# A short title here

A more detailed subtitle on your story

*true*

**Abstract**

An abstract of less than 50 words.

## A main header

This is a template for X-13 stories, descriptions of seasonal adjustment issues that can be turned into pdf's or into interactive HTML stories. For a more extensive description of the approach, see our paper.

Use `h2` header (`##`) as top headers, so you can wrap several stories in a book, separating them with `h1` headers (`#`).

To initiate a new view in the interactive tool, use `x13view()`. The function takes an object of class `"seas"` as its first argment, and a chararacter string describing the view as its second. For a list of all available views, see `?series`. The function also has several options to be specific about what to show in pdf documents; these are ignored in the interactive view.

### A sub header

You can use arbitrary code in your document, which is not evaluated.

```
dput(AirPassengers)
```

You can also used math both for pdfs and and the interactive view:

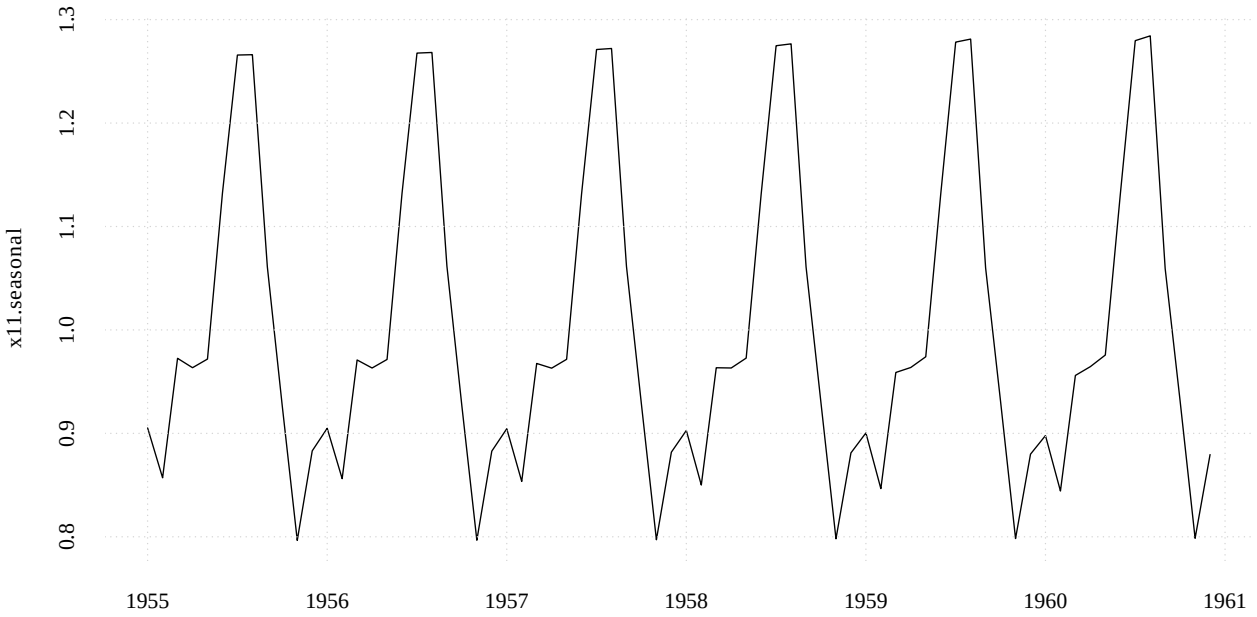
$$X_t = T_t + S_t + I_t$$

Inlined math, $E = mc^2$, is possible as well.

You can include your own data into the code. Use `dput` to transform an existing series in your workspace into R code:

| | Estimate | Std. Error | z value | Pr(>\|z\|) |
|---|---|---|---|---|
| Constant | 0.1047 | 0.0156 | 6.70 | 0.0000 |
| Mon | -0.0096 | 0.0033 | -2.91 | 0.0036 |
| Tue | -0.0055 | 0.0034 | -1.62 | 0.1057 |
| Wed | -0.0018 | 0.0034 | -0.52 | 0.6041 |
| Thu | -0.0037 | 0.0034 | -1.09 | 0.2752 |
| Fri | 0.0064 | 0.0037 | 1.74 | 0.0813 |
| Sat | -0.0034 | 0.0036 | -0.94 | 0.3457 |
| Easter[15] | 0.0308 | 0.0069 | 4.50 | 0.0000 |
| AR-Nonseasonal-01 | 0.8976 | 0.0556 | 16.15 | 0.0000 |
| AR-Seasonal-12 | -0.4426 | 0.1391 | -3.18 | 0.0015 |
| *method*: X11 adj. – *ARIMA*: (1 0 0)(1 1 0) – *Obs.*: 72 – *Transform*: log | | | | |
| *nAICc*: 443.8 – *BIC*: 461.3 – *QS*: 0 – *Box-Ljung*: 18.91 – *Shapiro*: 0.9896 | | | | |

Table 1: dfsdfsdf




Which will set up a view based on your own data.

`x13story` contains some utility functions that are useful for creating pdf's, but are of no use in the interactive view. These functions start with `pretty`:

**`prettyplot`** like `plot`, but with a more Tufte-like look, a lower ink/information ratio and a font that is adjusted to the text font (palatino, by default). `prettyplot` has a method for the `seas` objects and for `ts` objects. If multiple series are supplied, it will also automatically add a legend, which is suited for black and white printing.

**`prettymonthplot`** like `plot`, but again more Tufte-like. To be implemented.

**`prettysummary`** like `summary`, but returning a nice Latex table.

Since the following two chuncks are `echo = FALSE` they won't be shown in both the PDF and the interactive view.

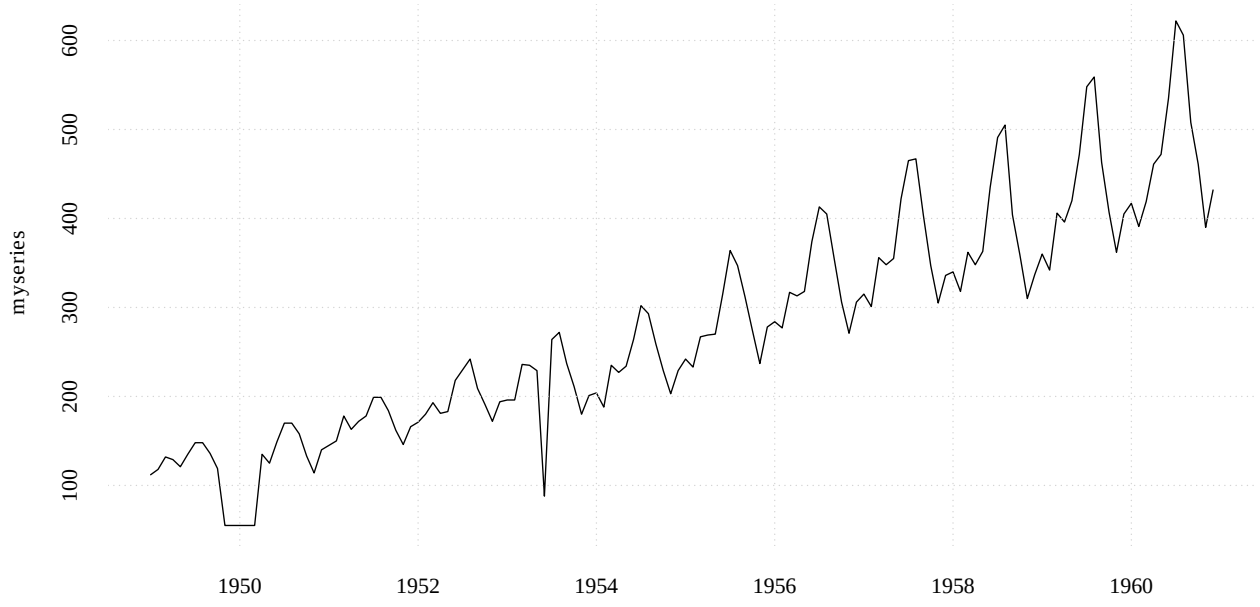



Figure 1: An example of the prettyplot function