Tiles from a JSON file

A page that shows numbers should not copy them by hand. The `data` tile reads a JSON file when the site is built and becomes the tile that draws it.

```
:::tile data
source: status.json
as: kpi
kpi: name
value: count
delta: change
:::
```

with `status.json` next to the page:

```
[
  {"name": "Open issues", "count": 42, "change": "+3"},
  {"name": "Closed this week", "count": 17}
]
```

The data tile becomes the tile it draws as, with the same lines the hand-written tile takes, and the same renderer draws it, so the two cannot differ.

The lines

- `source` is the JSON file, relative to the page's own folder and inside it: an array of flat objects, 500 rows at most.
- `as` is `kpi`, `timeline`, `flow`, `pill` or `progress`.
- The mapping lines are the lines of that tile, each naming the key of every row that holds it. For `kpi`: `kpi`, `value`, `delta`, `trend`, `tone`, `note`. For `timeline`: `event`, `date`, `time`, `body`. For `flow`: `from` and `to`, one edge a row. For `pill`: `status` and `label`. For `progress`: `value`, `max`, `label` and `status`.
- `order` for a timeline and `title` for a flow are written as for the tile itself.

A value is text, a number or `true` or `false`, and a number is written as a person would write it (`42`, `-2`, `3.5`). `pill` and `progress` are a stack, one tile for each row, where the others are one tile for all the rows.

A whole board in one file

`at` names the key of a JSON object whose value is the array of rows, so one file can feed a whole board, each part a data tile with its own `at`:

```
:::tile data
source: board.json
at: pills
as: pill
label: who
```

```
status: state
:::
```

with `board.json` next to the page:

```
{"pills": [{"who": "Build", "state": "running"}, {"who": "Docs", "state":
"done"}]}
```

Here is that very file read by a data tile on this page:

Build **running**

Docs **done**

A missing key under `at` is an error that names it, a value under `at` that is not an array is an error, and `at` on a file that is a plain array is an error. The full reference is "Data tile" in `docs/authoring.md`.