

# Package: leafsync (via r-universe)

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**Type** Package

**Title** Small Multiples for Leaflet Web Maps

**Version** 0.1.1.9002

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**Description** Create small multiples of several leaflet web maps with (optional) synchronised panning and zooming control. When syncing is enabled all maps respond to mouse actions on one map. This allows side-by-side comparisons of different attributes of the same geometries. Syncing can be adjusted so that any combination of maps can be synchronised.

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**URL** <https://github.com/r-spatial/leafsync>

**BugReports** <https://github.com/r-spatial/leafsync/issues>

**Depends** R (>= 3.1.0), methods

**Imports** htmltools (>= 0.3), htmlwidgets, leaflet (>= 2.0.1)

**Encoding** UTF-8

**LazyData** true

**RoxygenNote** 7.1.2

**Repository** <https://r-spatial.r-universe.dev>

**RemoteUrl** <https://github.com/r-spatial/leafsync>

**RemoteRef** HEAD

**RemoteSha** e4c25d9cfbf3da2ec1ee4e1048944d81450e70d3

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latticeView

*View two or more (possibly synchronised) mapview or leaflet maps*


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### Description

This function produces a lattice like view of two or more maps. It is possible to sync any combination of panels or all or none. For synchronising all panels it is best to use the provided convenience function `sync`.

### Usage

```
latticeView(
  ...,
  ncol = 2,
  full.height = TRUE,
  sync = "none",
  sync.cursor = FALSE,
  no.initial.sync = TRUE,
  between = list(x = "2px", y = "2px")
)
```

```
latticeview(...)
```

```
sync(
  ...,
  ncol = 2,
  full.height = TRUE,
  sync = "all",
  sync.cursor = TRUE,
  no.initial.sync = TRUE,
  between = list(x = "2px", y = "2px")
)
```

### Arguments

<code>...</code>	any number of mapview or leaflet objects or a list thereof
<code>ncol</code>	how many columns should be plotted
<code>full.height</code>	logical; should the produced lattice view be scaled to the complete height of the viewer (or browser); default to TRUE. If FALSE, the height of each panel falls back to the default sizing policy height of leaflet (400px).
<code>sync</code>	whether to synchronise zoom and pan for certain elements. Possible values are "all" (default) to sync all maps, "none" to disable synchronisation or a list of panel numbers, e.g. <code>list(c(1, 3), c(2, 4))</code> will synchronise panels 1 & 3 and panels 2 & 4. Panels are drawn from top right to bottom left.
<code>sync.cursor</code>	whether to show cursor position in synced panels (default TRUE).

`no.initial.sync` whether to sync the initial view (default TRUE).

`between` a named list with components "x" and "y" specifying the space between panels in pixels . "x" refers to CSS property "margin-right", "y" refers to CSS property "margin-top". Default is 'list(x = "2px", y = "2px")'.

## Functions

- `latticeview`: alias for ease of typing
- `sync`: convenience function for syncing maps

## Examples

```
if (interactive()) {
  library(leaflet)
  library(leafsync)

  m1 = leaflet() %>%
    addTiles() %>%
    addPolygons(data = gadmCHE)

  m2 = leaflet() %>%
    addProviderTiles("Esri.WorldImagery") %>%
    addCircleMarkers(data = breweries91,
                     color = "black",
                     opacity = 0.9,
                     fillColor = "white",
                     fillOpacity = 0.9)

  # synced
  sync(m1, m2)
  sync(m1, m2, no.initial.sync = TRUE)

  # not synced
  latticeview(m1, m2)
  latticeview(m1, m2, ncol = 1)
}
```

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