

Resolve Configurator user guide

Scaffolding a DaVinci Resolve project for a multi-theatre event — bins, timelines, asset imports and smart-bin recipes — from the session CSV.

The [README](#) covers install and the three ways to run it (external CLI, desktop GUI, and Resolve's own Scripts menu). This is what to do with it, and what to check.

The idea: one CSV, two tools

The same sessions CSV drives this tool **and** [nc-filedropbatch](#), the Nextcloud app that collects presenter uploads for the same event.

```
      session CSV
     /         \
nc-filedropbatch  resolve-configurator
(collects uploads) (builds the Resolve project)
```

Keep one file, feed it to both. Bin and timeline names here use **the same sanitiser** as the upload folders, so `09:30 - Jane Smith` names the same thing in both places.

Five columns, matched case-insensitively:

```
Date, Theatre, Start Time, presenter name, presenter email
```

A missing required column is a hard error — nothing is built, so a rejected CSV is safe to fix and retry.

The app

Resolve Configurator

Resolve Configurator

Build a DaVinci Resolve project from a theatre / session show.

Sessions

Load CSV...

Add row

Clear

Export CSV...

Date	Theatre	Start time	Presenter name	Presenter email
2026-08-03	Globe	09:30	Alice Nguyen	alice.nguyen@example.com
2026-08-03	Globe	11:00	Marcus Reid	marcus.reid@example.com
2026-08-03	Rose	09:30	Priya Shah	priya.shah@example.com
2026-08-04	Rose	11:00	Tom Baker	tom.baker@example.com

Project settings

Project name

MyEvent {date}

Frame rate

25

Default session mins

90

Width

1920

Height

1080

Recipe output dir

/Users/Shared/Autumn Conference/recipes

Browse...

Load config...

Save config...

Assets (backgrounds / PiP / slides)

Sync theatres from sessions

add images per theatre below

Global (all theatres)

Backgrounds

Add images...

Remove

PiP

Add images...

Remove

Dry run

Apply to Resolve

Loaded 6 session row(s).

Everything comes off one screen: load the session CSV, set the project name, frame rate and resolution, attach backgrounds and PiP images per theatre, then either **Dry run** or **Apply to Resolve**.

Always dry-run first

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add images per theatre below

Global (all theatres)

Backgrounds

Add images...

Remove

PiP

Add images...

Remove

Dry run

Apply to Resolve

Done.

Project: MyEvent 2026-08-03 [create_if_missing=True]
Settings:
 timelineFrameRate = 25
 timelineResolutionWidth = 1920
 timelineResolutionHeight = 1080
Media pool:
 Globe
 2026-08-03
 09-30 - Alice Nguyen

The dry run prints the whole plan — the resolved project name, every setting, and the bin tree down to each session — without touching Resolve.

```
resolve-configure sessions.csv --config project.toml --dry-run
```

`--dry-run` **never touches Resolve**. It prints the planned structure and **still writes the smart-bin recipes** — so it's also the way to get the rules without building anything.

Use it to check the bin tree, the timeline names and the derived session windows before you let it near a real project.

Session end times are derived, not read

The CSV has a start time and no end time. **A session ends when the next one on that theatre and day starts.**

Two consequences:

- **A gap in the schedule becomes part of the preceding session's window.** An hour's break after a 30-minute talk gives that talk a 90-minute timecode range.
- `default_session_minutes` **applies to exactly one session per theatre per day** — the last one, which has no "next" to end it. Setting it doesn't change any other session's length.

If the derived windows look wrong, that's the rule to check first — not the config.

The smart-bin rules assume time-of-day timecode

Resolve's scripting API **cannot create smart bins**, and at build time the recordings don't exist in the media pool anyway. So the tool writes `smart-bins.md` and `smart-bins.json` with the exact rules to recreate each one **by hand, once**:

Field	Operator	Value
File Path	Contains	the theatre's record drive
Date Created	is	the session date
Start TC	is in the range	session start ... session end

The Start TC rule only works if your recorders are jammed to time-of-day timecode. If they're free-running or reset per card, the rule matches nothing and the smart bin looks empty — which is a recorder configuration problem, not a tool problem.

Confirm timecode jam **before** the event, not when you're looking for a missing session.

Read the run summary

Three kinds of imperfect row still produce output, on purpose — a partial build is more useful than a refusal — and each one leaves a gap that looks fine until you use it:

Situation	What you get	What's missing
Unparseable start time	a timeline named from the raw value	no timecode rule in that recipe
Missing theatre	an untitled bin	—
Theatre not in <code>[drives]</code>	bins and timelines as normal	no File Path rule in that recipe

All three are reported in the summary. **A recipe with a missing drive or timecode rule will still import cleanly and quietly over-match.**

Assets and project settings

Asset paths in the config are relative to the config file, not to where you run the command.

`[project.settings]` is a **verbatim passthrough** to Resolve's `SetSetting()` — anything you put there is applied without validation, so a misspelled key or an unsupported value is **silently ignored by Resolve**. If a setting didn't take, check the spelling against Resolve's own setting names before suspecting the tool.

`frame_rate` is a **string** using Resolve's own values (`"25"` , `"23.976"`), not a number.

`{date}` in the project name expands to the **earliest** session date in the CSV.

Re-running

Safe. Bins are found-or-created, and timelines already present are skipped by name. Add sessions to the CSV, run again, and only the new ones are created.

Timeline name collisions are auto-disambiguated by appending `[theatre date]`.

Requirements worth knowing before the day

- **Python 3.11+** — no third-party runtime dependencies.
- **DaVinci Resolve Studio** to apply a build from outside Resolve. External scripting is a Studio feature. **The free version can only run this from Resolve's own Workspace → Scripts menu** — which works, but is a different route with a different setup.

Troubleshooting

Symptom	Cause
"The CSV is empty" / missing column	Header names don't match. Nothing was built (The idea: one CSV, two tools).
Session windows longer than the talks	Windows are derived from the next session's start — gaps get absorbed (Session end times are derived, not read).
One session per day is the wrong length	That's the last one, using <code>default_session_minutes</code> (Session end times are derived, not read).
A smart bin is empty in Resolve	Recorders probably aren't on time-of-day timecode (The smart-bin rules assume time-of-day timecode).
A smart bin over-matches	Its recipe is missing the drive or timecode rule — check the run summary (Read the run summary).
A bin called <code>untitled</code>	A row with no theatre (Read the run summary).
A timeline named from a raw time string	Unparseable start time; it also has no timecode rule (Read the run summary).
<code>09:30</code> became <code>09-30</code>	Intentional — <code>:</code> is replaced, not stripped, so names never collide (The idea: one CSV, two tools).
An asset wasn't imported	Paths are relative to the config file , not the CWD (Assets and project settings).
A project setting didn't apply	<code>[project.settings]</code> is unvalidated passthrough; Resolve ignored it (Assets and project settings).
External CLI can't reach Resolve	External scripting needs Resolve Studio (Requirements worth knowing before the day).
Re-ran and nothing happened	Existing timelines are skipped by name — that's the safe behaviour (Re-running).

See also

- [API.md](#) — CLI flags, the full TOML schema, the CSV contract, the recipe format
- [DEVELOPING.md](#) — tests and the dry-run pattern
- [README](#) — install and the three ways to run it

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Latest version of this guide: stoatworks-labs.com/software/resolve-configurator/guide/ · Source and issues:

<https://github.com/stoatworks-labs/resolve-configurator>