

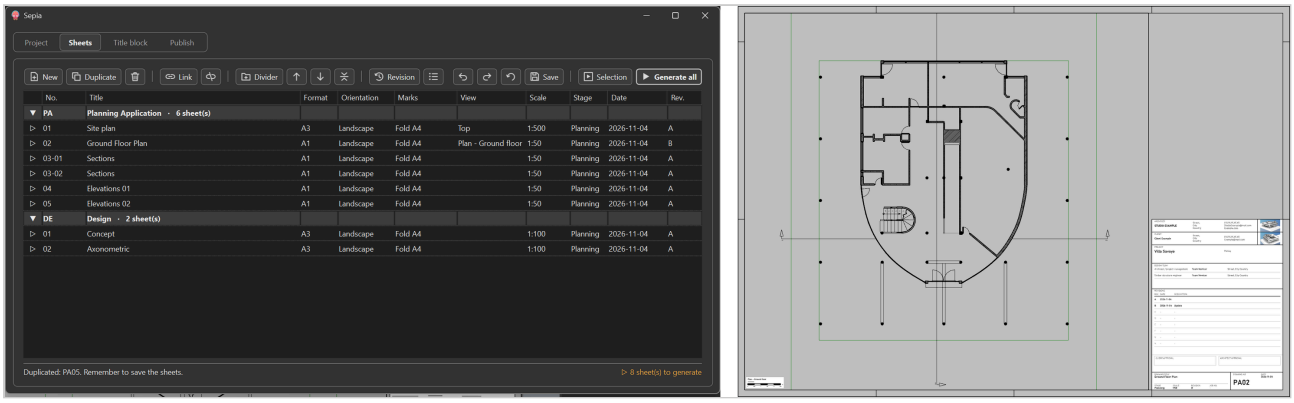
Sepia

Sheet sets for Rhino 8

Sepia turns a Rhino 8 model into a set of drawings: a table of sheets, generated layouts with frame, folding marks and title block, views placed at scale, and PDF publication.

Sepia works with Rhino alone. With VisualARQ 3 installed, it also places VisualARQ plans and sections.

Sepia shows in the language of Rhino (English or French; English for the other languages). To force a language, write `en` or `fr` in a file `%APPDATA%\Sepia\data\language.txt` and restart Rhino (delete the file to follow Rhino again).



The Sepia window next to a generated sheet

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1. Installation

1. In Rhino 8, run the command `PackageManager`, search for **Sepia**, click **Install**. Or: download Sepia from food4Rhino, unzip the file and drag the `.yak` file into the Rhino window.
2. Restart Rhino.

Two commands:

- `Sepia` opens the Sepia window (four tabs: Sheets, Project, Title block, Publish).
- `SepiaSheets` opens the docked **Sheets** panel: the list of the sheets, to navigate.

The window is not modal: keep it open while you work in Rhino.

If Rhino answers "Unknown command" while Sepia is installed: Options > Plug-ins, tick **Enabled** on the Sepia row.

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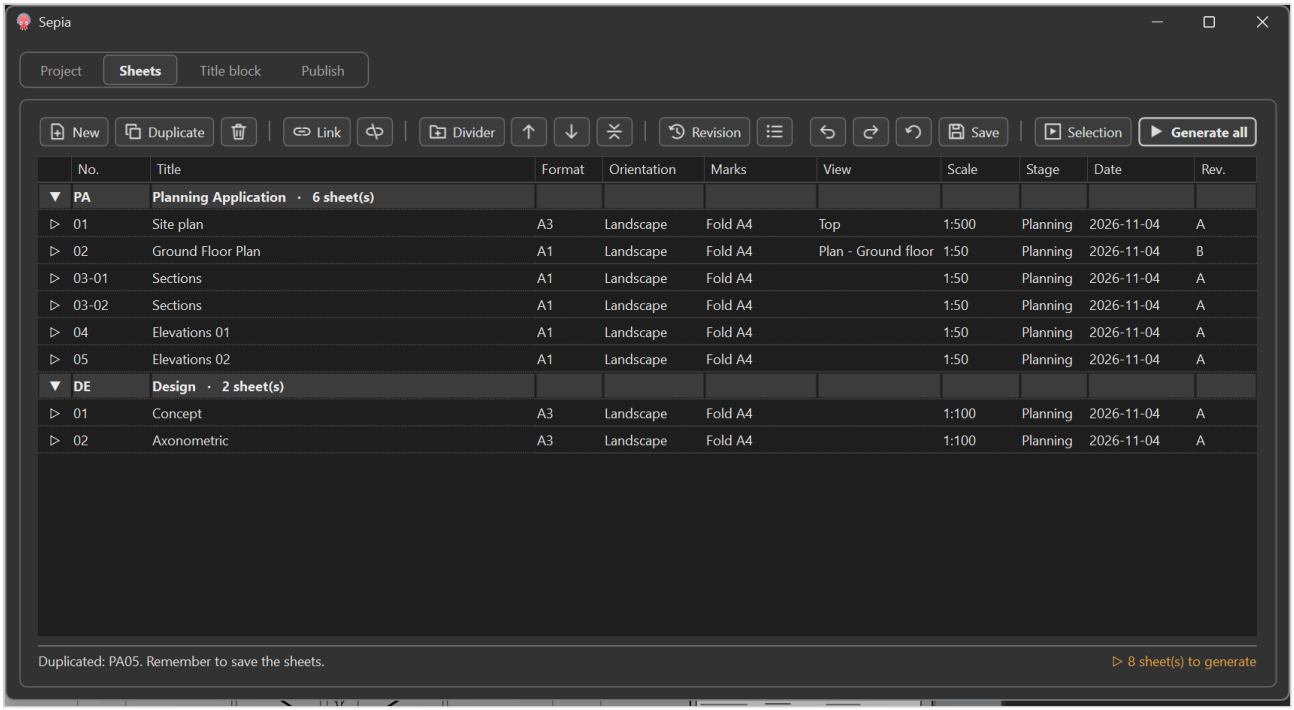
2. Quick start

1. Open your model and run `Sepia`.
2. **Project** tab: fill in the project, client and practice, then **Save in the Rhino file**.
3. **Sheets** tab: a new file starts with one sheet per format (A5 to A0). Change titles, formats and scales, add dividers and sheets.
4. Click a cell of the **View** column to choose the views of a sheet.
5. **Generate all**: Sepia creates or updates one layout per sheet.
6. **Publish** tab: tick the dividers, choose the outputs, **Export**.

7. Save the Rhino file: the sheets, the project and the settings are stored in it.

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3. Sheets tab



The Sheets tab

Dividers and numbering

Sheets are grouped in **dividers** (for example “Planning application”, code “PA”). Each sheet is numbered by its place in its divider: PA01, PA02… The number follows the order, so there are never two sheets with the same number.

- **+ Divider**: new divider (a name and a short code).
- **Drag and drop** a sheet to reorder it or to move it to another divider. You can also type a number in the No. column to place a sheet there.
- **Move up / Move down**: change the order of the dividers.
- ▼ / ▶ in front of a divider collapses or expands it.
- **Duplicate** a sheet, or a whole divider (with a new code). Duplicated sheets are numbered in a series: duplicating “Elevations” gives “Elevations 01” and “Elevations 02”, then 03…

Linked sheets

Select at least two sheets of one divider and click **Link**: they share one number with a sub-number (PA03-01, PA03-02) and move together. Useful for one document spread over several sheets (a long section, for example). **Unlink** separates them again.

Columns

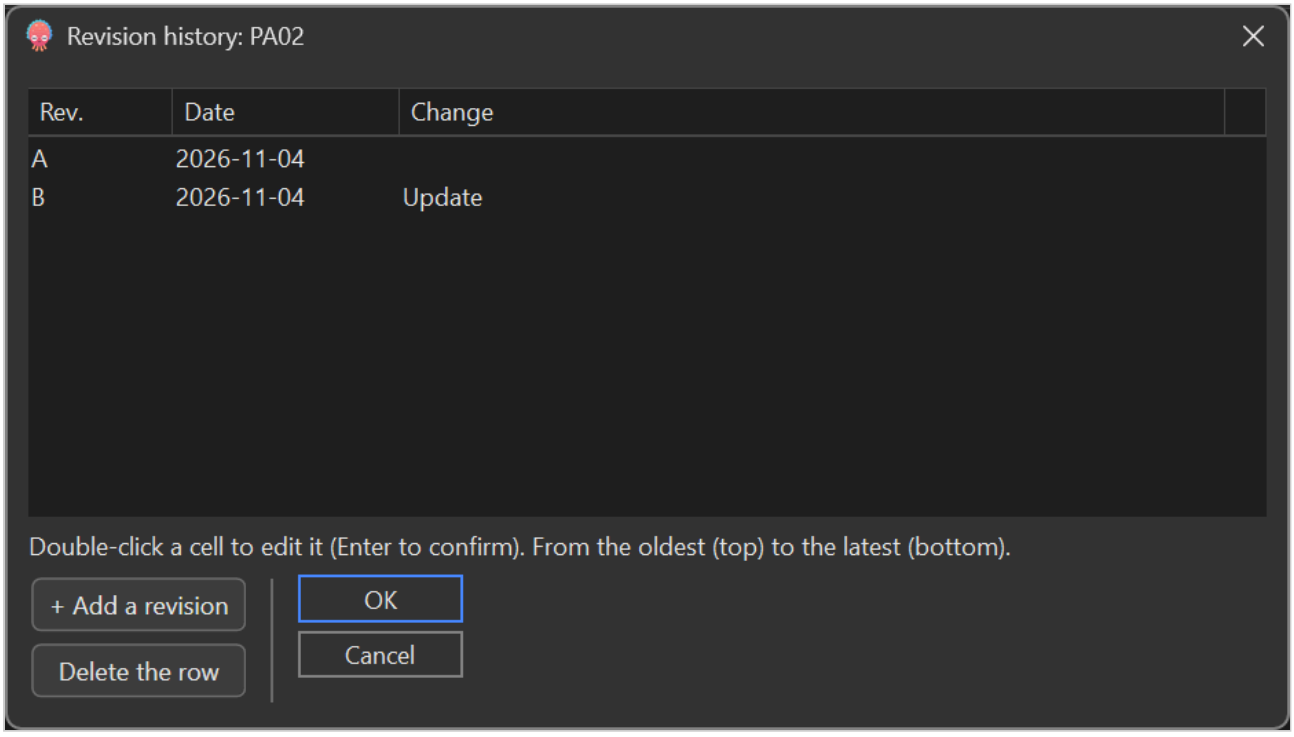
Column	What it does

No.	Reference of the sheet (code + number). Type a number to move the sheet.
Title	Title of the sheet, written in the title block.
Format	A5 to A0, Letter, Tabloid, ARCH C, ARCH D, ARCH E1, ARCH E.
Orientation	Portrait or Landscape.
Marks	**Blank** (nothing), **Fold A4** (frame and folding marks for an A4 folded set), **Fold A5** (frame and A5 folding marks), **Frame** (frame only).
View	Views placed on the sheet (click to choose them, see section 4).
Scale	Scale of the sheet, applied to all its views.
Stage, Date	Written in the title block.
Rev.	Current revision (see below).

Click a cell to change it; the columns with choices open a menu. While typing, **Tab** confirms and goes to the same column of the next sheet (Shift+Tab: the previous one): rename all the sheets in one go.

Revisions

New revision (Ctrl+I) adds a revision to the selected sheets, with the date and a change description. **Revision history** shows and edits all the revisions of one sheet. The title block shows the latest ones.



Revision history of a sheet

Generating

- **Generate all** creates or updates the layouts of all the sheets; **Selection** only those selected.
- ▷ in front of a sheet means its layout is missing or out of date (sheet, title block or project changed since the last generation). The orange counter shows how many sheets need it.

- A layout is updated in place: windows you moved or cropped in Rhino, and display settings changed in Rhino, are kept. A scale changed in Rhino is reported back in the table.
- Each generation is one Rhino undo step (Ctrl+Z in Rhino).

Saving and undoing

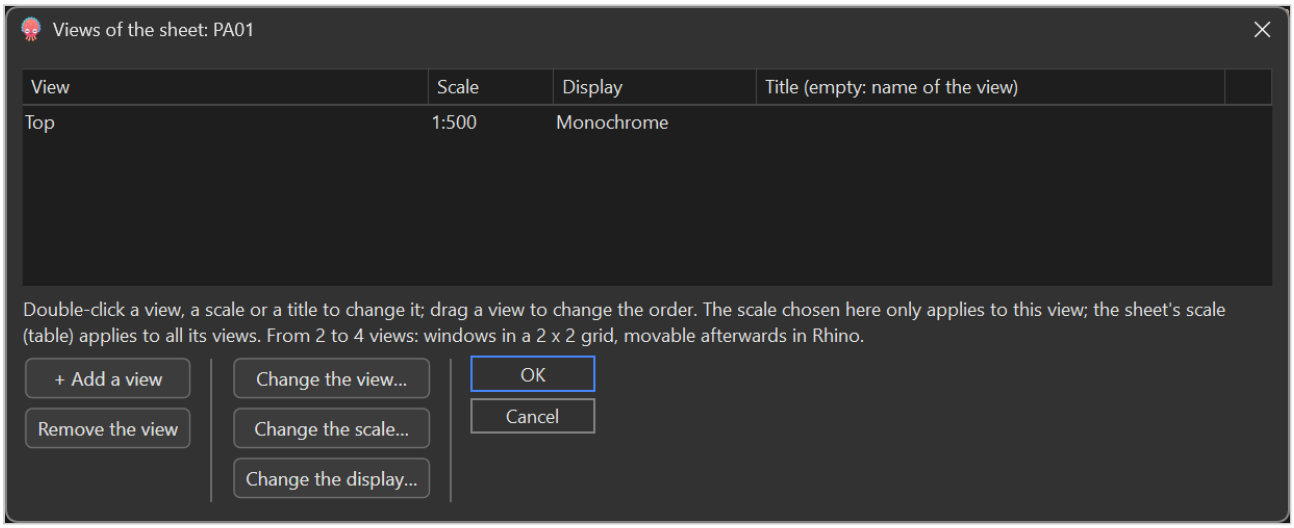
The table is stored in the Rhino file when you click **Save** (and at each generation). Then save the Rhino file itself.

In the window, Ctrl+Z / Ctrl+Y undo and redo your changes to the table step by step; **Discard all changes** goes back to the last save.

Delete (or the Delete key) removes sheets from the table. The layouts already made in Rhino are not deleted.

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4. Views of a sheet

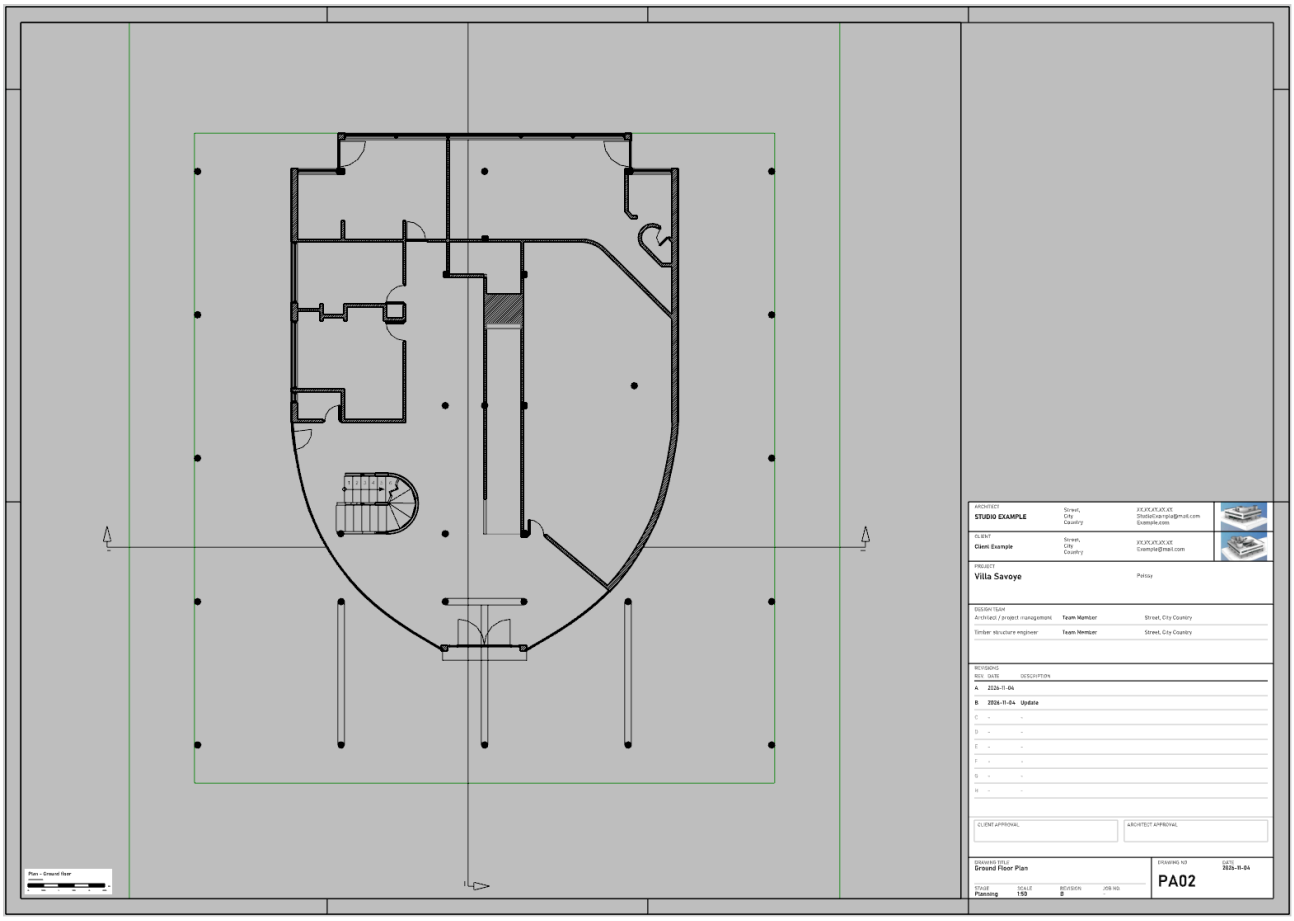


Views of a sheet

Click the **View** cell of a sheet. For each view:

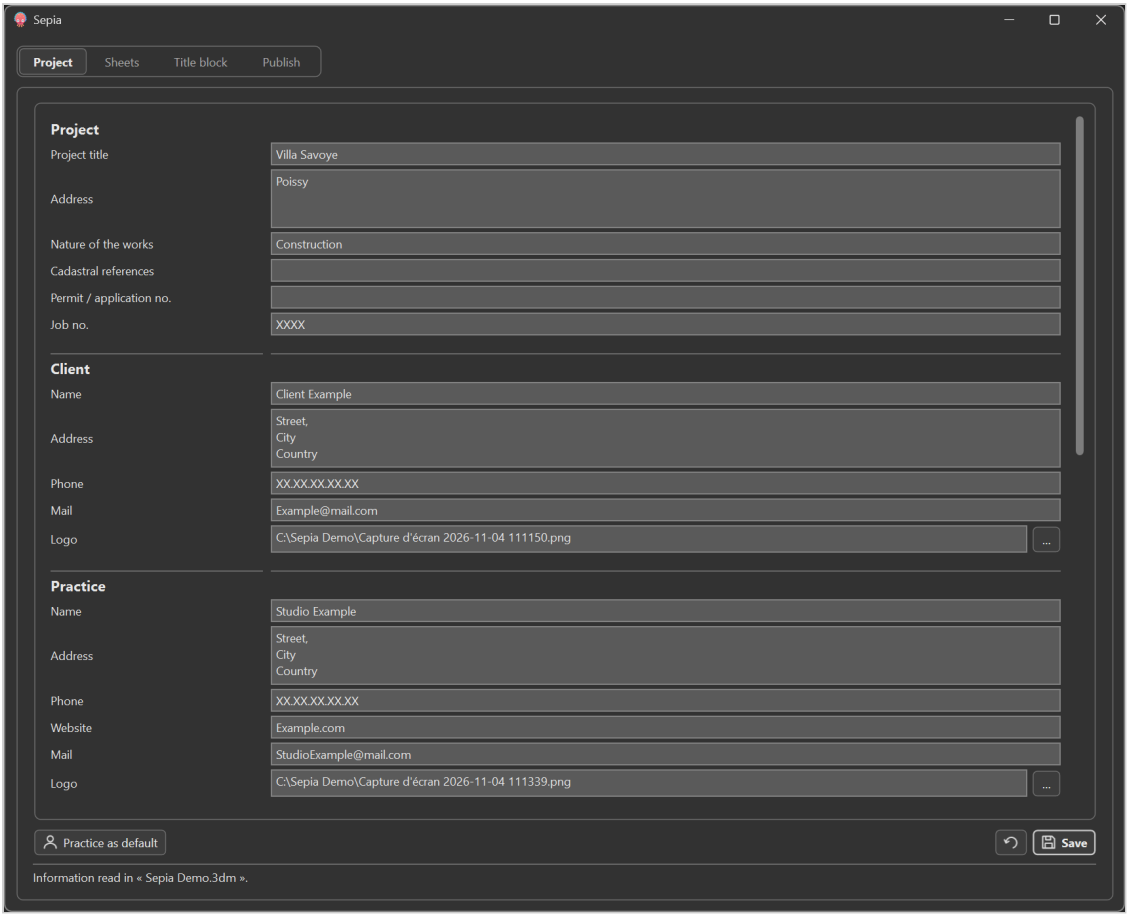
- **View**: a VisualARQ plan (per level) or section, a Rhino named view, or a standard view (Top, Front, Right, Perspective...).
- **Scale**: empty means the scale of the sheet. Perspectives and axonometric views have no scale.
- **Title**: written under the view (empty: the name of the view), with a graphic scale.
- **Display**: Automatic (VisualARQ "Hidden" for VisualARQ views, Monochrome for Rhino views), or any display mode of Rhino.

One view fills the drawing area; two to four views are placed in a 2 x 2 grid, away from the title block. You can then move and resize the windows in Rhino: Sepia keeps them.



A generated A1 sheet: plan at 1:50, title, graphic scale, A4 page title block, folding marks

5. Project tab

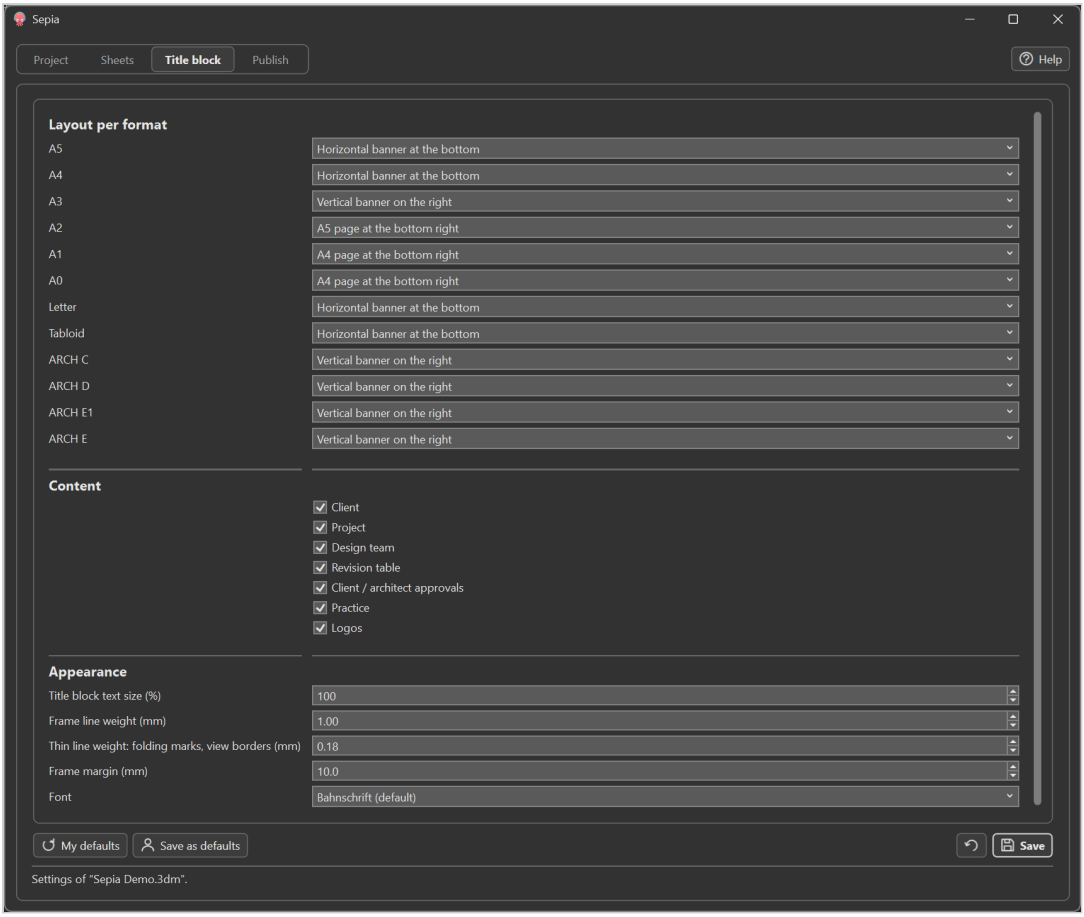


The Project tab

Project title, address, description of works, cadastral references, permit number, job number; client and practice (name, address, phone, email, website, logo); design team (consultants, add your own roles).

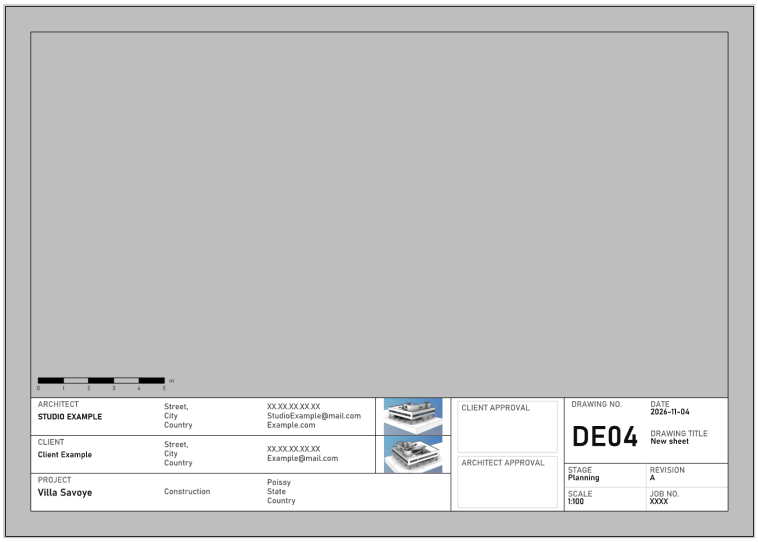
- **Save in the Rhino file**: this information travels with the file.
- **Save the practice as default**: new files take your practice automatically.

6. Title block tab

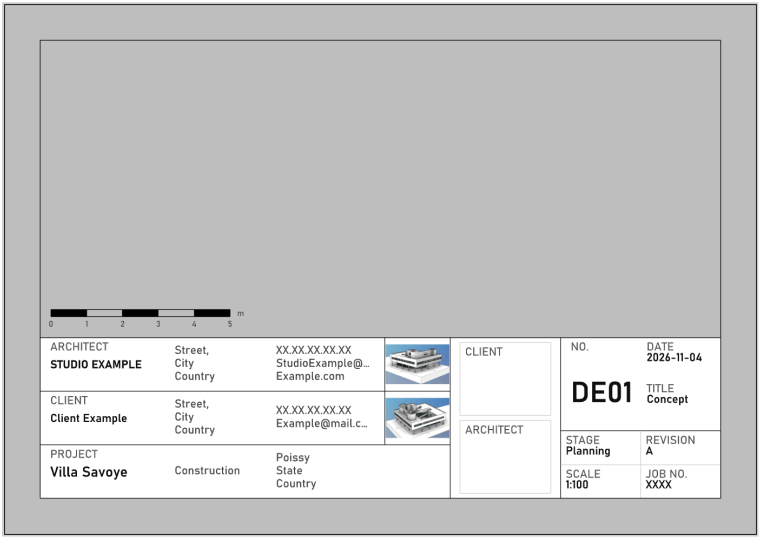


The Title block tab

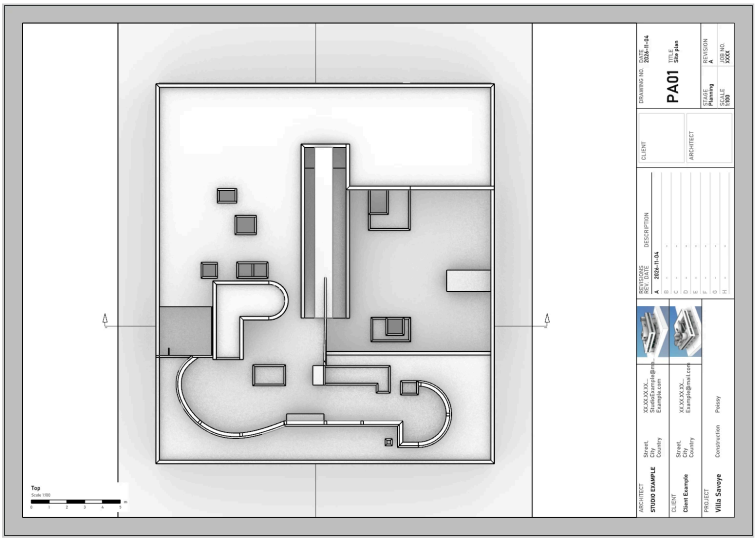
- **Layout per format**: for each format, a horizontal banner (bottom or top), a vertical banner (right or left), an A4 or A5 page (bottom right or left), or no title block.
- **Content**: show or hide the client, project, design team, revision table, approvals, practice, logos.
- **Appearance**: text size, line weights of the frame and of the thin lines, margin, font.
- **Save in the Rhino file** applies the settings to this project (generate again to see them); **Save as default settings** keeps them for your new projects.



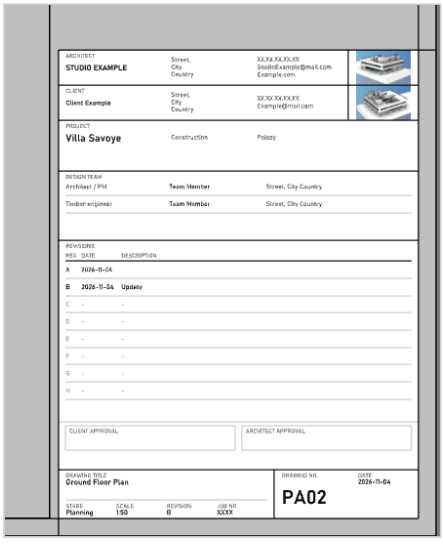
Horizontal banner



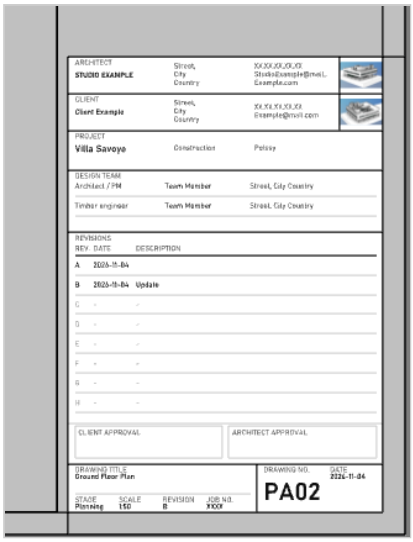
Horizontal banner, small format



Vertical banner



A4 page



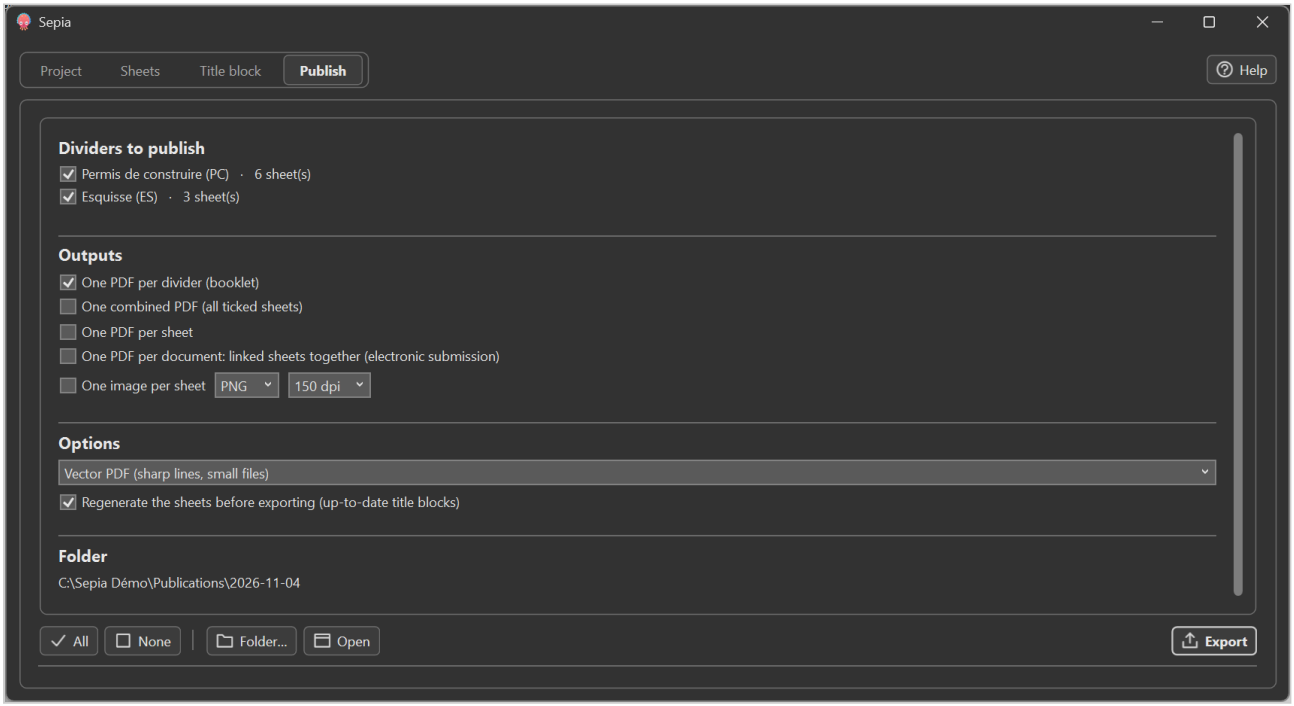
A5 page with A5 folding

Folding

With **Fold A4**, sheets larger than A3 get folding marks for an A4 folded set (folds every 210 mm from the right edge and 270 mm from the bottom edge). With **Fold A5**, sheets larger than A4 get marks every 148 x 210 mm. When the title block is the page of the same format (A4 page with Fold A4, A5 page with Fold A5, bottom right), the folded top page is outlined and the title block shows on top once folded.

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7. Publish tab



The Publish tab

1. Tick the **dividers** to publish (**All** / **None**).
2. Tick the **outputs**:

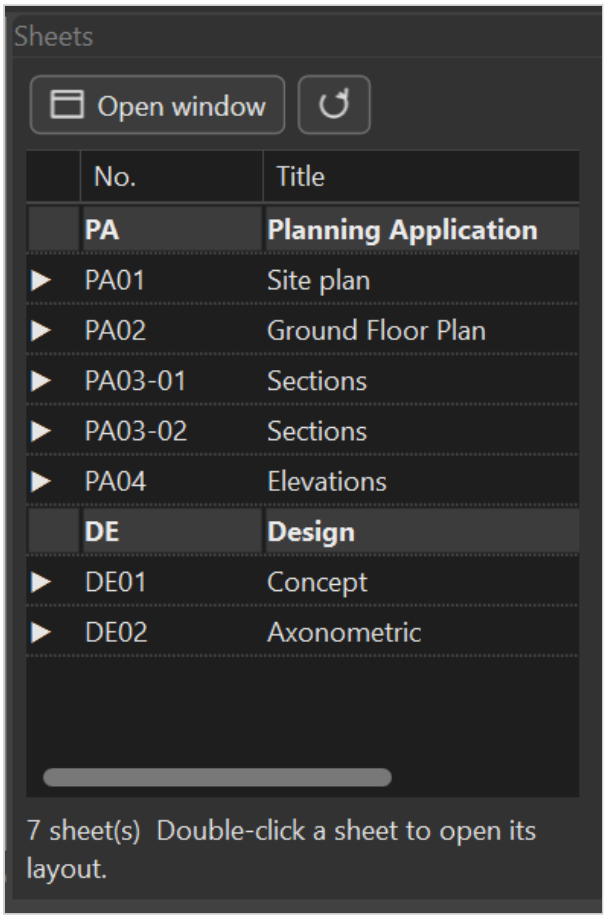
- one PDF per divider (booklet);
- one combined PDF (all ticked sheets);
- one PDF per sheet;
- one PDF per document: linked sheets together, for electronic submissions;
- one image per sheet (PNG or JPEG, resolution to choose).

3. **Options**: regenerate the sheets before exporting (up-to-date title blocks); vector PDF (sharp lines, small files) or raster PDF.
4. **Export**. Sepia checks first (empty title block fields, sheets without a title or not generated, views not found) and asks before publishing anyway.

Files go to a `Publications/<date>` folder next to the Rhino file (or a folder you choose). Nothing is overwritten without asking. **Open** shows the folder.

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8. Sheets panel



The Sheets panel

The docked panel lists the sheets of the open file by divider. Double-click a sheet to open its layout. **Open window** opens the Sepia window.

9. Good to know

- **Where things are stored**: sheets, project information and title block settings are in the Rhino file (they travel with it). Your default settings are in `%APPDATA%\Sepia\data`.
- **Layers**: everything Sepia draws is under the layer "Sepia" (Frame, Folding marks, Title block, Views…). Do not draw your own objects on these layers: Sepia redraws them.
- **Undo in Rhino**: Ctrl+Z undoes a generation; Rhino does not undo the creation of a layout, so Sepia closes the layouts left empty. A generation undone this way cannot be redone with Ctrl+Y: click **Generate** again instead.
- **Slow display modes**: a sheet whose views use a heavy display mode (Raytraced, Rendered with shadows) is slow to generate and to export. Prefer Hidden or Monochrome for drawings.
- **Log**: if something goes wrong, `%APPDATA%\Sepia\logs\sepia.log` tells what happened (send it with your report).

10. Feedback, support and donations

Sepia is my first plug-in, and it is free. It has been tested on my own machine: your feedback helps it work everywhere. If something goes wrong (a bug, a slow step, a strange result):

- write to guigui.mousss@gmail.com, or reply on the Sepia topic of the McNeel forum;
- say what you did and what happened, with your Rhino version (Help > About Rhinoceros);
- attach the log `%APPDATA%\Sepia\logs\sepia.log` (paste this path in the Windows file explorer): it tells me what happened.

Ideas and wishes are welcome too.

If Sepia saves you time, you can support its development with a donation: donate with PayPal.

Sepia is free and provided as is, without warranty of any kind.

Guillaume Moussié