js-draw Q ≡

js-draw / lib / Editor /

Class Editor

The main entrypoint for the full editor.

Example

To create an editor with a toolbar,

```
const editor = new Editor(document.body);

const toolbar = editor.addToolbar();
toolbar.addActionButton('Save', () => {
  const saveData = editor.toSVG().outerHTML;
  // Do something with saveData...
});
```

See also docs/example/example.ts.

Hierarchy

Editor

Defined in Editor.ts:72

→ INDEX

Constructors

© constructor

Properties

Annotation

- P display
- P history
- P icons
- P image
- P notifier
- P toolController
- P viewport

Methods

- M addAndCenterComponents
- M addStyleSheet
- addToolbar
- announceForAccessibility
- asyncApplyCommands
- asyncApplyOrUnapplyCommands
- asyncUnapplyCommands
- clearWetInk
- createHTMLOverlay
- dispatch
- M dispatchNoAnnounce
- drawWetInk
- estimateBackgroundColor
- focus
- getImportExportRect
- getRootElement
- M handleHTMLPointerEvent
- M handleKeyEventsFrom
- M handlePointerEventsFrom
- M hideLoadingWarning
- M loadFrom
- M loadFromSVG
- queueRerender
- rerender
- sendKeyboardEvent
- sendPenEvent
- setBackgroundColor
- M setImportExportRect
- showLoadingWarning
- (M) toDataURL
- (M) toSVG



Text annotation!

More text.

Constructors

????????????

constructor

```
new Editor(parent, settings?): Editor
```

William work?

• parent: HTMLElement

settings: Partial < Editor Settings > = {}

Returns *Editor*

Example

```
const container = document.body;
// Create an editor
const editor = new Editor(container, {
 // 2e-10 and 1e12 are the default values for minimum/maximum zoom.
 minZoom: 2e-10,
 maxZoom: 1e12,
});
// Add the default toolbar
const toolbar = editor.addToolbar();
// Add a save button
toolbar.addActionButton({
 label: 'Save'
 icon: createSaveIcon(),
}, () => {
  const saveData = editor.toSVG().outerHTML;
 // Do something with saveData
});
```

Properties

display

```
display: Display
```

Manages drawing surfaces/AbstractRenderers.

Defined in Editor.ts:78

history

```
history: UndoRedoHistory
```

Handles undo/redo.

Example

```
const editor = new Editor(document.body);

// Do something undoable.

// ...

// Undo the last action
editor.history.undo();
```

Defined in Editor.ts:94

Readonly icons

```
icons: IconProvider
```

iconProvider

Readonly image

```
image: EditorImage
```

Data structure for adding/removing/querying objects in the image.

Example

```
const editor = new Editor(document.body);

// Create a path.
const stroke = new Stroke([
   Path.fromString('M0,0 L30,30 z').toRenderable({ fill: Color4.black }),
]);
const addElementCommand = editor.image.addElement(stroke);

// Add the stroke to the editor
editor.dispatch(addElementCommand);
```

Defined in Editor.ts:113

Readonly notifier

```
notifier: EditorNotifier
```

Global event dispatcher/subscriber.

Defined in Editor.ts:137

Readonly toolController

```
toolController: ToolController
```

Controls the list of tools. See the custom tool example for more.

Readonly viewport

```
viewport: Viewport
```

Allows transforming the view and querying information about what is currently visible.

Defined in Editor.ts:119

Methods

addAndCenterComponents

addAndCenterComponents(components, selectComponents?): Promise<void>

Parameters

• components: AbstractComponent[]

■ **selectComponents:** boolean = true

Returns *Promise*<*void*>

Defined in Editor.ts:934

addStyleSheet

addStyleSheet(content): HTMLStyleElement

Parameters

• content: string

Returns *HTMLStyleElement*

addToolbar

```
addToolbar(defaultLayout?): HTMLToolbar
```

Creates a toolbar. If defaultLayout is true, default buttons are used.

Parameters

• **defaultLayout:** boolean = true

Returns HTMLToolbar

a reference to the toolbar.

Defined in Editor.ts:306

announceForAccessibility

```
announceForAccessibility(message): void
```

Announce message for screen readers. If message is the same as the previous message, it is re-announced.

Parameters

message: string

Returns void

Defined in Editor.ts:293

asyncApplyCommands

```
asyncApplyCommands(commands, chunkSize): Promise<void>
```

Parameters

• commands: Command[]

• chunkSize: number

Returns *Promise*<*void*>

See

#asyncApplyOrUnapplyCommands

Defined in Editor.ts:760

asyncApplyOrUnapplyCommands

asyncApplyOrUnapplyCommands(commands, apply, updateChunkSize): Promise<void>

Apply a large transformation in chunks. If apply is false, the commands are unapplied. Triggers a re-render after each updateChunkSize-sized group of commands has been applied.

Parameters

commands: Command[]

apply: boolean

updateChunkSize: number

Returns *Promise*<*void*>

Defined in Editor.ts:729

asyncUnapplyCommands

asyncUnapplyCommands(commands, chunkSize, unapplyInReverseOrder?):
Promise<void>

If unapplyInReverseOrder, commands are reversed before unapplying.

Parameters

commands: Command[]

• chunkSize: number

unapplyInReverseOrder: boolean = false

Returns *Promise*<*void*>

See

#asyncApplyOrUnapplyCommands

Defined in Editor.ts:766

clearWetInk

```
clearWetInk(): void
```

Clears the wet ink display.

Returns void

See

getWetInkRenderer

Defined in Editor.ts:866

createHTMLOverlay

```
createHTMLOverlay(overlay): {
   remove: (() => void);
}
```

Creates an element that will be positioned on top of the dry/wet ink renderers.

This is useful for displaying content on top of the rendered content (e.g. a selection box).

Parameters

```
• overlay: HTMLElement
```

```
Returns {
   remove: (() => void);
}
```

```
o remove: (() => void)
```

```
• (): void
```

Returns void

Defined in Editor.ts:884

dispatch

```
dispatch(command, addToHistory?): void | Promise<void>
```

apply a command. command will be announced for accessibility.

Parameters

• command: Command

addToHistory: boolean = true

Returns void | Promise < void >

Defined in Editor.ts:690

dispatchNoAnnounce

```
dispatchNoAnnounce(command, addToHistory?): void | Promise<void>
```

Dispatches a command without announcing it. By default, does not add to history. Use this to show finalized commands that don't need to have announceForAccessibility called.

Prefer command.apply(editor) for incomplete commands. dispatchNoAnnounce may allow clients to listen for the application of commands (e.g. SerializableCommands so they can be sent across the network), while apply does not.

Parameters

• command: Command

addToHistory: boolean = false

Returns void | Promise < void>

Example

```
const addToHistory = false;
editor.dispatchNoAnnounce(editor.viewport.zoomTo(someRectangle),
addToHistory);
```

Defined in Editor.ts:712

drawWetInk

```
drawWetInk(...path): void
```

Draws the given path onto the wet ink renderer. The given path will be displayed on top of the main image.

Parameters

• (Rest) ...path: RenderablePathSpec[]

Returns void

See

getWetInkRenderer flatten

Defined in Editor.ts:855

estimate Background Color

```
estimateBackgroundColor(): Color4
```

Returns Color4

the average of the colors of all background components. Use this to get the current background color.

Defined in Editor.ts:1113

focus

```
focus(): void
```

Focuses the region used for text input/key commands.

Returns *void*

Defined in Editor.ts:873

getImportExportRect

```
getImportExportRect(): Rect2
```

Returns the size of the visible region of the output SVG

Returns Rect2

Defined in Editor.ts:1126

getRootElement

```
getRootElement(): HTMLElement
```

Returns HTMLElement

a reference to the editor's container.

Example

```
// Set the editor's height to 500px
editor.getRootElement().style.height = '500px';
```

handleHTMLPointerEvent

```
handleHTMLPointerEvent(eventType, evt): boolean
```

Dispatches a PointerEvent to the editor. The target element for evt must have the same top left as the content of the editor.

Parameters

```
eventType: "pointercancel" | "pointerdown" | "pointermove" | "pointerup"
```

• evt: PointerEvent

Returns boolean

Defined in Editor.ts:430

handleKeyEventsFrom

```
handleKeyEventsFrom(elem): void
```

Adds event listners for keypresses to elem and forwards those events to the editor.

Parameters

• elem: HTMLElement

Returns void

Defined in Editor.ts:648

handlePointerEventsFrom

```
handlePointerEventsFrom(elem, filter?): {
   remove: (() => void);
}
```

Forward pointer events from elem to this editor. Such that right-click/right-click drag events are also forwarded, elem's contextmenu is disabled.

Parameters

Remove all event listeners registered by this function.

Returns void

Example

```
const overlay = document.createElement('div');
editor.createHTMLOverlay(overlay);

// Send all pointer events that don't have the control key pressed
// to the editor.
editor.handlePointerEventsFrom(overlay, (event) => {
  if (event.ctrlKey) {
    return false;
  }
  return true;
});
```

Defined in Editor.ts:604

hideLoadingWarning

```
hideLoadingWarning(): void
```

Returns void

loadFrom

```
loadFrom(loader): Promise<void>
```

Load editor data from an ImageLoader (e.g. an SVGLoader).

Parameters

• loader: ImageLoader

Returns *Promise*<*void*>

See

loadFromSVG

Defined in Editor.ts:1044

loadFromSVG

```
loadFromSVG(svgData, sanitize?): Promise<void>
```

Alias for loadFrom(SVGLoader.fromString).

This is particularly useful when accessing a bundled version of the editor, where SVGLoader.fromString is unavailable.

Parameters

svgData: string

• sanitize: boolean = false

Returns *Promise*<*void*>

Defined in Editor.ts:1141

queueRerender

queueRerender(): Promise<void>

Schedule a re-render for some time in the near future. Does not schedule an additional re-render if a re-render is already queued.

Returns *Promise*<*void*>

a promise that resolves when re-rendering has completed.

Defined in Editor.ts:793

rerender

```
rerender(showImageBounds?): void
```

Re-renders the entire image.

Parameters

■ **showImageBounds:** boolean = true

Returns void

See

queueRerender

Defined in Editor.ts:821

sendKeyboardEvent

```
sendKeyboardEvent(eventType, key, ctrlKey?, altKey?): void
```

Dispatch a keyboard event to the currently selected tool. Intended for unit testing

Parameters

• eventType: KeyPressEvent | KeyUpEvent

• **key:** string

ctrlKey: boolean = false

altKey: boolean = false

Returns void

Defined in Editor.ts:903

sendPenEvent

```
sendPenEvent(eventType, point, allPointers?): void
```

Dispatch a pen event to the currently selected tool. Intended primarially for unit tests.

Parameters

• eventType: PointerDownEvt | PointerMoveEvt | PointerUpEvt

• point: Vec3

• Optional allPointers: Pointer[]

Deprecated

Returns void

Deprecated See

sendPenEvent sendTouchEvent

Defined in Editor.ts:924

setBackgroundColor

```
setBackgroundColor(color): Command
```

Set the background color of the image.

Parameters

- color: Color4

Returns Command

Defined in Editor.ts:1097

setImportExportRect

```
setImportExportRect(imageRect): Command
```

Resize the output SVG to match imageRect.

Parameters

• imageRect: Rect2

Returns Command

Defined in Editor.ts:1131

showLoadingWarning

```
showLoadingWarning(fractionLoaded): void
```

Generated using TypeDoc

• fractionLoaded: number

should be a number from 0 to 1, where 1 represents completely loaded.

Returns void

Defined in Editor.ts:275

toDataURL

```
toDataURL(format?, outputSize?): string
```

Get a data URL (e.g. as produced by HTMLCanvasElement::toDataURL). If format is

not image/png, a PNG image URL may still be returned (as in the case of HTMLCanvasElement::toDataURL).

The export resolution is the same as the size of the drawing canvas.

Parameters

- format: "image/png" | "image/jpeg" | "image/webp" = 'image/png'
- Optional outputSize: Vec3

Returns *string*

Defined in Editor.ts:990

toSVG

toSVG(): SVGElement

Returns *SVGElement*

Defined in Editor.ts:1014

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