

# Overview

This is a nice, succinct and well written paper with meaningful examples. The work presented fits into the **tidyverts** ecosystem, and the interactivity presented is useful to explore and visualize time series data. The approach taken builds on plotting and interactivity features from plotly, crosstalks, and shiny which already has a large usership and hence has an increased chance to be adopted.

## Article

- Please mention that tidyverts also contains the tsibbletalk package
- The sentence "The techniques implemented in work described in this paper utilise web technology." could be more specific. One fix could include moving the sentence in the Summary section "At the heart of the tsibbletalk package is a blending of the best bits from tsibble, crosstalk, plotly, and shiny." to an earlier section in the paper.
- In the section "Linking between plots" you write "... linking is by time, ...". It seems to me that linking is by key, so all time series points associated to a particular key are linked
- The phrasing "to allow for structured specifications in the key" is unclear. It would be better to be more explicit saying that it is to define the crossing and/or nesting relationships among the key variables.
- The phrasing "user-supplied session id" is wrong, a session means something very particular in shiny whereas the id argument if a module takes an id string (that should not be repeated in the same shiny namespace).

## Package

Reviewed Git Commit: 63f04a8d4afafb05114860df14aad7e10335cb4f  
(master on Dec 29, 2020)

### Selected feedback from the `goodpractice` package

- write unit tests for all functions, and all package code in general. 0% of code lines are covered by test cases.
- add a "URL" field to DESCRIPTION. It helps users find information about your package online. If your package does not have a homepage, add an URL to GitHub, or the CRAN package package page.
- add a "BugReports" field to DESCRIPTION, and point it to a bug tracker. Many online code hosting services provide bug trackers for free, <https://github.com>, <https://gitlab.com>, etc.

- not import packages as a whole (i.e. `vctrs`), as this can cause name clashes between the imported packages. Instead, import only the specific functions you need.

All `goodpractice` feedback can be re-created using `goodpractice::goodpractice()`.

## More R package Feedback

- `plotly_key_tree`
  - add an argument check if the data argument is indeed a `SharedTsibbleData` object with nesting.
  - returns the warning: ``group_by_()` is deprecated as of dplyr 0.7.0. Please use `group_by()` instead.`
- `as_shared_tsibble & plotly`
  - The manual entry `?as_shared_tsibble` is too brief. It should at least mention that the returned object extends the `SharedData` class defined by the `crosstalk` R package. It would be also useful to mention what exactly can be done with this class.
  - Comment: Slow linking / UI for the example (whereas in the context of the shiny module a lot of work was put into place to improve speed).
  - Multiselect via box select and lasso select does not work.
- Shiny Module
  - `tsibbleWrapServer` should check if the plot argument receives a ggplot or plotly object, e.g.
  - 
  - `tsibbleWrapServer <- function(id, plot, period) {`

```
if (!(is_ggplot(plot) || is(plot, "plotly")))
  abort("plot must be a ggplot or plotly object")
```

- I am not sure why the `output$plot <-` needs to be in the `observeEvent` call. Would the following code be sufficient?
- 
- `output$plot <- renderPlotly(plot)`

```
observeEvent(input$unit, {
  new_data <- dice_tsibble(data, period$to, input$unit, period$scale)
  plotlyReact("plot", new_data, plot, clear = input$unit == 0)
})
```

- Only parts of the `dplyr` verbs have methods for `SharedTsibbleData`. Why no `<transmute, rename, select, ...>.SharedTsibbleData`? At least you probably want to throw a warning that the `SharedTsibbleData` class is dropped with those mentioned actions.

- File `compat_purrr.R`: Why is `purrr` too heavy to depend on? It only depends on `rlang` and `magrittr` which `tsibbletalk` also depends on.
- I recommend adding a `pkgdown` website.