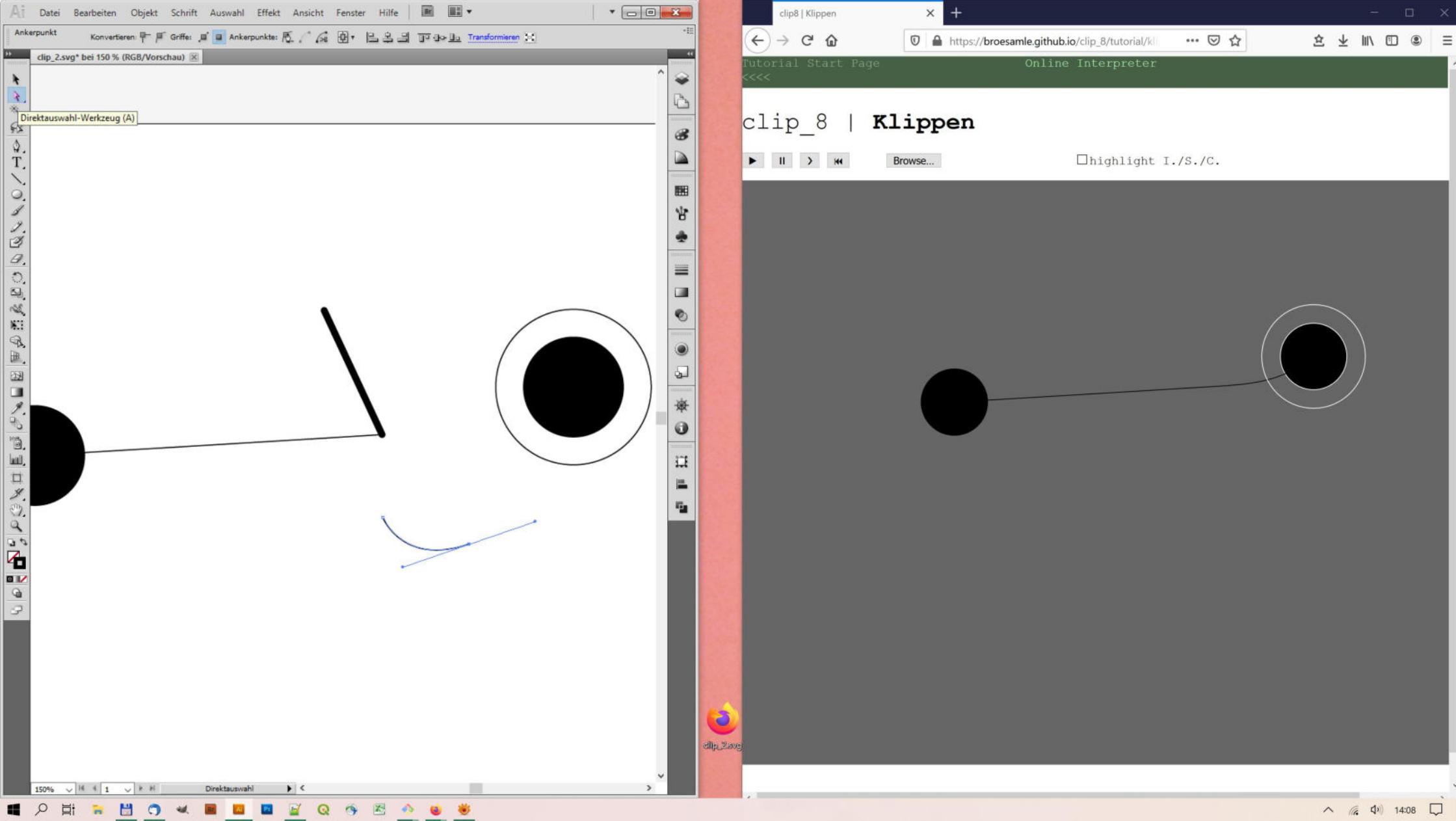


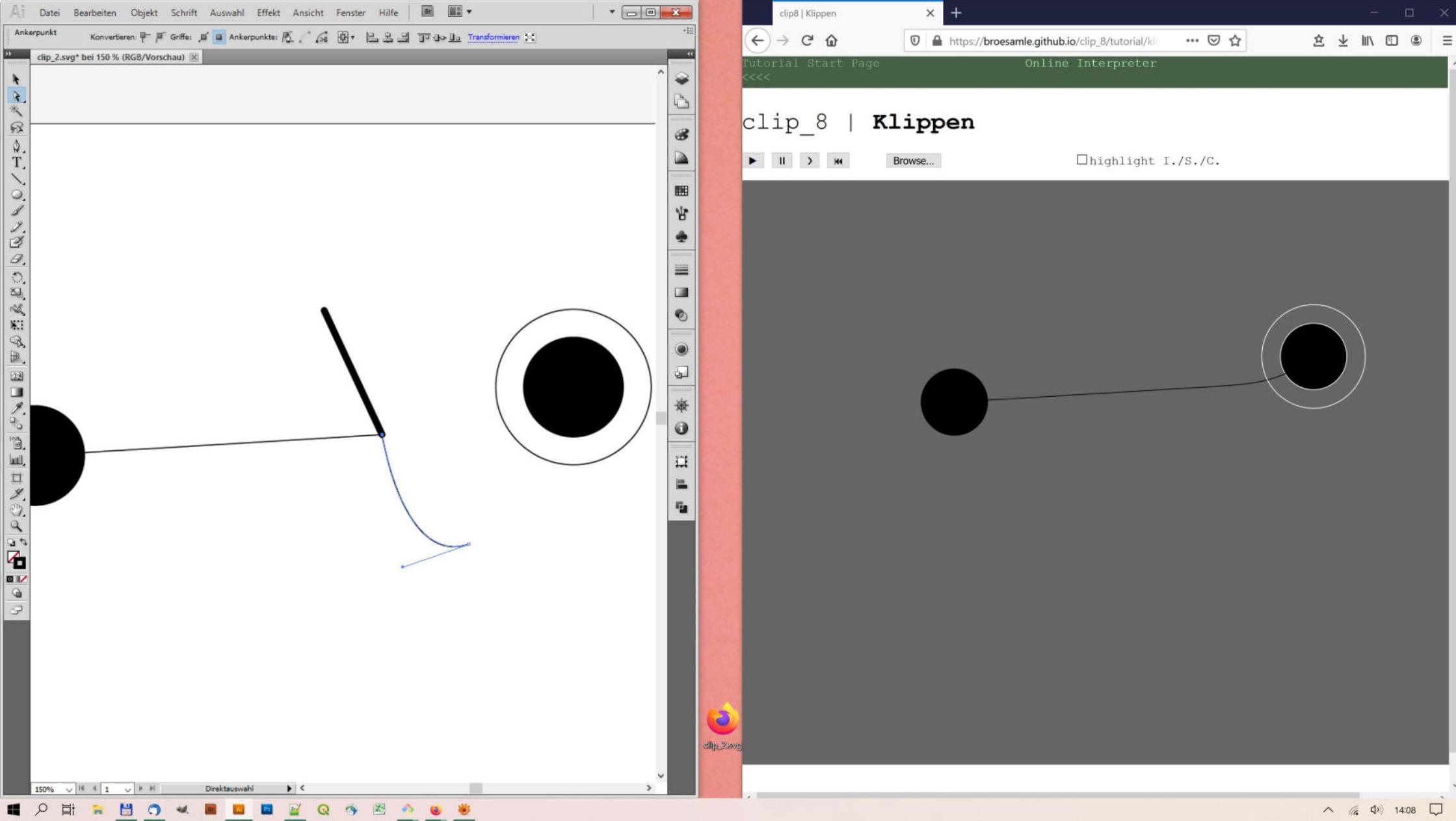


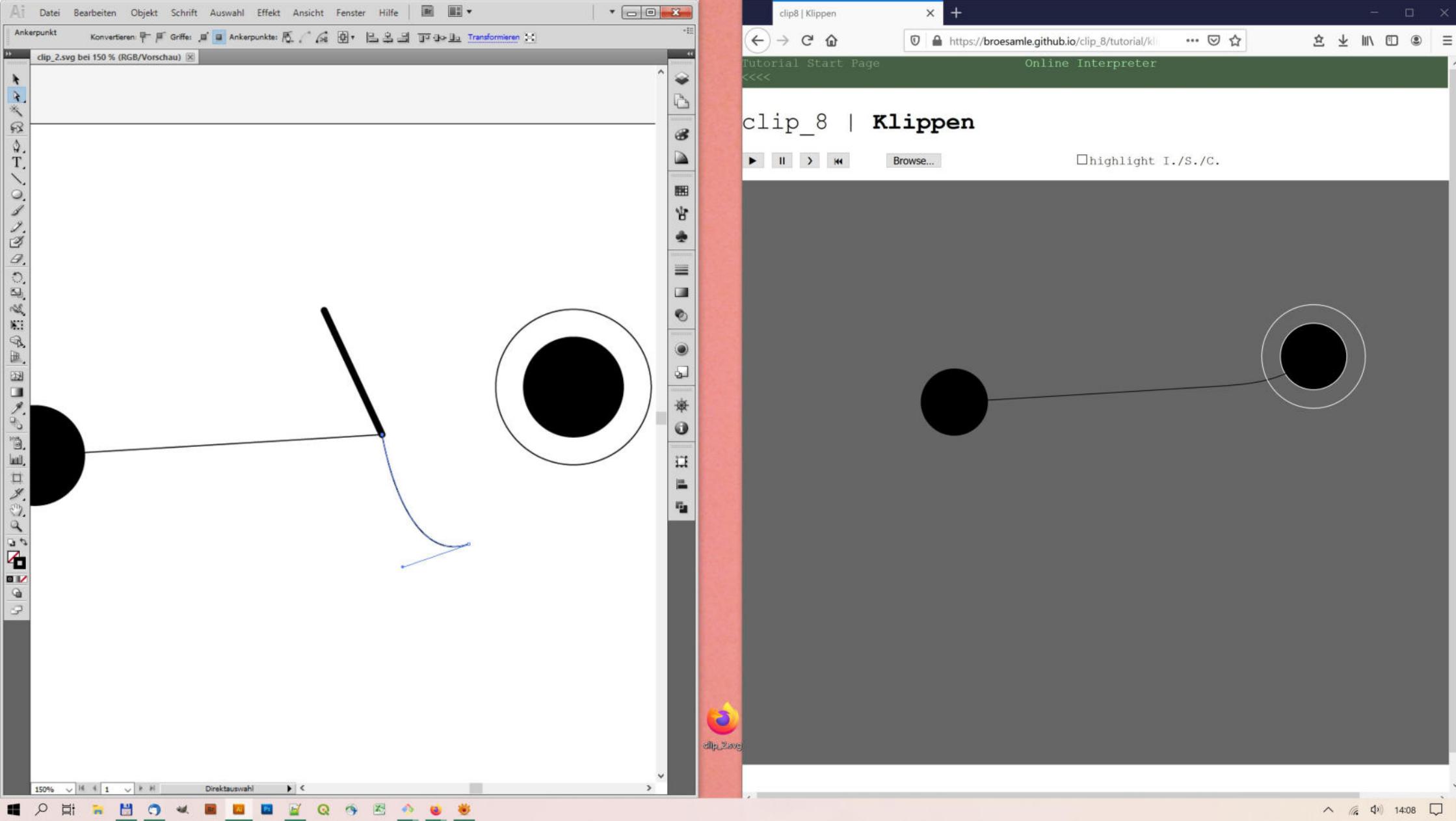


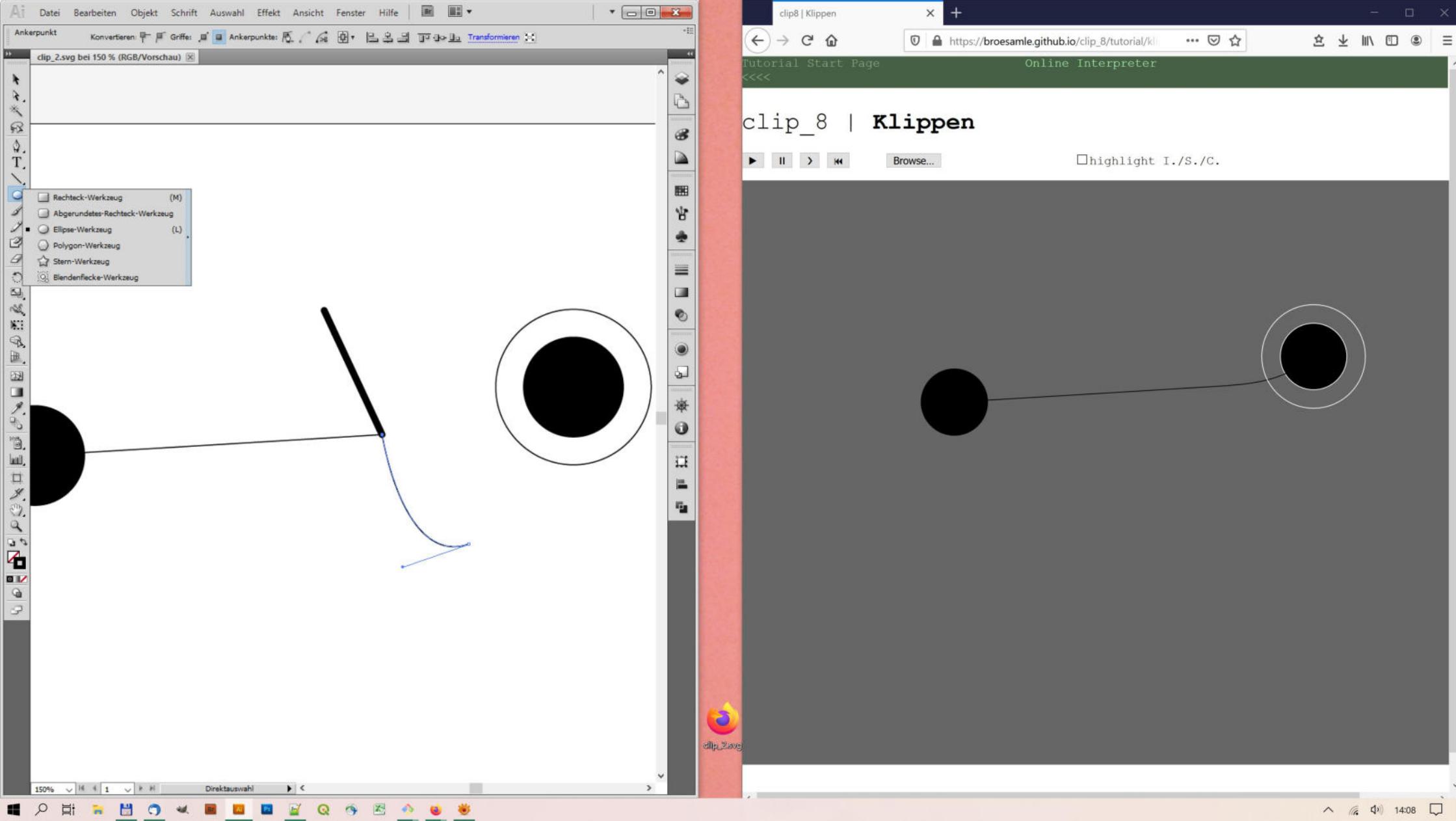


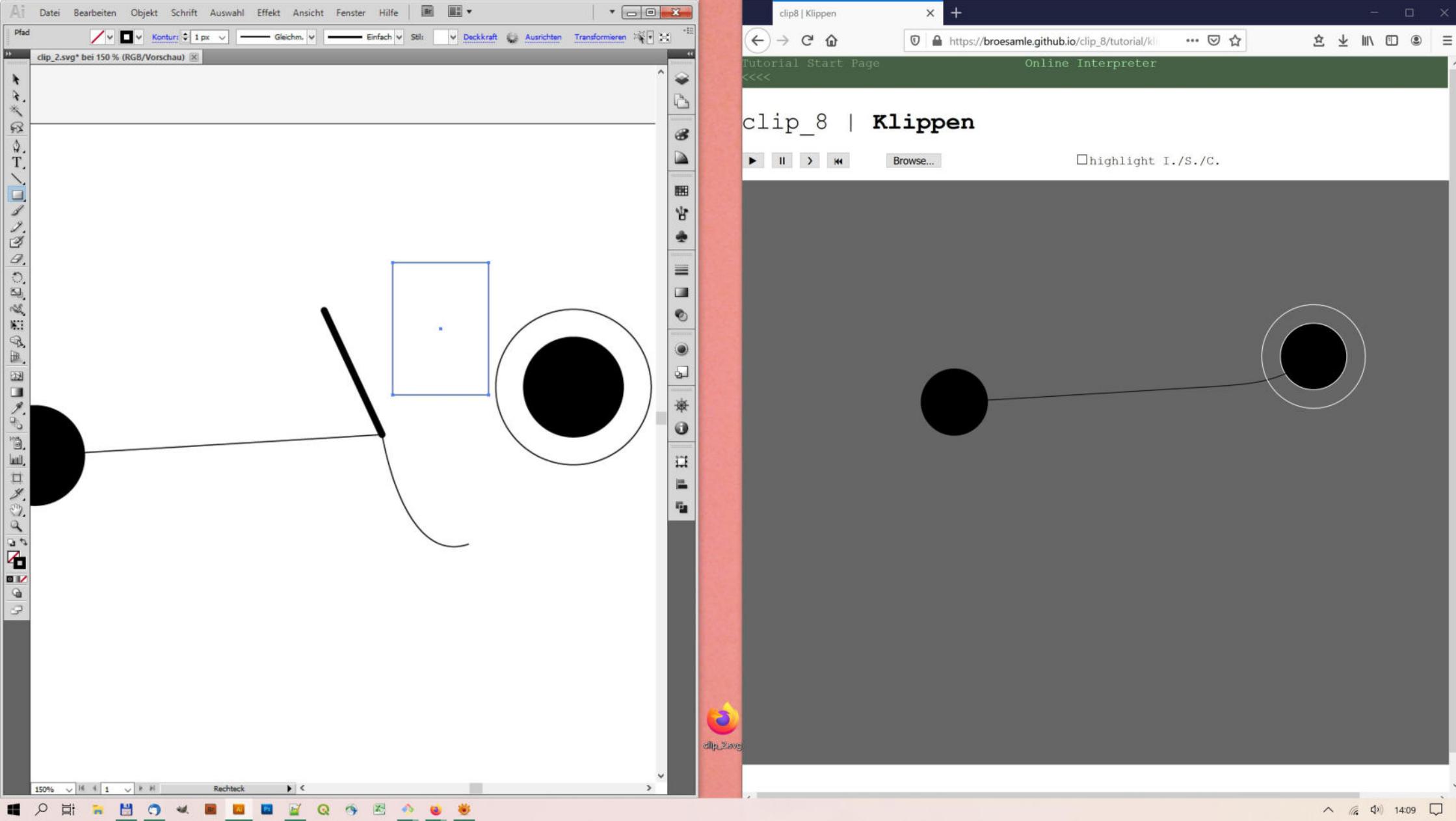












Ai Datei Bearbeiten Objekt Schrift Auswahl Effekt Ansicht Fenster Hilfe

Pfad Kontur 1 px Gleichm. Einfach Deckkraft Ausrichten Transformieren

clip\_2.svg\* bei 150 % (RGB/Vorschau)

Kontur Verlauf Transparenz

Stärke: 1 px Abschluss: Max.: 10 x Ecken: Kont. ausr.: Gestrichelte Linie Strich Lücke Strich Lücke Strich Lücke Pflepspitzen: Skalieren: 100% 100% Profil: Gleichm.

clip\_8 | Klippen

Tutorial Start Page Online Interpreter <<<

Browse... highlight I./S./C.

clip\_8 | Klippen

clip\_2.svg

150% Rechteck

Windows Taskbar: Search, File, Internet Explorer, Firefox, etc.

Firefox icon in the taskbar.

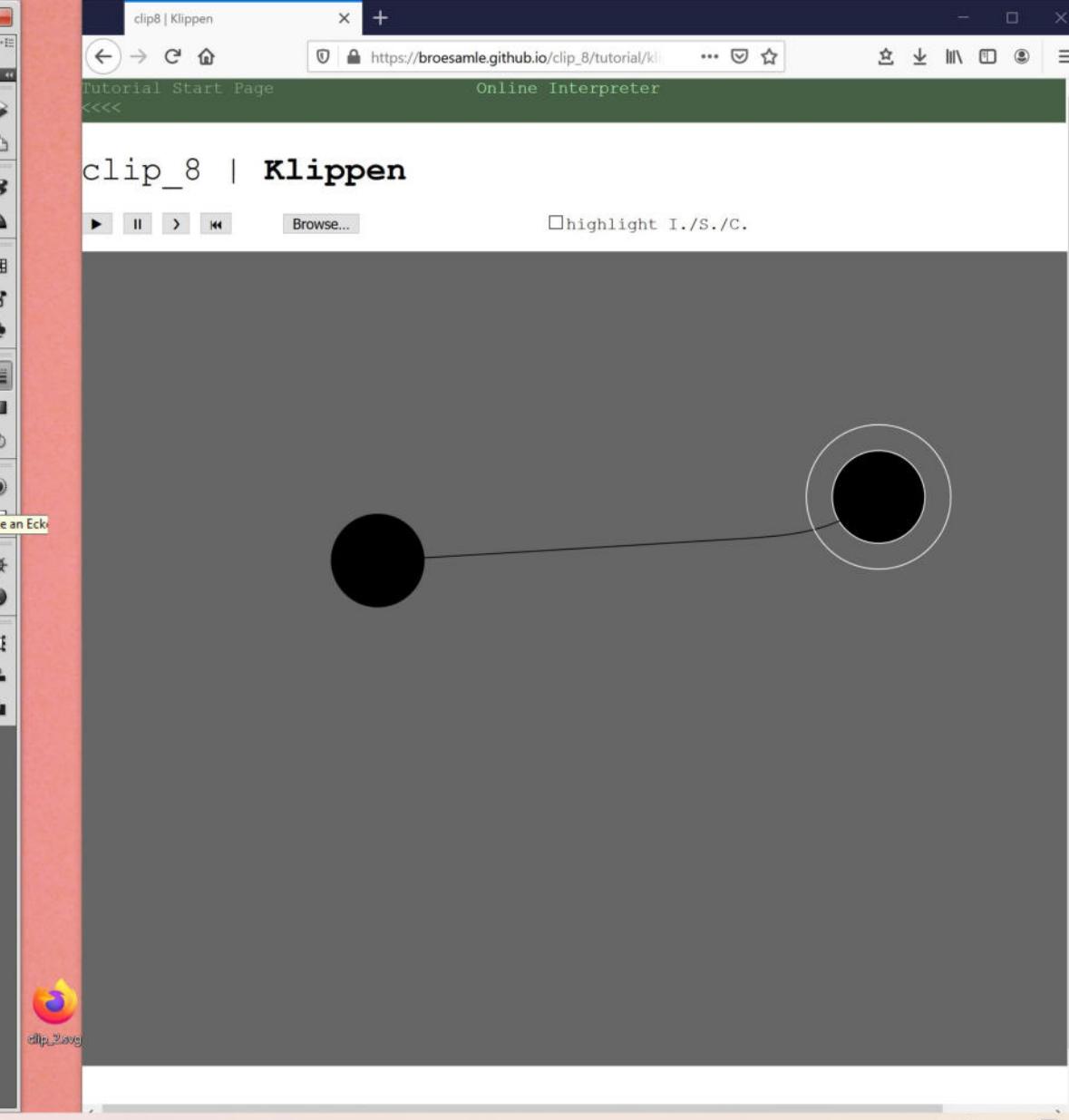
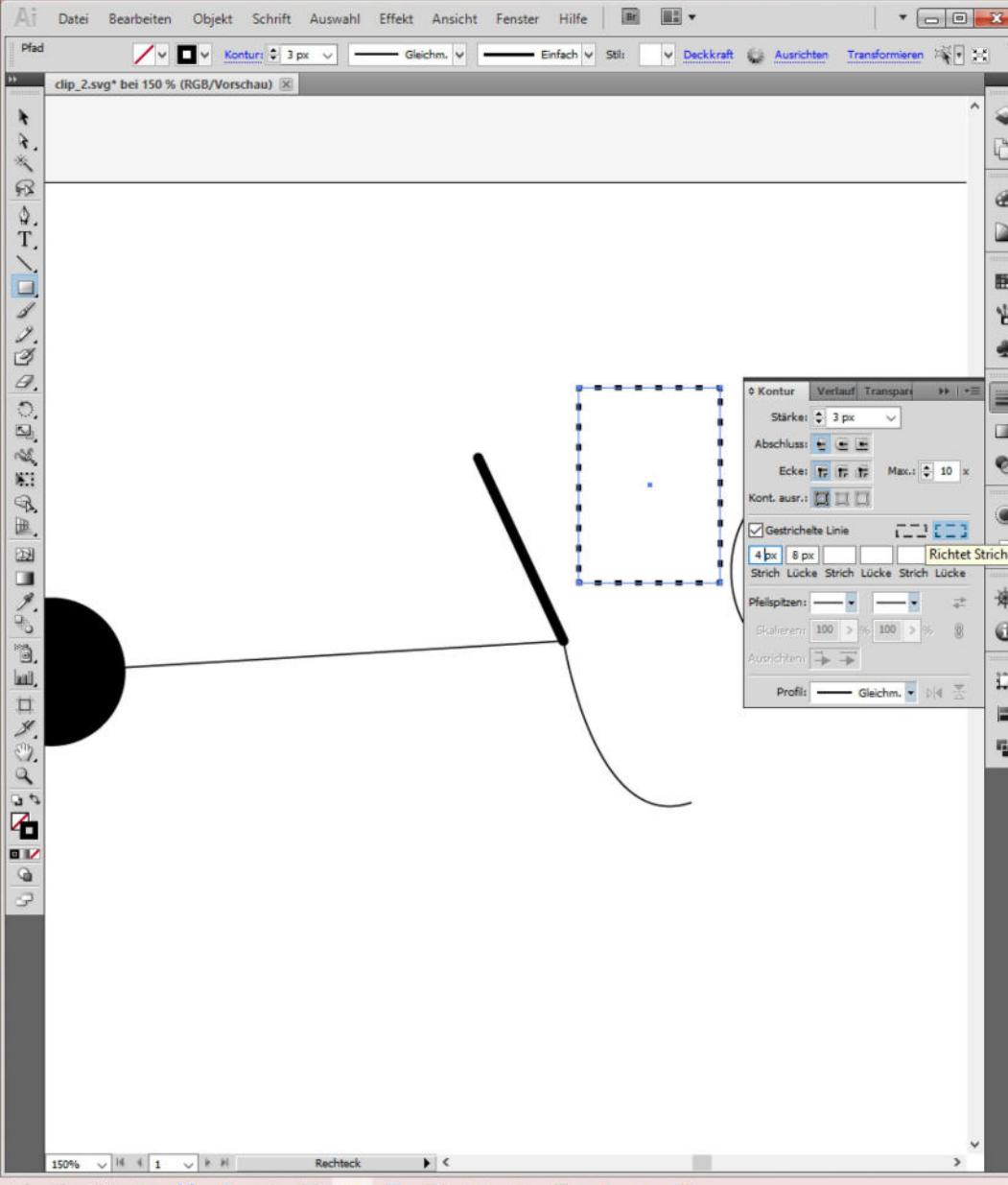
The image shows a dual-screen setup illustrating a clipping mask operation.

**Left Screen (Adobe Illustrator):**

- The application title bar reads "Ai Datei Bearbeiten Objekt Schrift Auswahl Effekt Ansicht Fenster Hilfe".
- The menu bar includes "Pfad" (Path), "Gleichm.", "Einfach", "Deckkraft", "Ausrichten", "Transformieren".
- The toolbar on the left contains various drawing tools like selection, shape creation, and text.
- The main workspace shows a black circle on the left connected by a line to a blue rectangle on the right. A callout line points from the rectangle to a floating style panel.
- The floating style panel has tabs for "Kontur" (Stroke), "Verlauf" (Gradient), and "Transparenz" (Transparency). The "Kontur" tab is active, showing settings for "Stärke" (Width) set to "1 px", "Abschluss" (End Cap) set to "2 Px", and "Ecken" (Corner) set to "3 Px". Other options include "Gestrichelte" (Dashed), "Spiral Lock", "Pfeilspitzen" (Arrowheads), "Skalieren" (Scale), and "Ausrichten" (Orientation).
- The status bar at the bottom shows "clip\_2.svg\* bei 150 % (RGB/Vorschau)" and "Rechteck".

**Right Screen (Browser):**

- The browser title bar reads "clip8 | Klippen".
- The address bar shows the URL "https://broesamle.github.io/clip\_8/tutorial/klippen".
- The page content area displays the text "clip\_8 | Klippen".
- A control bar below the content includes buttons for "Browse...", "highlight I./S./C.", and navigation arrows.
- The main content area shows a large black circle on the left connected by a line to a larger white circle with a black outline on the right.
- The Firefox logo is visible in the bottom left corner of the browser window.



AI Datei Bearbeiten Objekt Schrift Auswahl Effekt Ansicht Fenster Hilfe

Pfad Kontur: 3 px Gleichm. Einfach Deckkraft Ausrichten Transformieren

clip\_2.svg\* bei 150 % (RGB/Vorschau)

Direktauswahl-Werkzeug (A)

Kontur Verlauf Transparenz

Stärke: 3 px Abschluss: Max.: 10 x

Ecken: Max.: 10 x Kont. ausri.: Gekrümmte Linie

Gestrichelte Linie: 4 px 8 px Strich Lücke Strich Lücke Strich Lücke

Pfeilspitzen: Skalieren: 100 > 100 >

Ausrichten: Profil: Gleichm.

Rechteck

clip8 | Klippen

Tutorial Start Page Online Interpreter

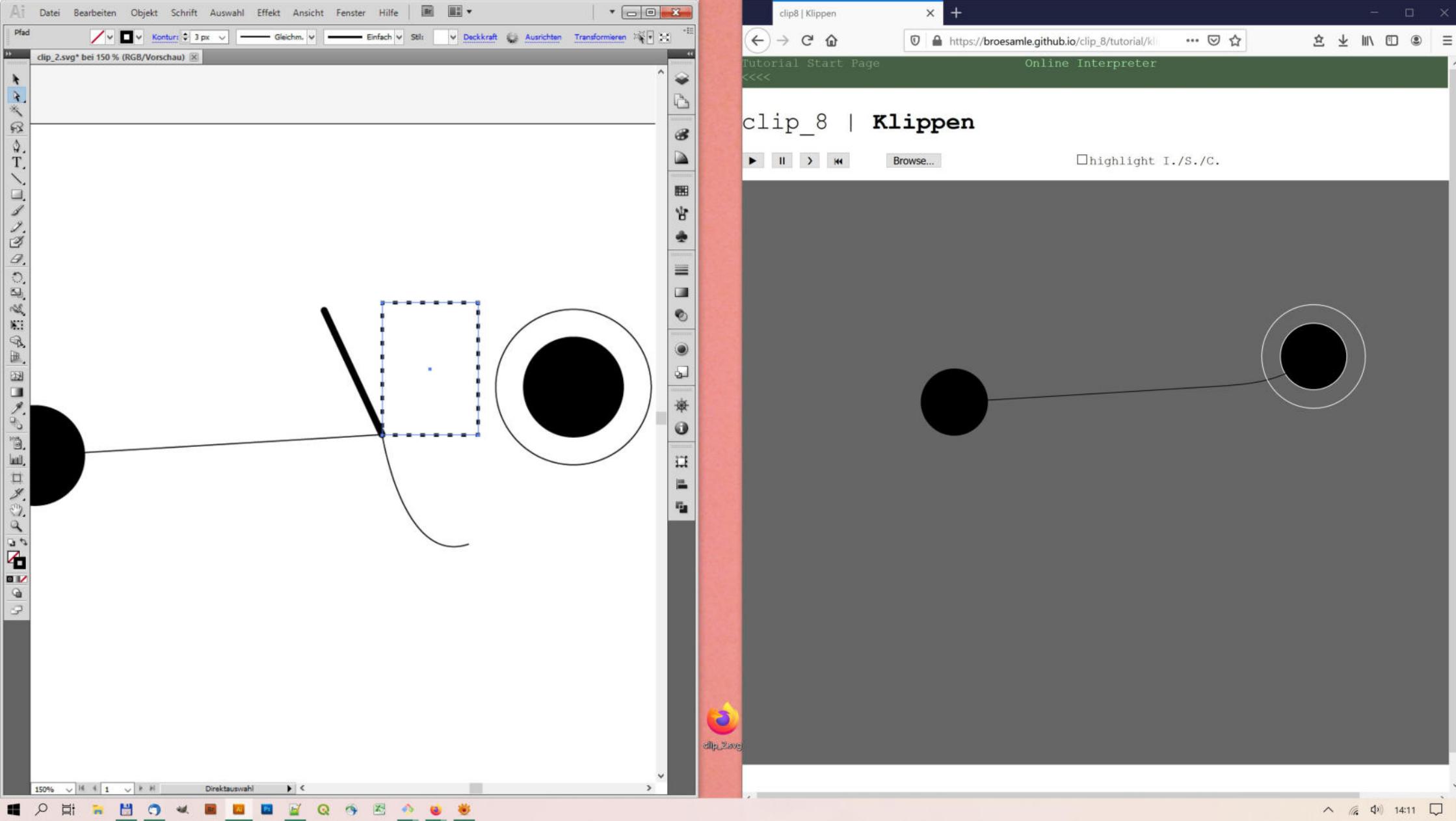
clip\_8 | Klippen

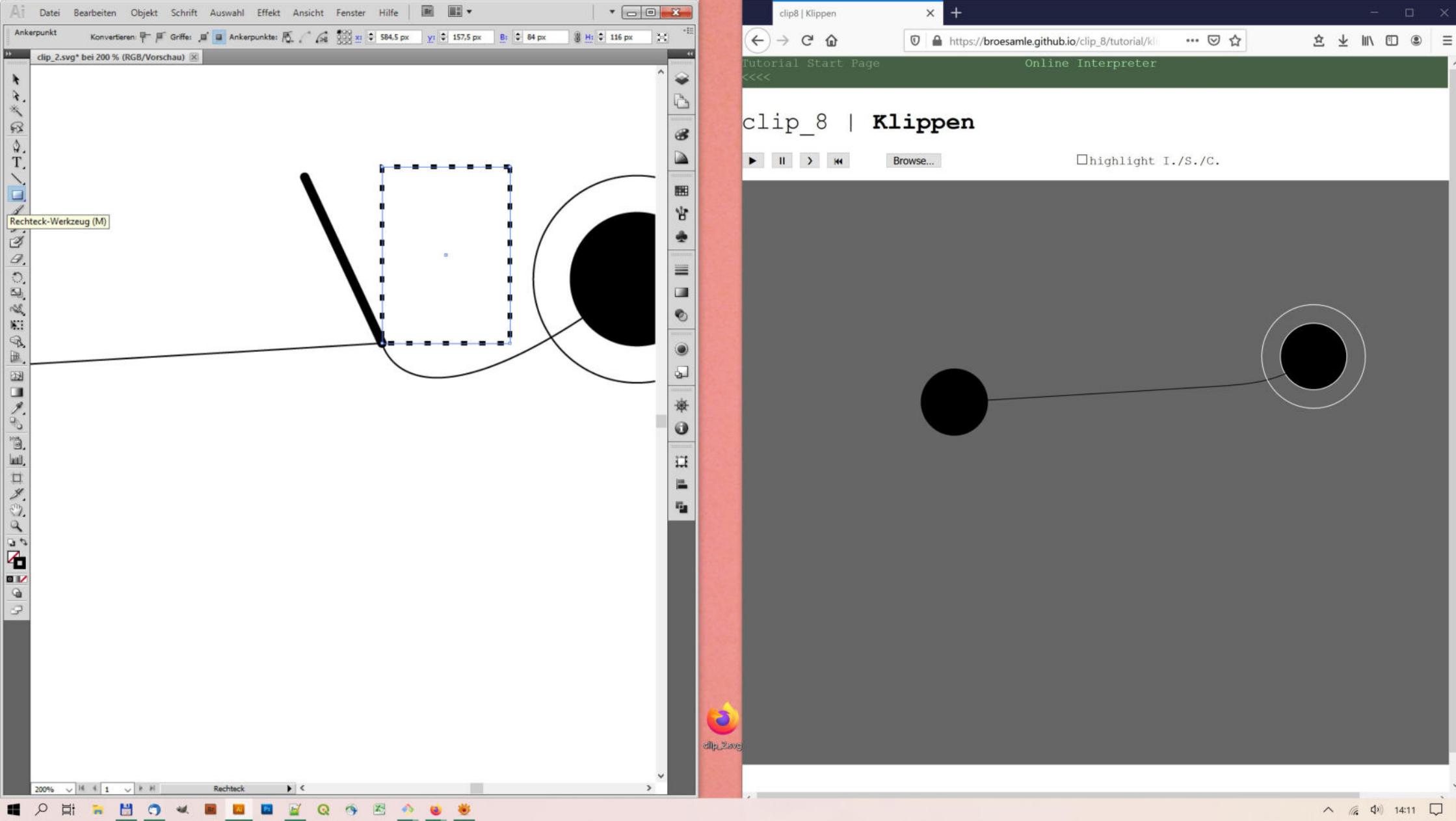
Browse... highlight I./S./C.

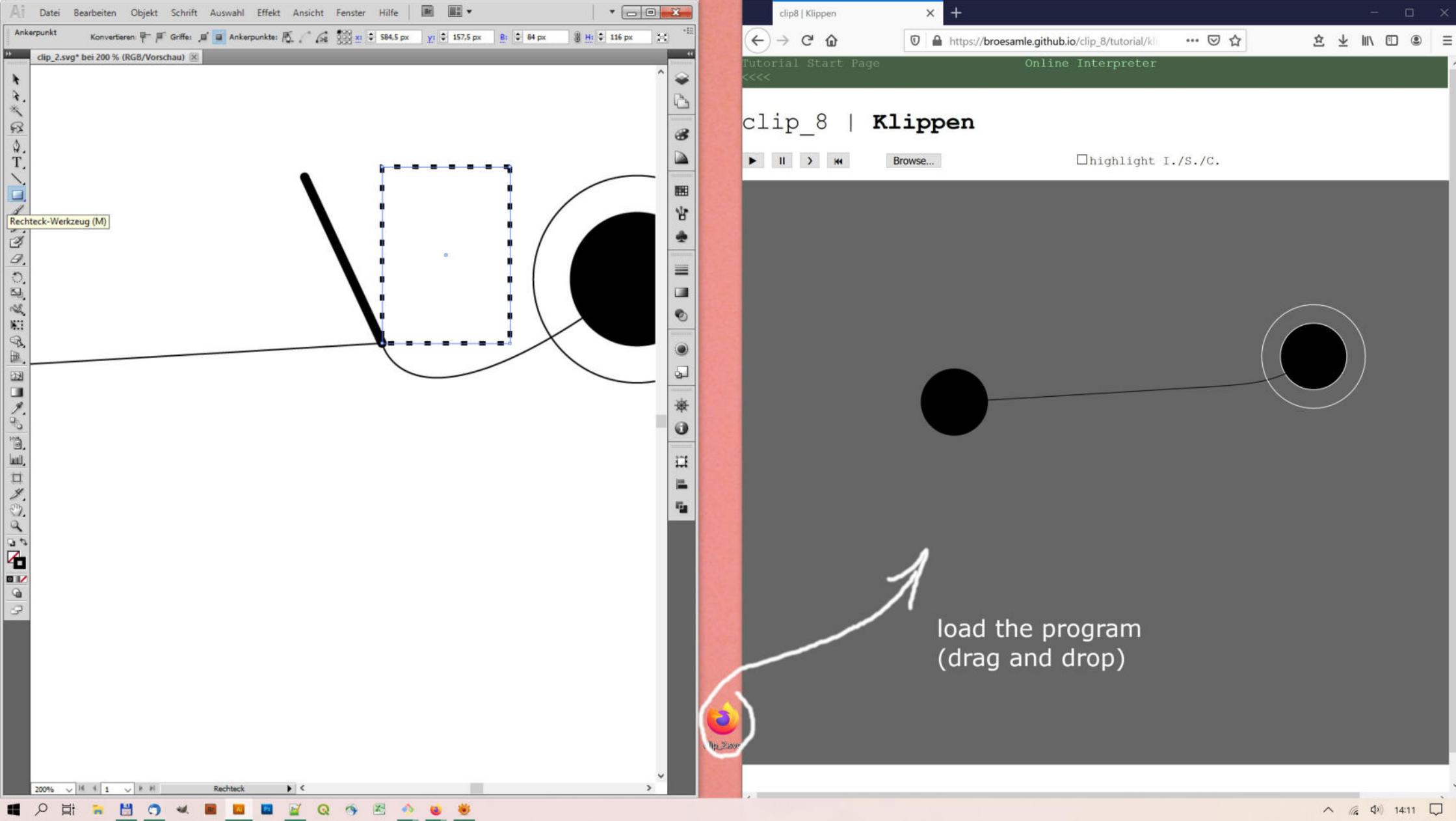
clip\_2.svg

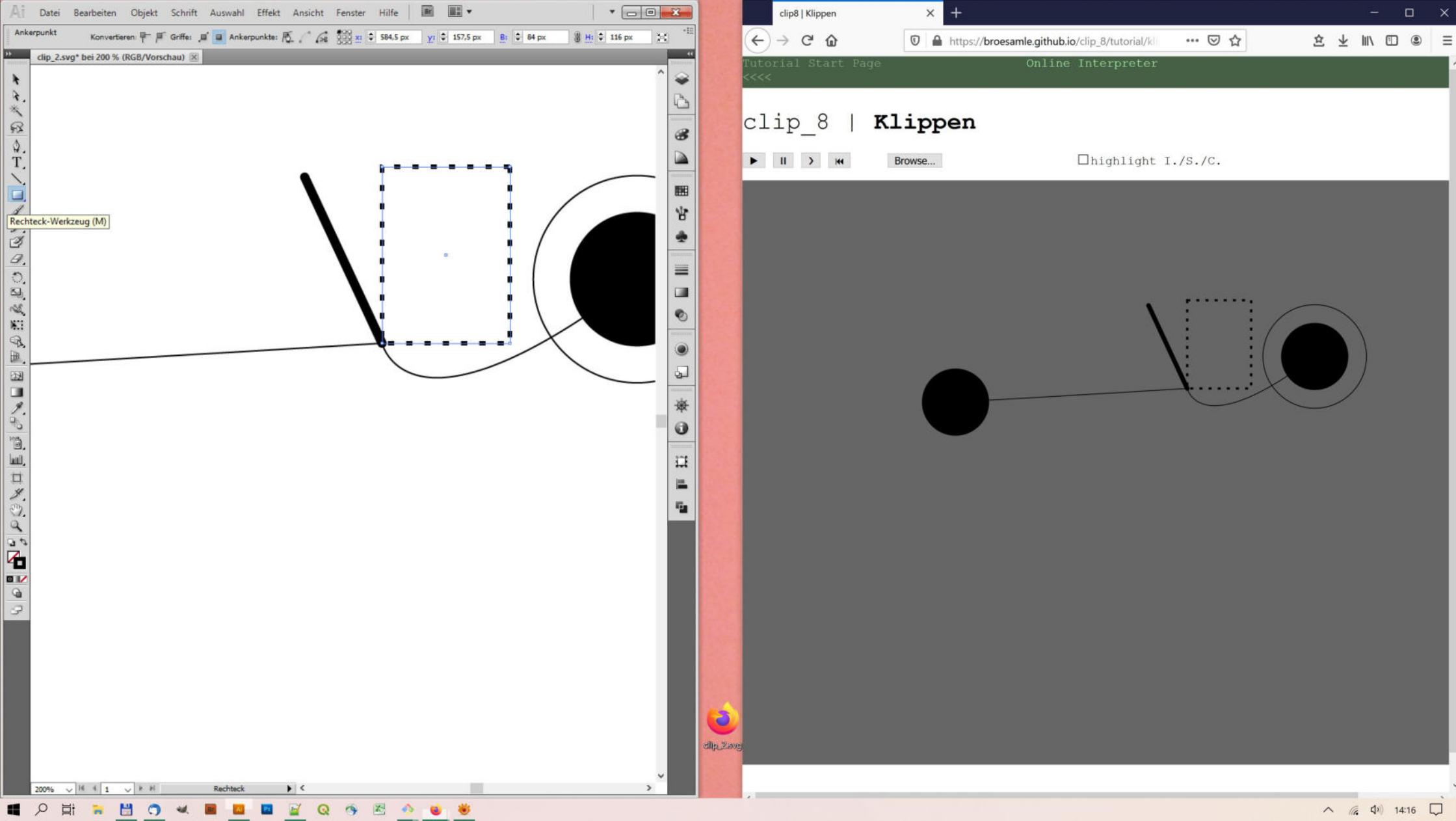
150% 14:11

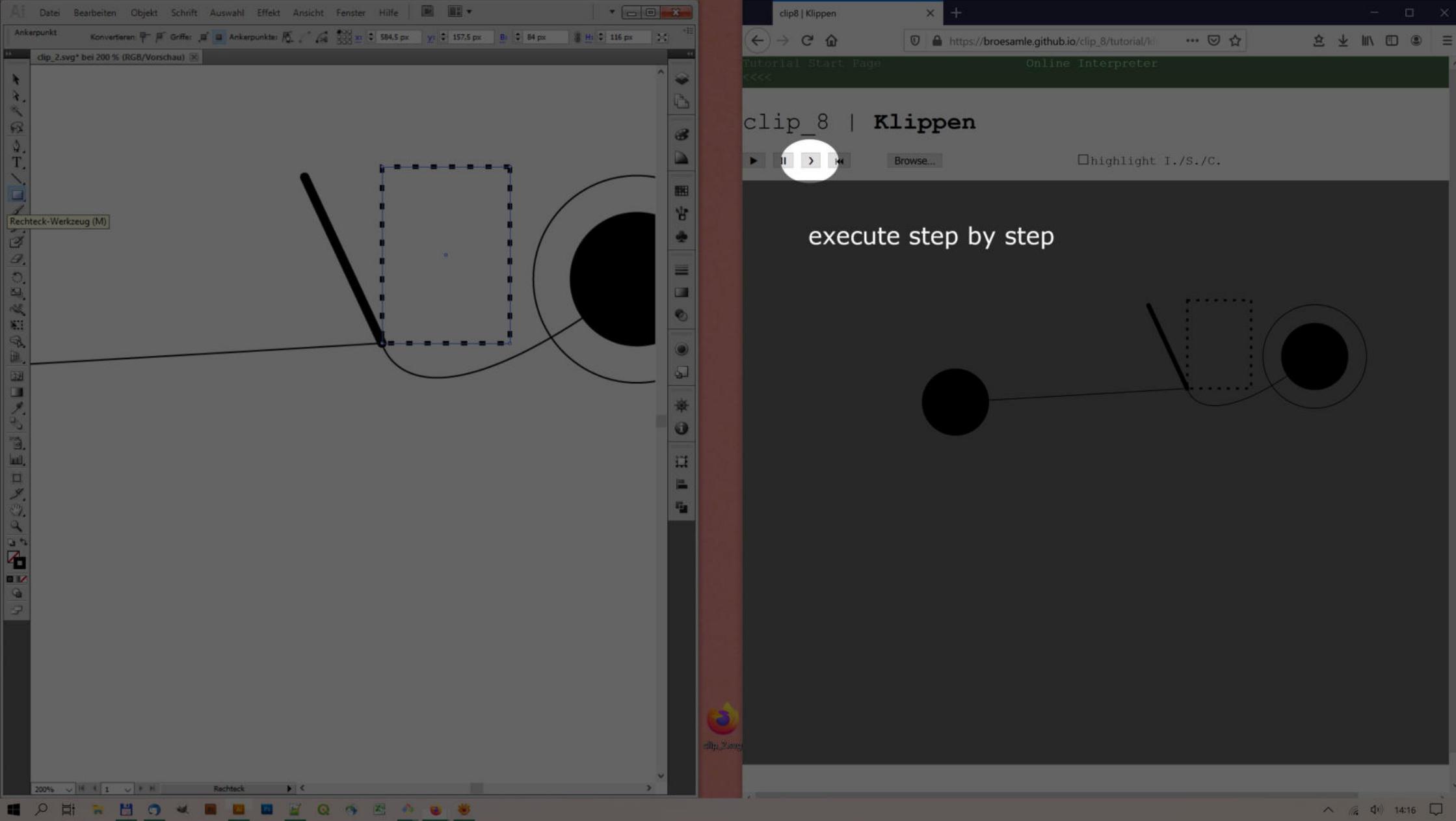
The screenshot illustrates a workflow for creating a curved line segment with a specific end cap style. In the left application, the user is defining the stroke properties for a new path. The right application shows the final result, where a curved line connects two circular shapes, demonstrating the effect of the chosen settings.

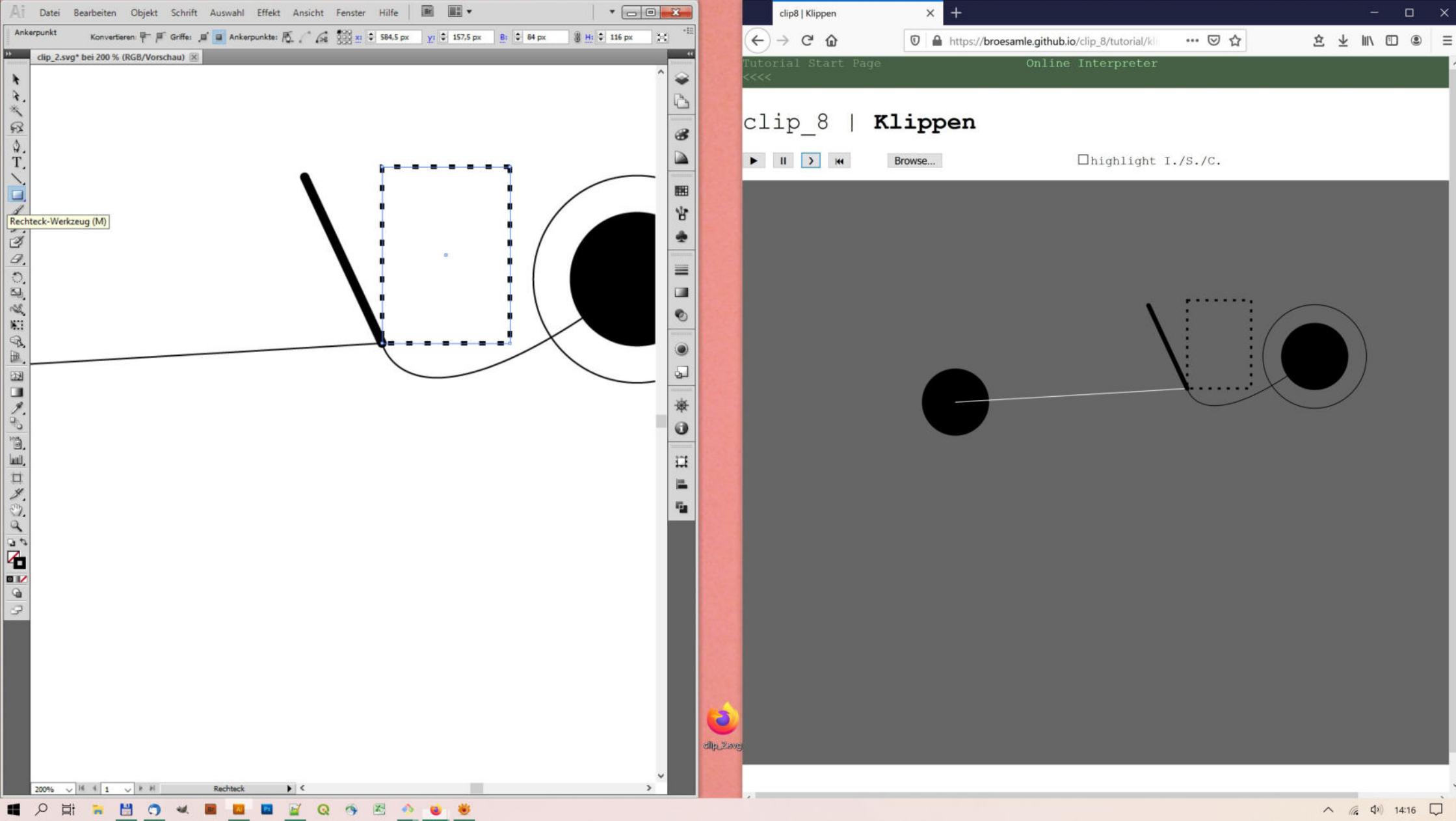


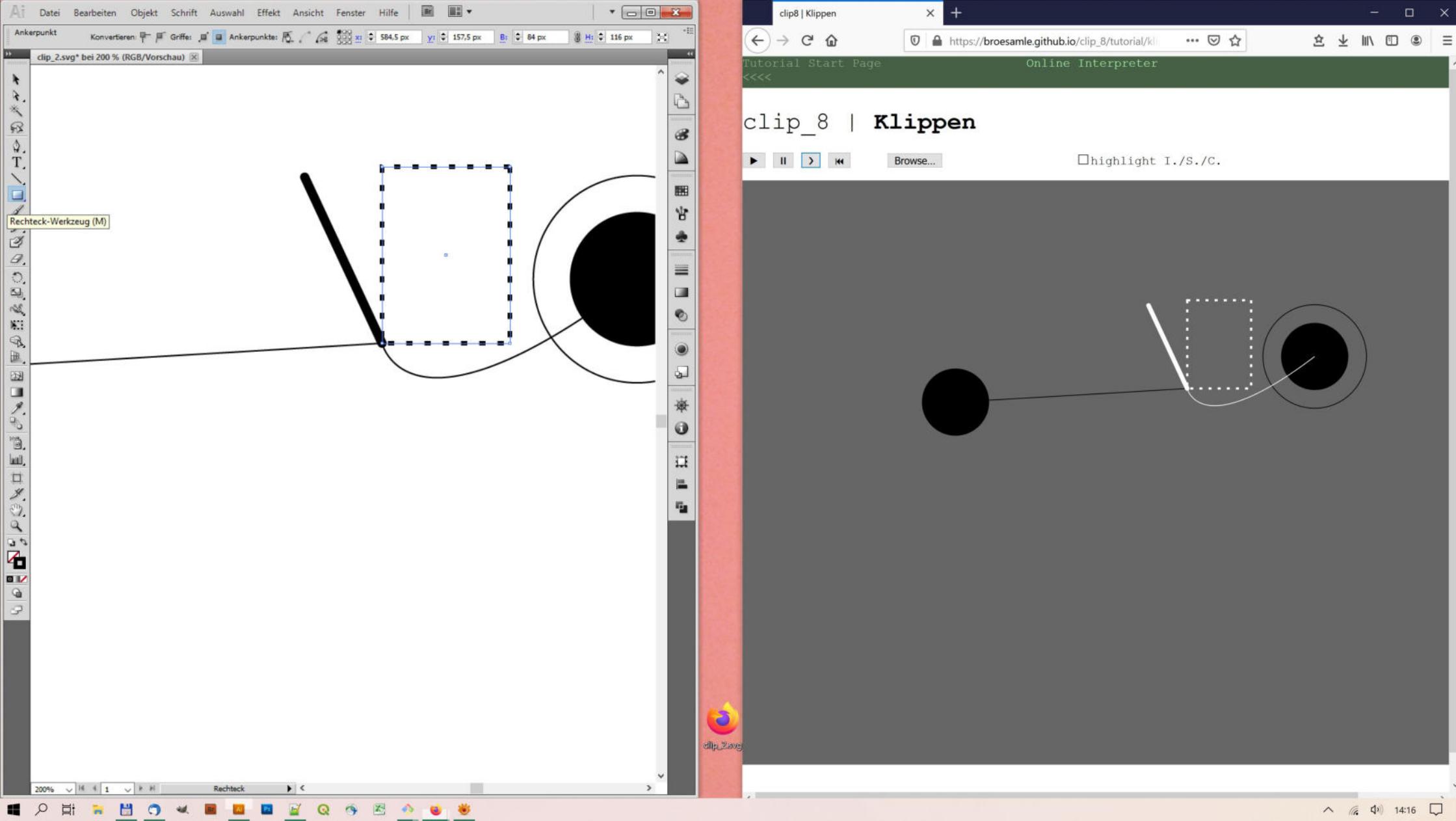


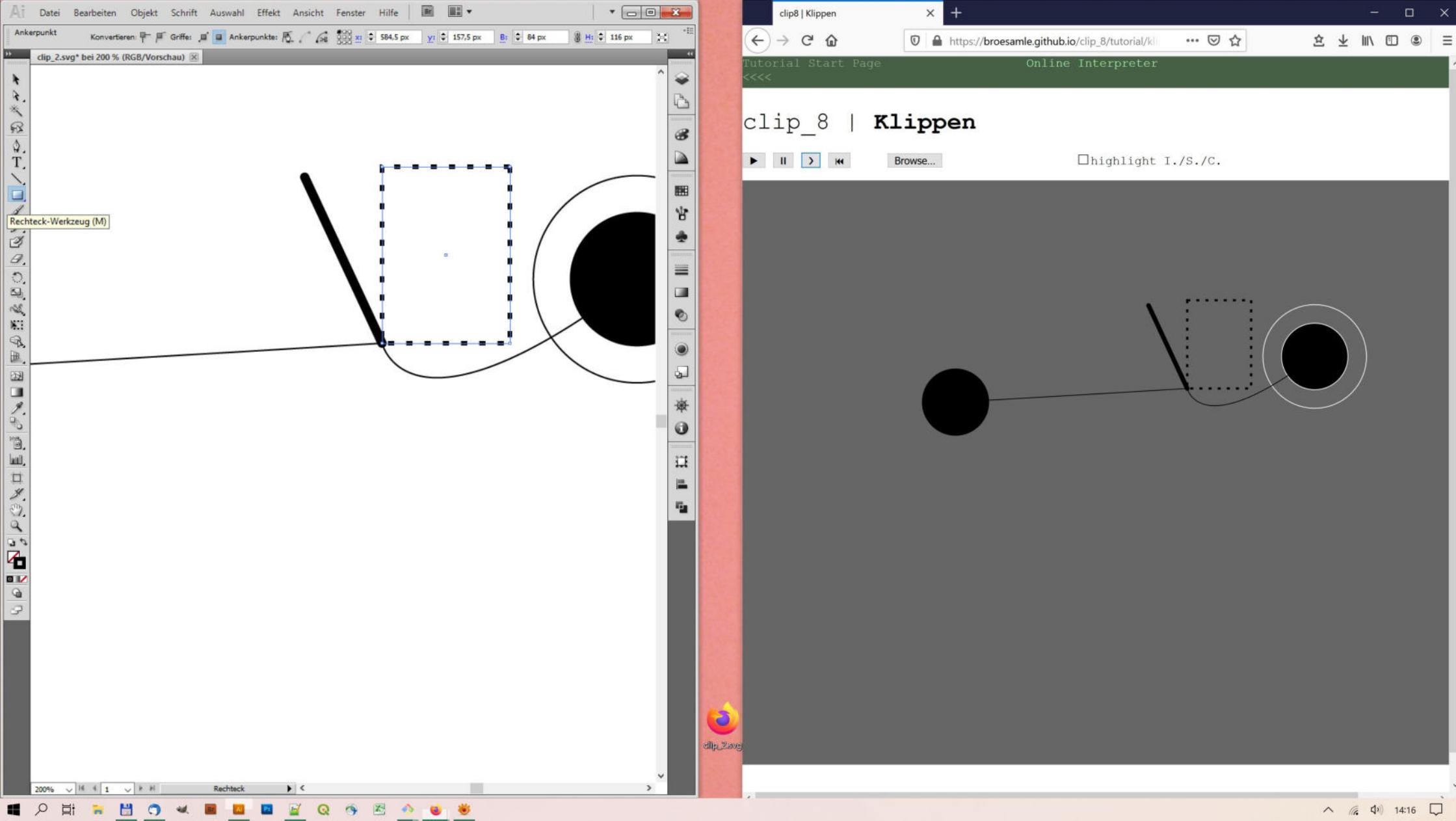












Ai Datei Bearbeiten Objekt Schrift Auswahl Effekt Ansicht Fenster Hilfe

Ankerpunkt Konvertieren Griffen Ankerpunkte: clip\_2.svg bei 200% (RGB/Kontur aufteilen)

Vorschau Strg+Y

- Überdruckenvorschau Alt+Umschalttaste+Strg+Y
- Pixelvorschau Alt+Strg+Y
- Proof einrichten
- Farbproof
- Einzoomen Alt+Umschalttaste+Strg+\*
- Auszoomen Strg+-
- Zeichenfläche in Fenster einpassen Strg+0
- Alle in Fenster einpassen Alt+Strg+0
- Originalgröße Strg+1
- Ecken ausblenden Strg+H
- Zeichenfläche ausblenden Umschalttaste+Strg+H
- Druckaufteilung einblenden
- Slices einblenden
- Slices fixieren
- Vorlage ausblenden Umschalttaste+Strg+W
- Lineale
- Begrenzungsrahmen ausblenden Umschalttaste+Strg+B
- Transparenzraster einblenden Umschalttaste+Strg+D
- Textverkettungen ausblenden Umschalttaste+Strg+Y
- Verlaufsoptimierer ausblenden Alt+Strg+G
- Interaktive Mallücken einblenden
- Hilfslinien
- Intelligente Hilfslinien Strg+U
- Perspektiveneraster
- Raster einblenden Strg++
- Am Raster ausrichten Umschalttaste+Strg++
- An Punkt ausrichten Alt+Strg++
- Neue Ansicht...
- Ansicht bearbeiten...

116 px

clip8 | Klippen

Tutorial Start Page Online Interpreter

clip\_8 | Klippen

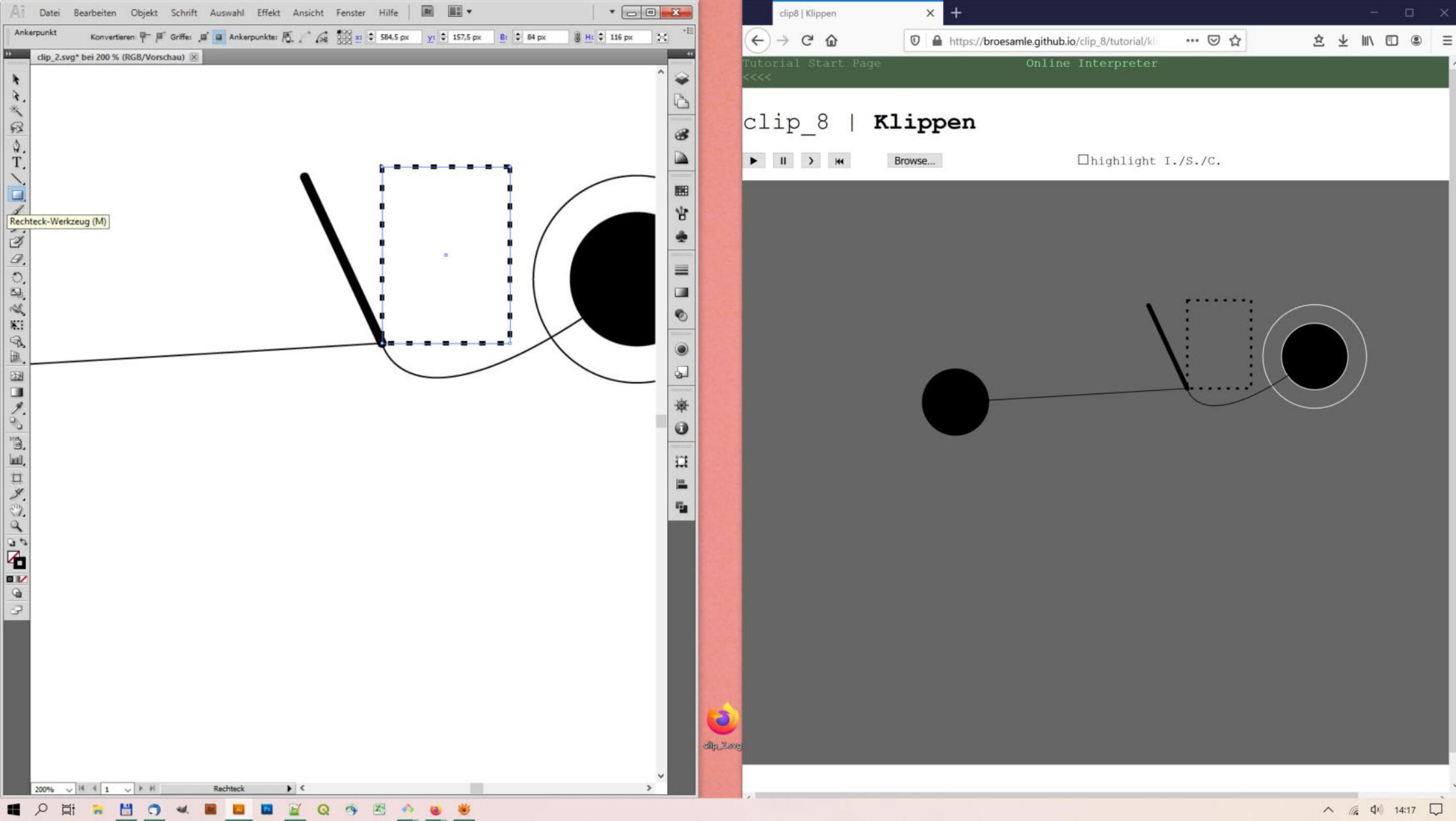
highlight I./S./C.

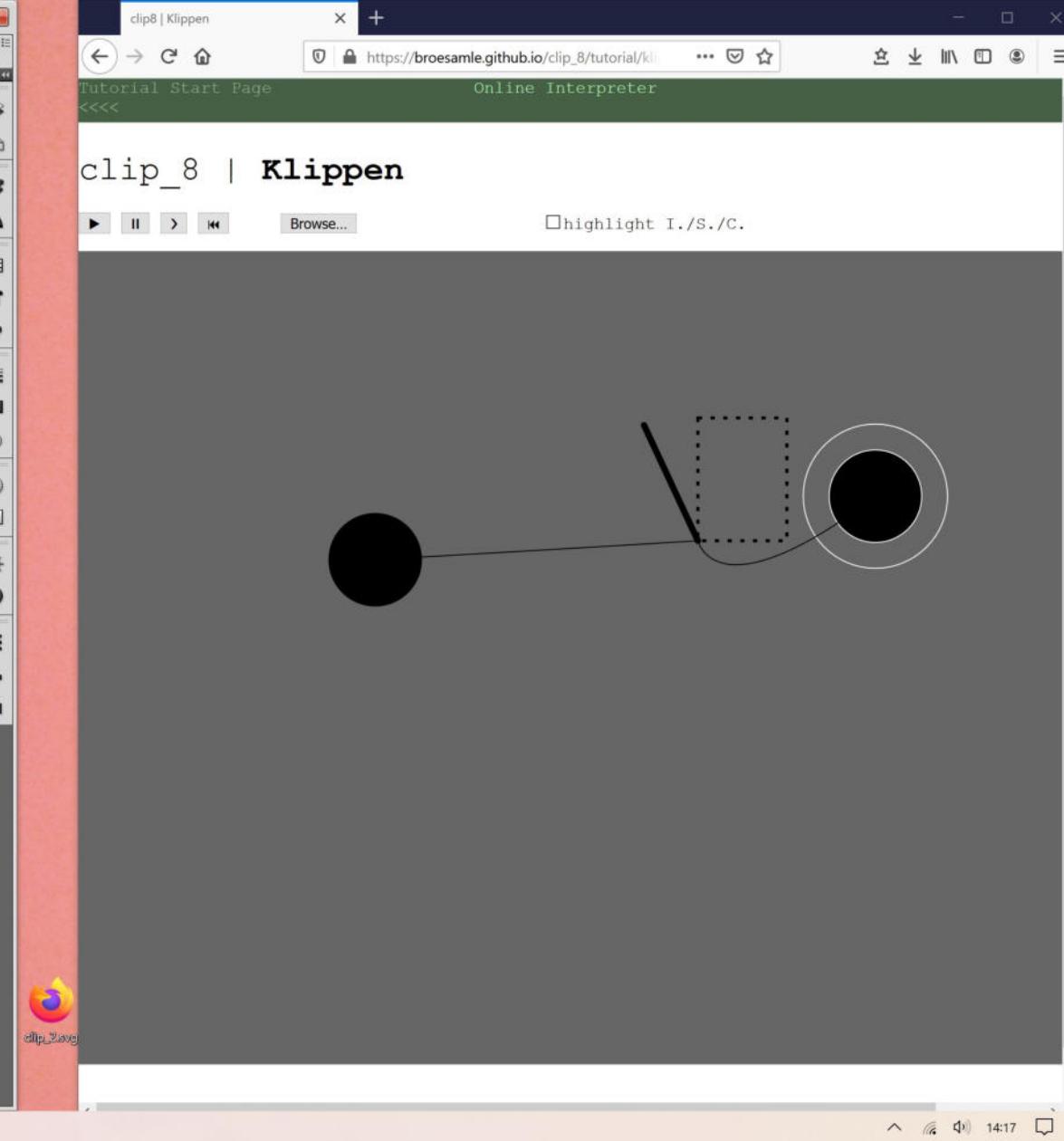
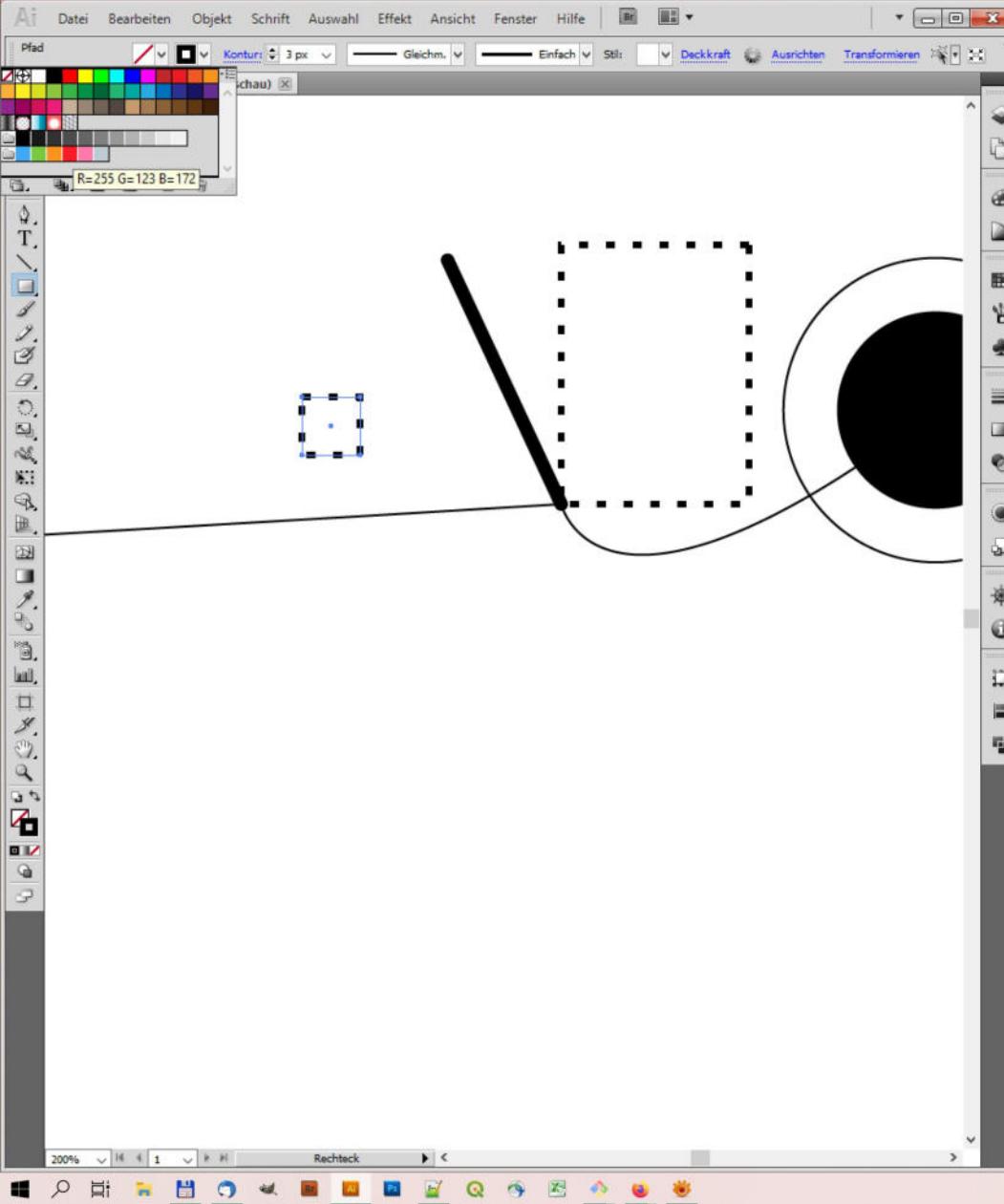
clip\_8.svg

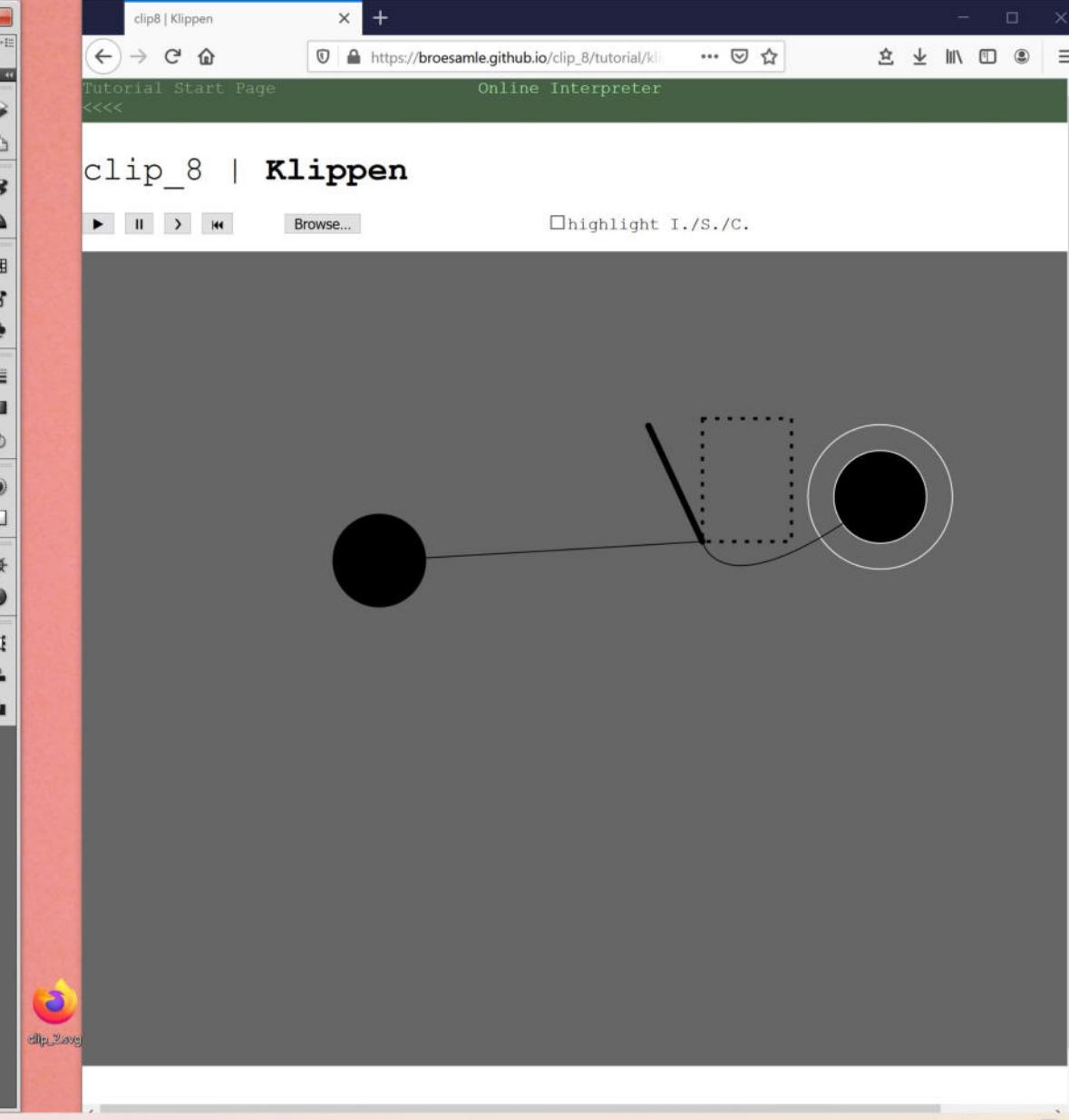
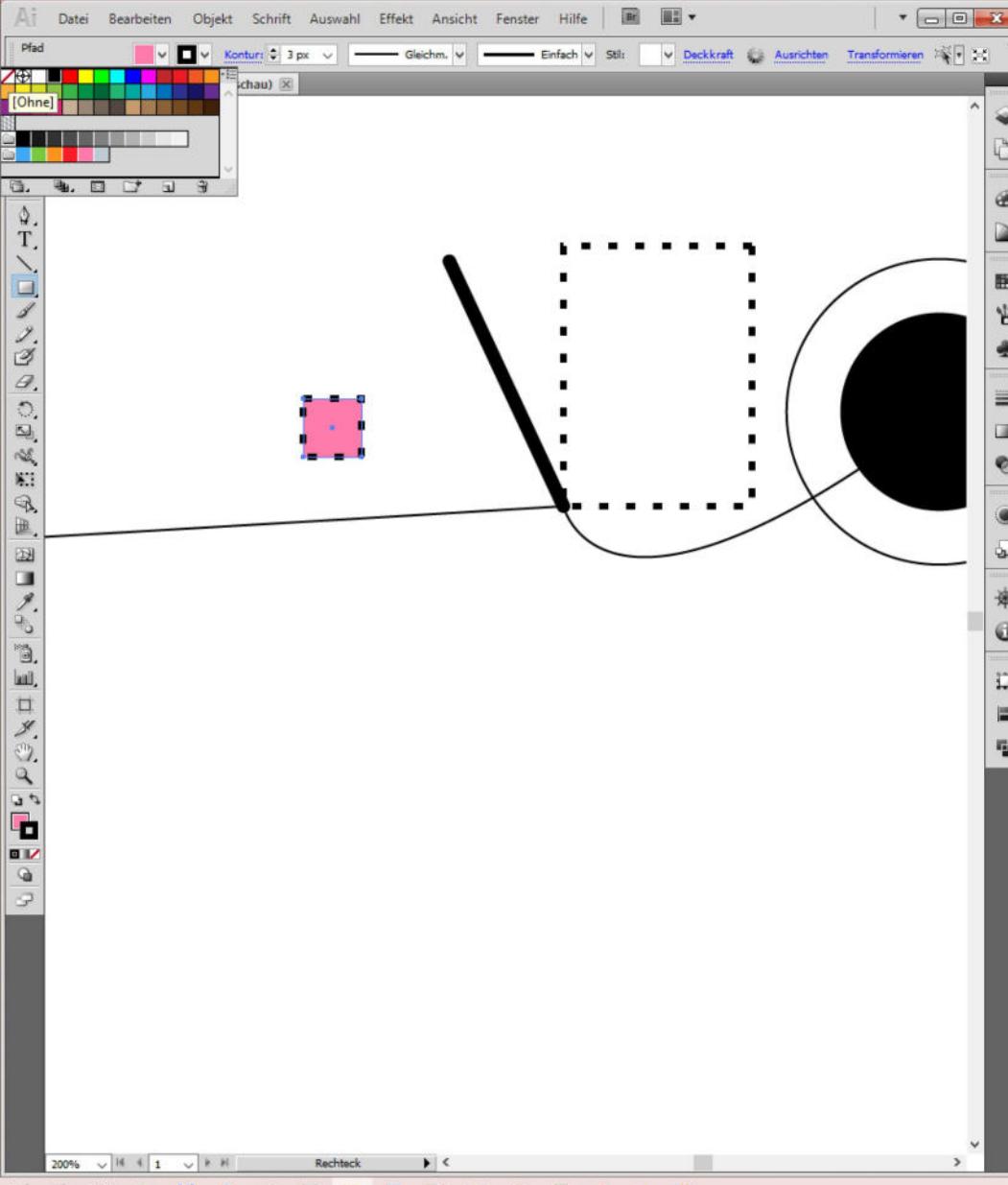
200% Rechteck

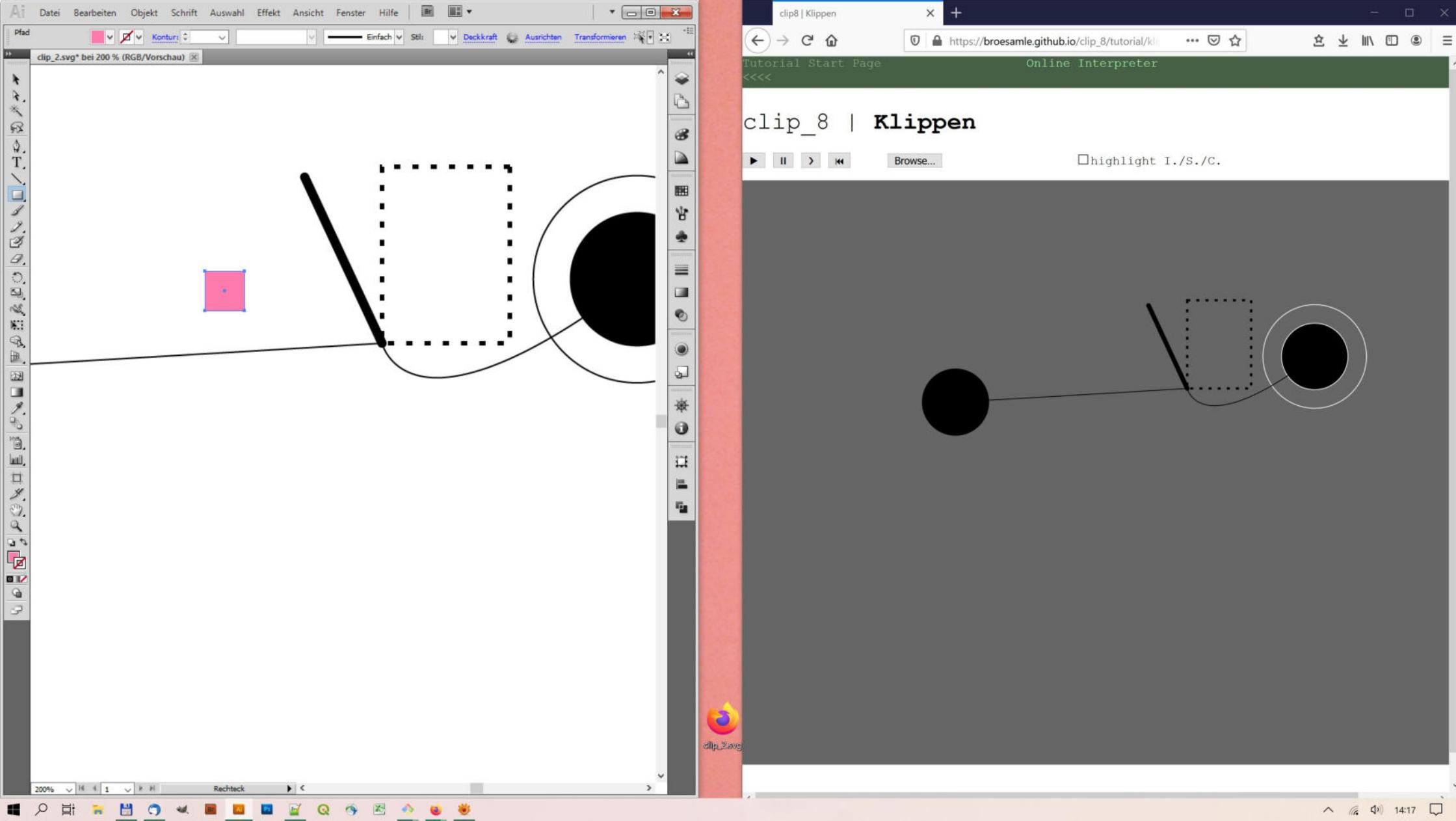
14:17

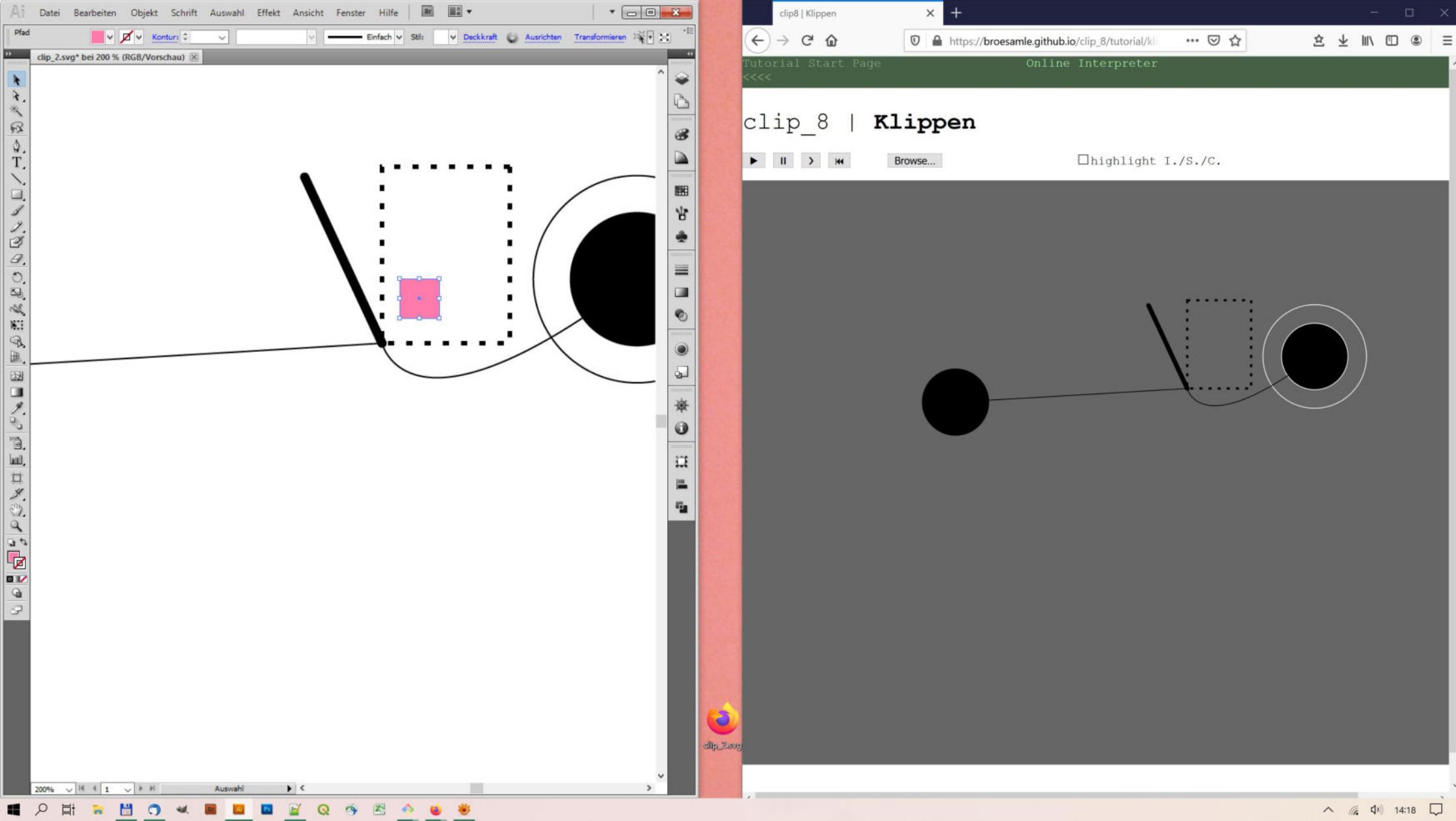
The screenshot shows the Adobe Illustrator interface. The 'View' menu is open, displaying various options like 'Vorschau' (Preview) and 'An Punkt ausrichten' (Align to Point), which is highlighted with a blue selection bar. The main workspace shows a black circle being clipped by a dashed rectangular path. The right side of the screen displays a browser window titled 'clip8 | Klippen' with the URL 'https://broesamle.github.io/clip\_8/tutorial/klippen'. The browser content includes a navigation bar with arrows, a 'Browse...' button, and a checkbox for 'highlight I./S./C.'.

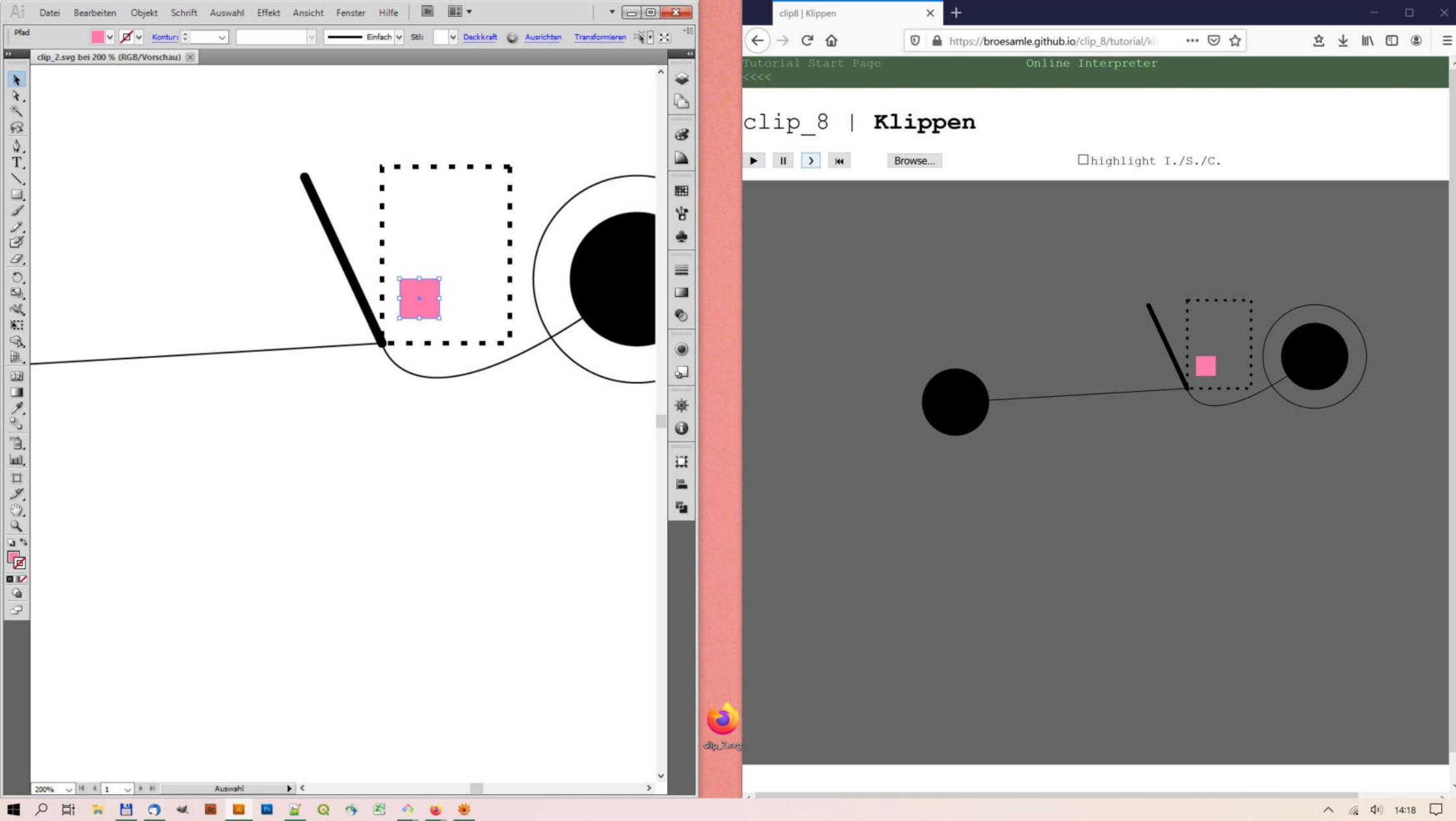


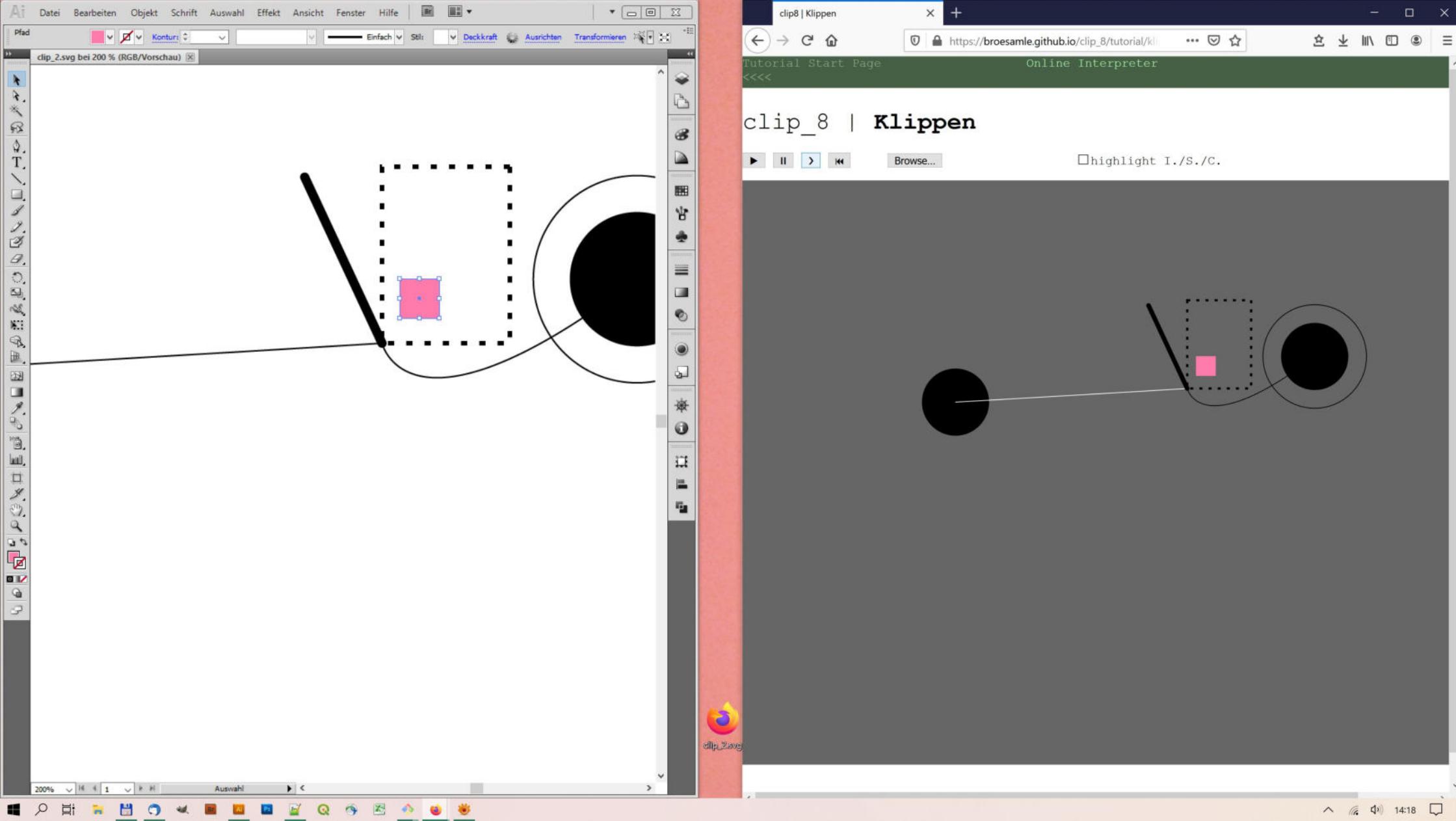


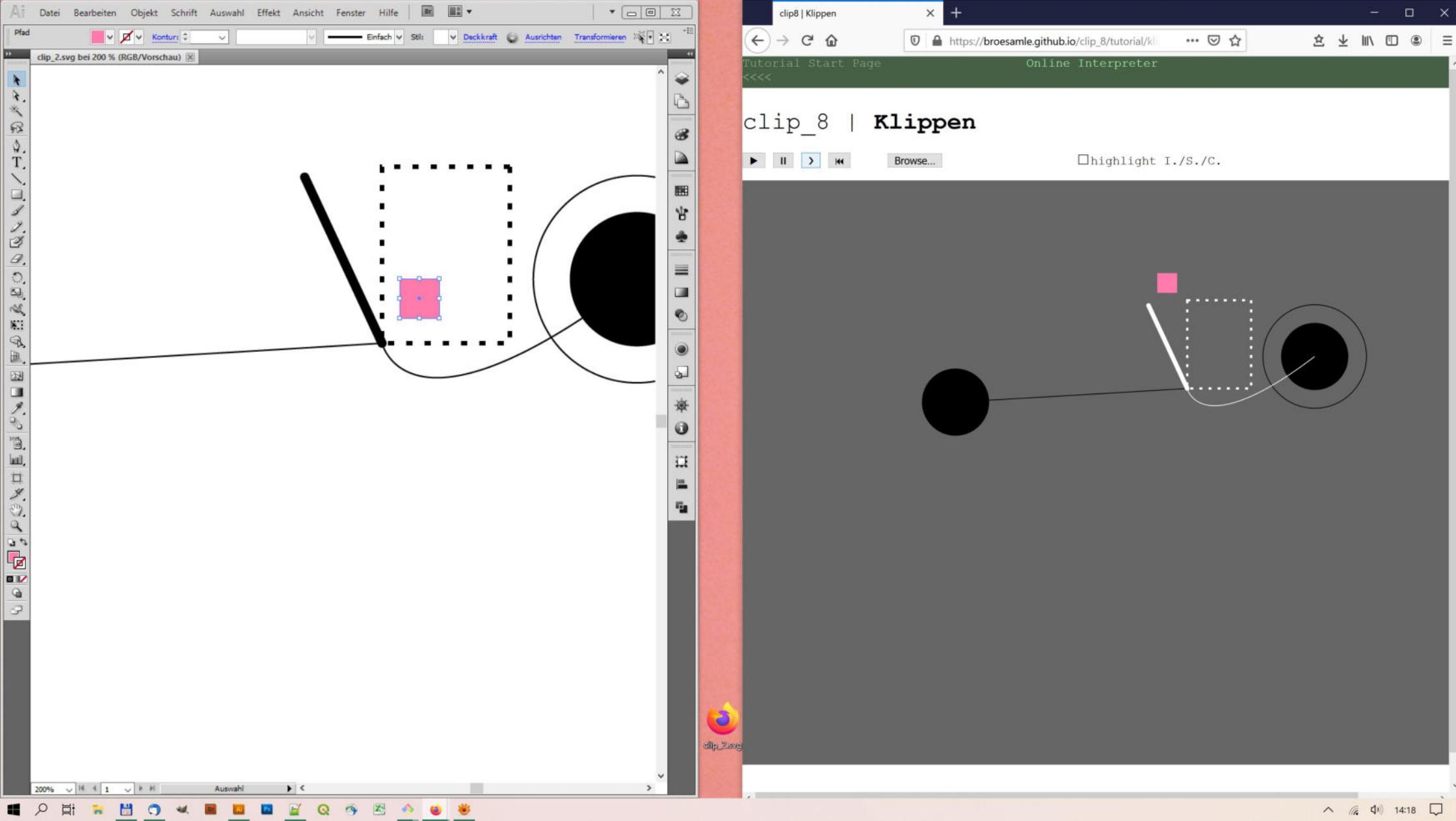


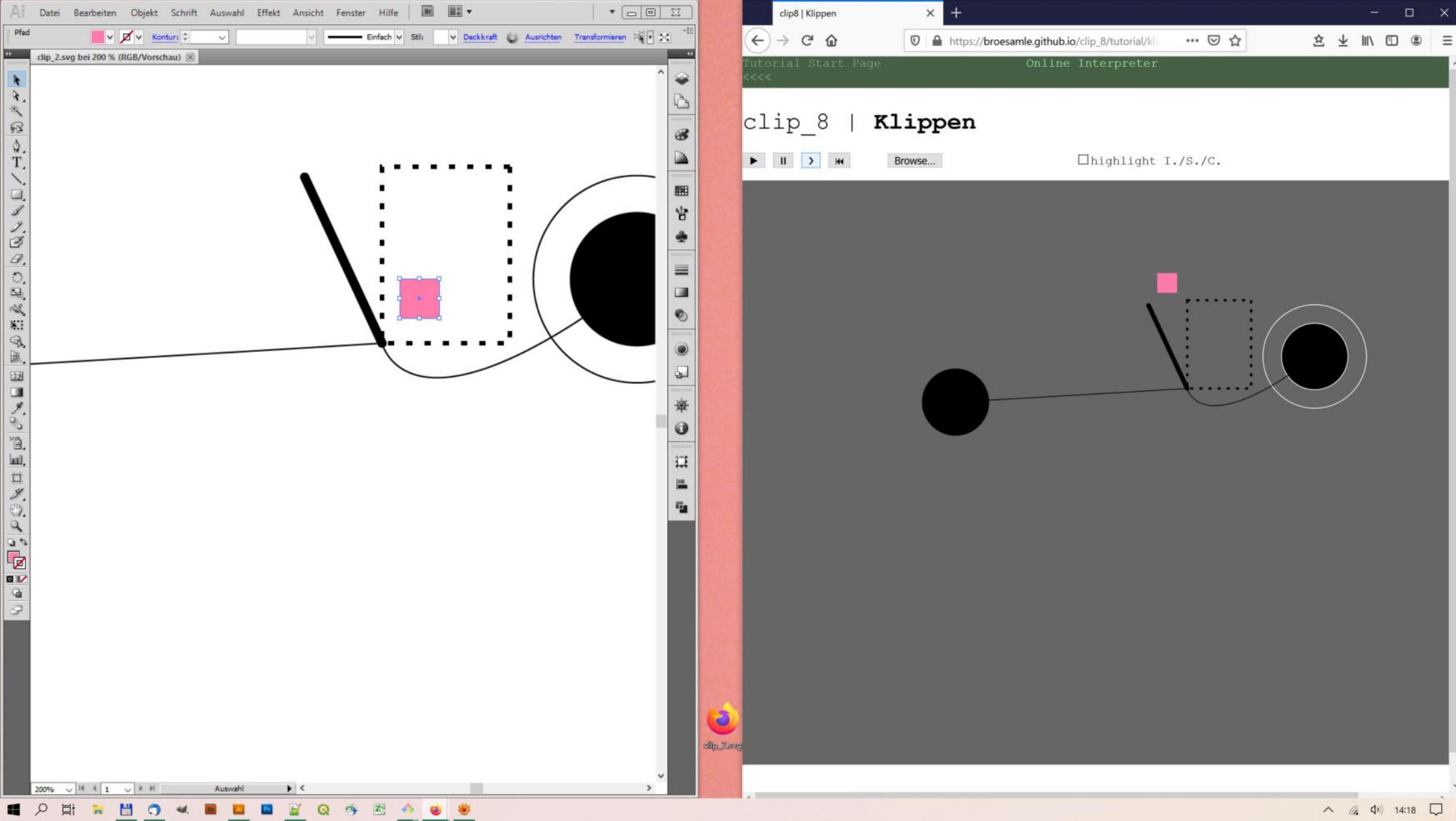


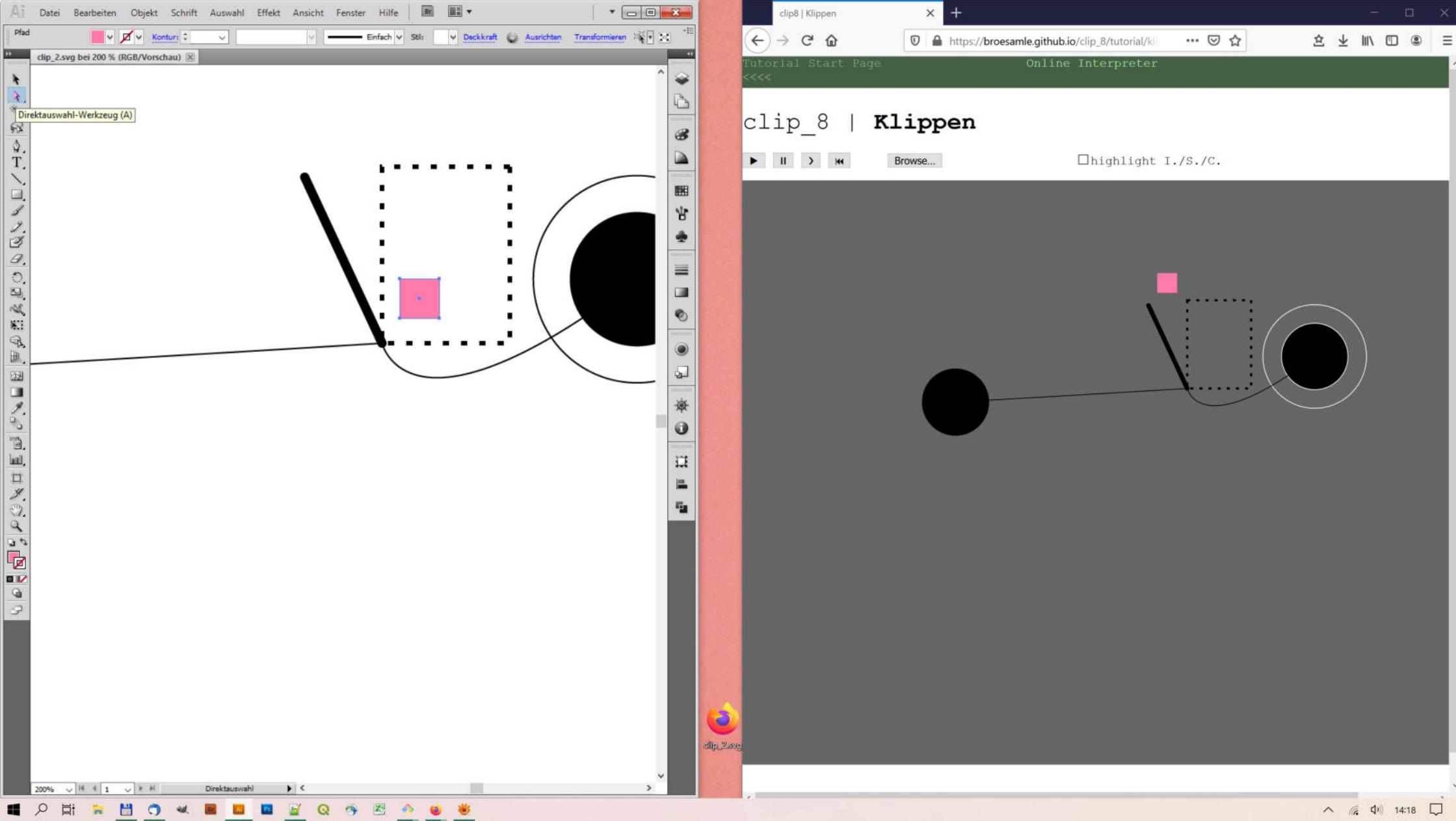


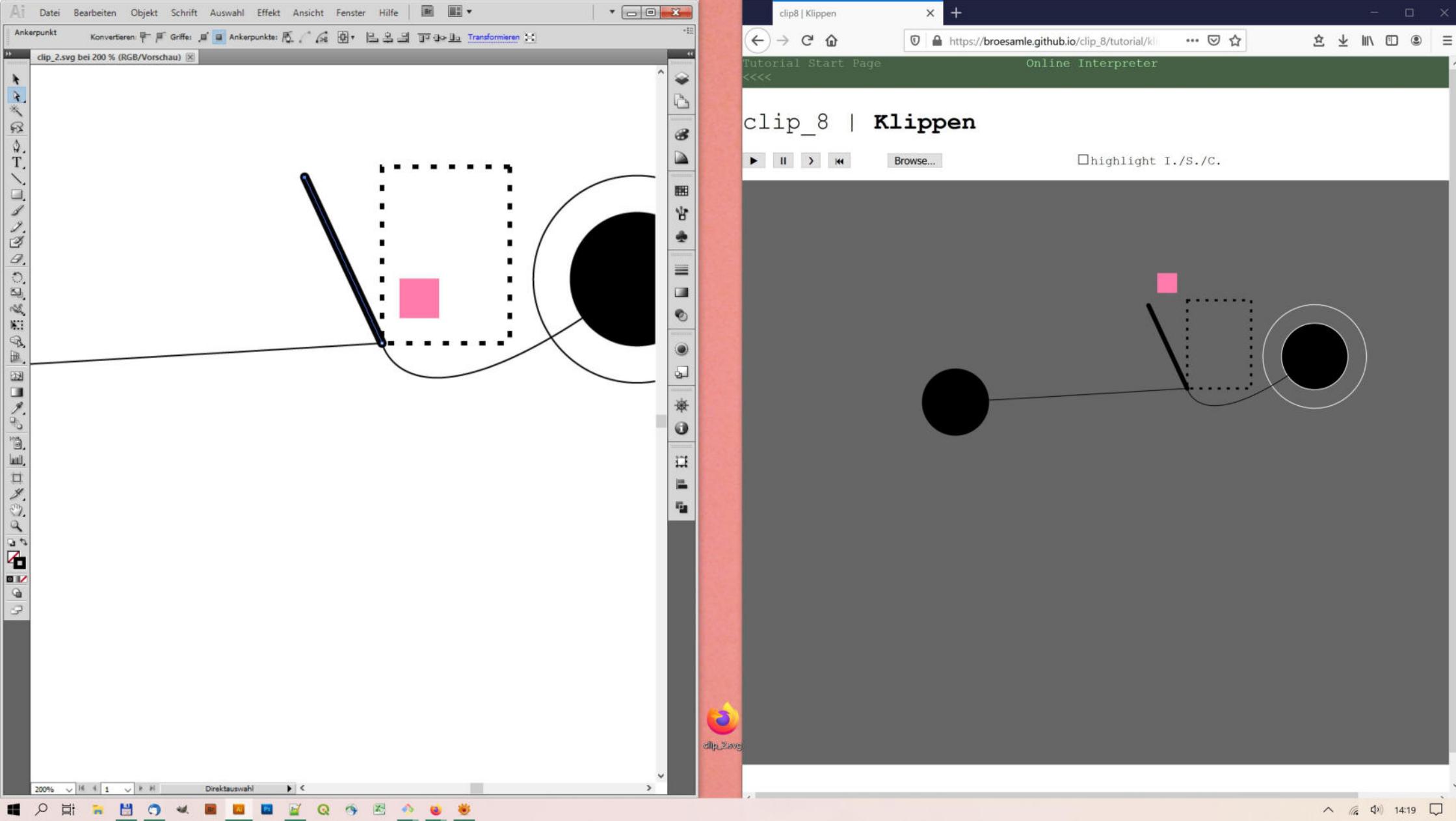


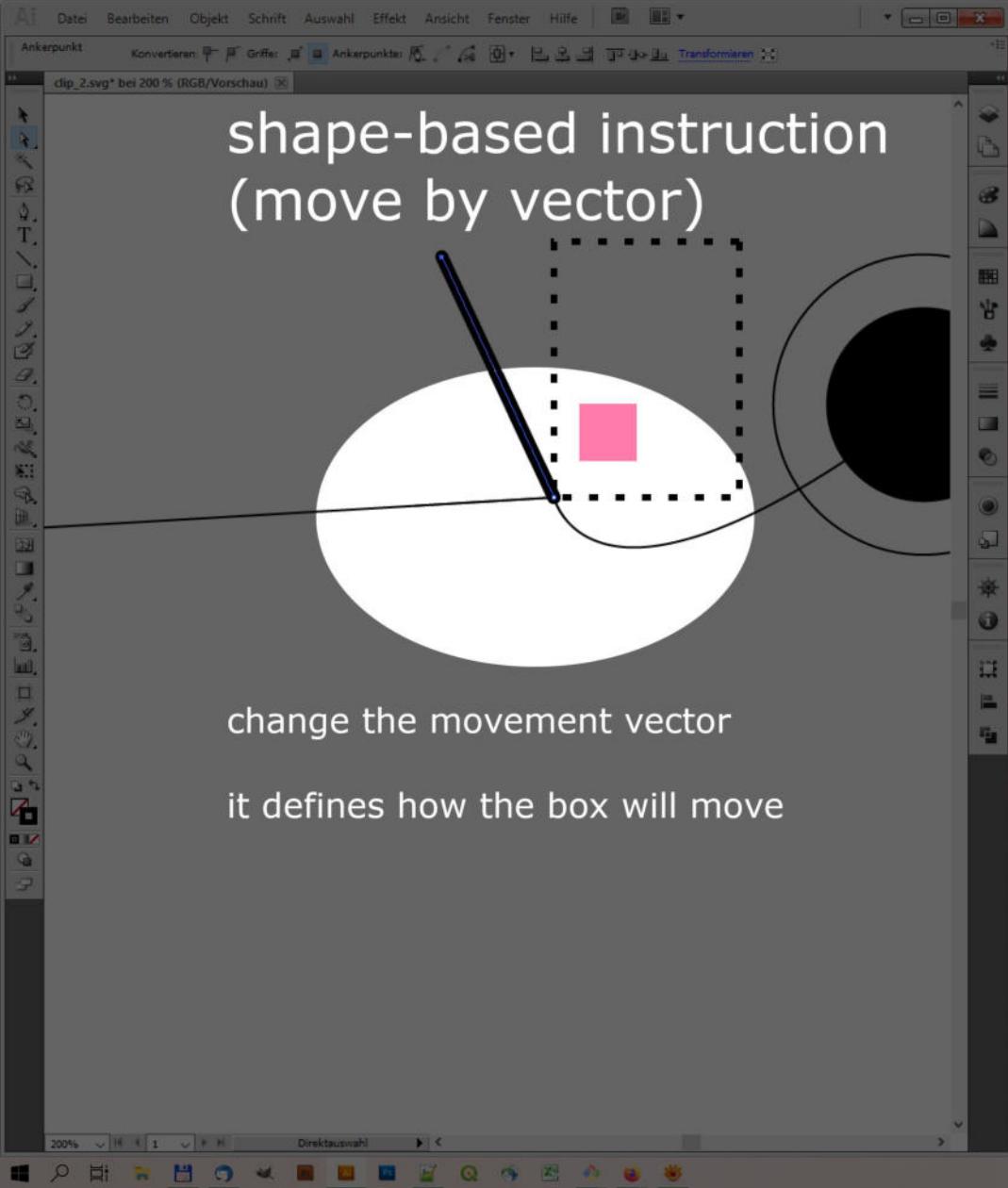










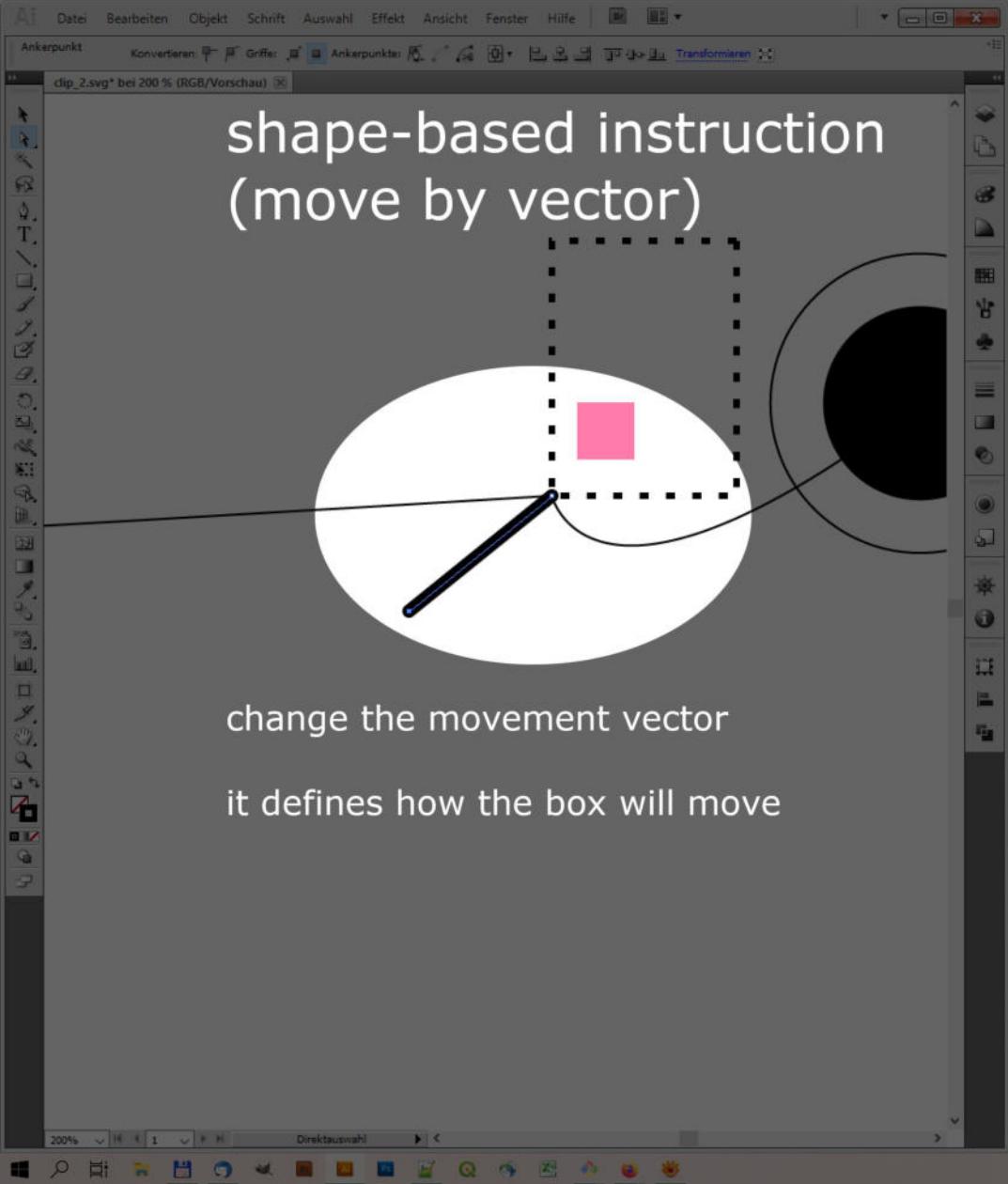


# shape-based instruction (move by vector)

change the movement vector

it defines how the box will move

The screenshot shows a browser window titled "clip8 | Klippen" with the URL "https://broesamle.github.io/clip\_8/tutorial/klippen". The page content includes "Tutorial\_Start\_Page" and "Online Interpreter" sections. Below these, there is a "clip\_8" section with a play button and a "Browse..." button. A checkbox labeled "highlight I./S./C." is present. The main area displays a dark gray background with a black circle on the left, a dashed black rectangle, and a pink square. A black vector line connects the center of the black circle to the top-left corner of the dashed rectangle. This visual represents the result of applying a shape-based movement instruction to the pink square.



# shape-based instruction (move by vector)

change the movement vector

it defines how the box will move

The screenshot shows a web browser window titled "clip8 | Klippen" with the URL "https://broesamle.github.io/clip\_8/tutorial/klippen". The page content includes a "Tutorial\_Start\_Page" link and an "Online Interpreter" section. Below this is a "clip\_8 | Klippen" section with a "Browse..." button and a checkbox labeled "highlight I./S./C.". The main area of the browser shows the same diagram as the Inkscape screenshot, but the pink square has moved to the top-right corner of the dashed rectangle, indicating the effect of the movement vector.

