

Everything Carve can put on a slide

Diagrams, charts, math, real SVG, and the parts of the language a deck actually uses.

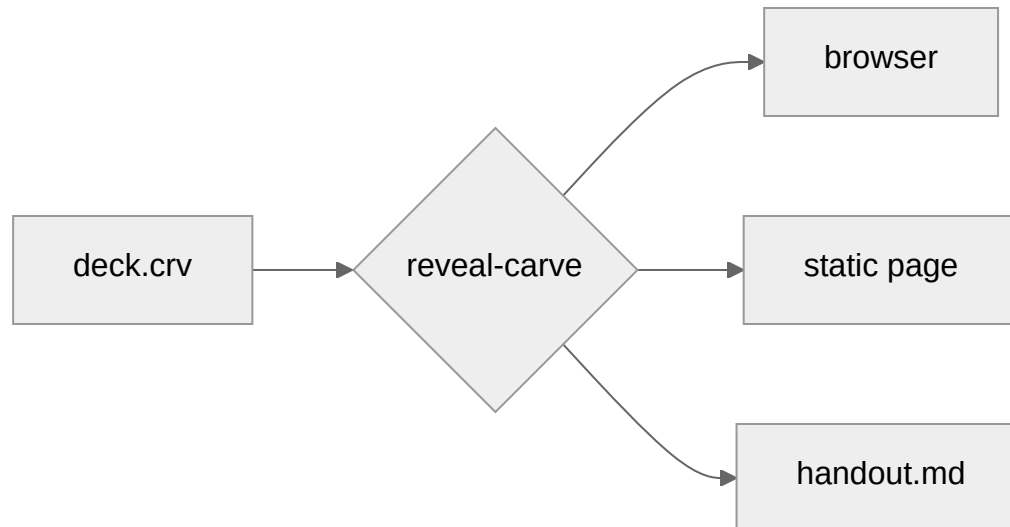
What is in here

- Everything Carve can put on a slide
- Mermaid, drawn on the slide
- A sequence, same idea
- A chart from data in the source
- Real SVG, inline in the source
- Math
- Footnotes and definitions
- Task lists and admonitions
- The small type
- Quotes and tables
- All of it from one file
- The rest of the language
- On this deck

What is in here

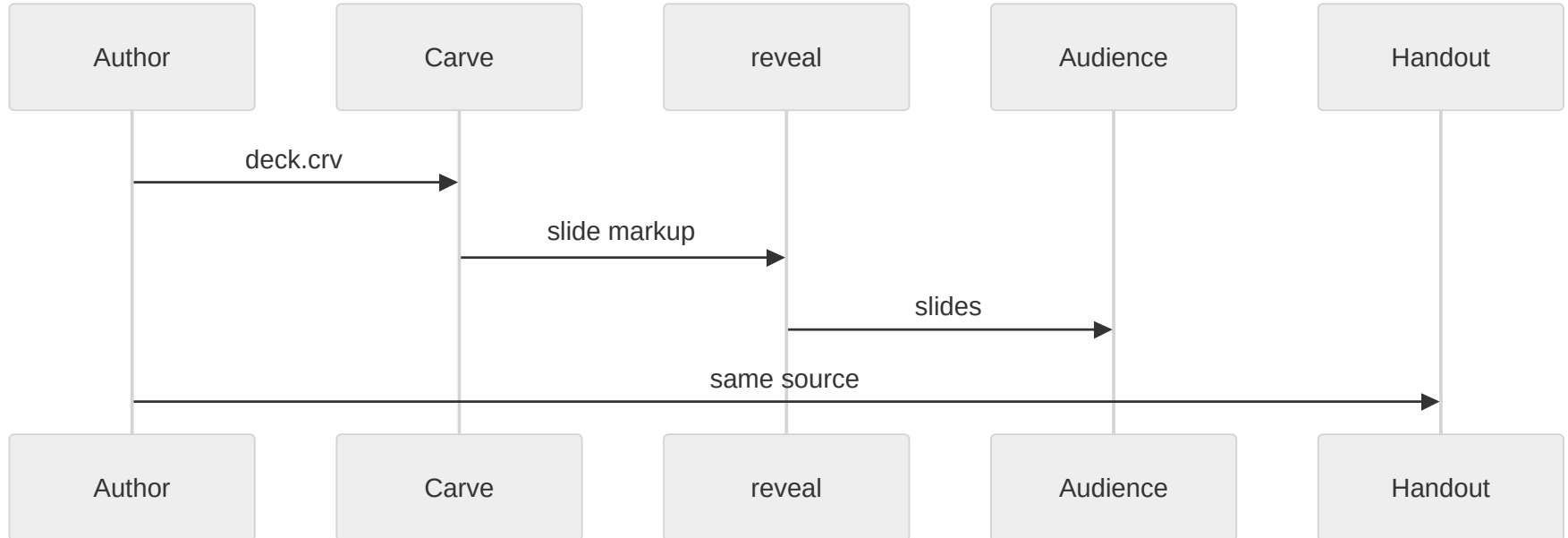
- Tabs
- Code groups
- Details, folded away
- A table with block content
- Spoilers and swatches
- Diffs and line numbers
- Code with callouts
- Auto-animate
- Auto-animate, grown
- Containers as real elements
- When a slide is broken
- That is the language

Mermaid, drawn on the slide

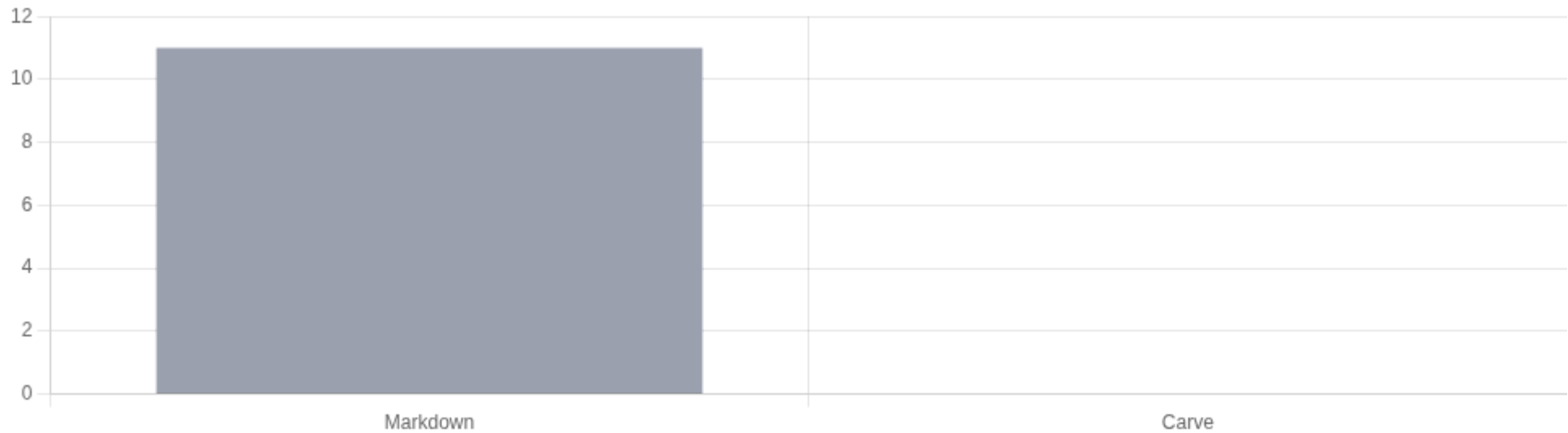


--extension mermaid. Carve emits the block, Mermaid draws the SVG.

A sequence, same idea



A chart from data in the source



--extension chart. The JSON is Chart.js configuration, kept in the deck source.

Real SVG, inline in the source



--extension imgFence:{"language":"svg"}. The SVG is sanitized and emitted as a data URI, so nothing external is loaded.

Math

$$t_{upgrade} = \sum_{i=1}^n (c_i \cdot d_i) + r$$

--extension `mathBlock` plus KaTeX on the page.

Footnotes and definitions

CakePHP 5 removed every deprecation that was live in 4.5^{[1](#)}.

Deprecation

An API that still works but is scheduled to disappear.

Rector

The tool that applies the mechanical part of an upgrade.

1. Migration guide 5.0, “Deprecated Features Removed”.^{[↩](#)}

Task lists and admonitions

- ✓ Tests green on 4.5
- ✓ Deprecations resolved
- PHP 8.1 in production
- Plugins checked

WARNING

Run the upgrade tool **before** bumping the dependency. Afterwards it cannot resolve the old class names.

The small type

Press `Ctrl` then `S` to open the speaker view. HTML is rendered as an abbreviation.

Text can be highlighted, struck through, raised to x^2 or lowered to H_2O .

Brand red is  #d33c43, the muted tone is  #6b7280.

Quotes and tables

“ The slides are the handout, and that is the problem.

- Every training feedback form, ever

Feature	Markdown	Carve
Escaping in code	required	none
Columns	HTML	containers
Includes	none	{{ path }}
Lint	style only	structural

All of it from one file

No raw HTML on any slide.

The rest of the language

Constructs the first showcase left out, plus the three plugin features that are easiest to miss.

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Tabs

Symptom

The upgrade runs, and half the finders are gone.

- No error, no exit code
- Only the tables with a behavior

Cause

What ran	Against
The rule set	4.5 sources
The finder rename	Nothing it matched

Fix

1. Bump the dependency

2. Run the rules again

3. Re-run the touched tests

“

The order is the fix.

- -extension tabs. Any block goes in a tab: prose, a table, a list, a quote. Up and down switch tabs, left and right stay with the deck.

Code groups

Composer

```
composer require cakephp/cakephp:^5.2
```

composer.json

```
{ "require": { "cakephp/cakephp": "^5.2" } }
```

Application.php

```
$this->addPlugin('Migrations');
```

--extension codeGroup. One block per file, switched on screen and unfolded in the PDF.

Details, folded away

▼ Details

The long version of why buffering changed

5.0 always buffered result sets, which raised memory on large exports. 5.1 brought back `disableBufferedResults()`.

Useful for the question you only sometimes get asked.

A table with block content

Step	Command	Guards it
Deprecations	<pre>bin/cake upgrade rector --rules cakephp45 src</pre>	Tests
The jump	<pre>composer update -W</pre>	Tests, PHPStan

Spoilers and swatches

The answer to “how long does the upgrade take” is

.

Palette:  #d33c43 accent,  #1f7a4d success,  #6b7280 muted.

Spoilers and swatches

The answer to “how long does the upgrade take” is as long as your test suite is short (revealed).

Palette:  #d33c43 accent,  #1f7a4d success,  #6b7280 muted.

Diffs and line numbers

```
let icon = document.querySelector('li.file-entry > span.icon');  
- icon.classList.add('icon-file-text');  
+ icon.classList.remove('icon-file-text');
```

```
1 $table->updateQuery()  
2   ->set(['published' => true])  
3   ->execute();
```

`{.diff}` colours the changed lines, `{data-line-numbers}` numbers them. Both are plain Carve attribute lines.

Code with callouts

```
$query = $this->Articles->selectQuery();  
$query->contain(['Authors'])  
->where(['published' => true]);
```

1
2

- 1 One query type, so the IDE and PHPStan know what comes next.
- 2 Eager loading, which is the whole point of the slide.

--extension codeCallouts. The markers bind to the list under the block.

Auto-animate

One idea

Auto-animate, grown

One idea, moved and grown

Two slides, both with `%% animate`, and the same `data-id` on the element that should travel. Without that id reveal has nothing to pair, because the text differs.

Containers as real elements

Built with `--element card=figure`

This box is a `<figure>` in the output, while the source stays `{ .card }` plus a container.

When a slide is broken

A source error does not shorten the deck silently. It renders a slide carrying the engine's message, so you see it on the projector instead of wondering where slide nine went. - - `strict` fails the build instead.

That is the language
Still no raw HTML.