My kids have a very popular blog (at least among their grandmothers) where they frequently post pictures from everyday's life (since they live 5000km from them), as well as pictures taken from holidays. This afternoon, I tried to used the popupImage function from the leaflet package to post pictures, on a map (to explain where we spent our holiday this summer). This post is just to keep tracks of that code.

First, we need to load the appropriate R packages

```
library(leaflet)
library(mapview)
```

Then, we take a picture, and we locate it, for instance Mirror Lake (on the trail to Lake Agnes). Since leaflet uses openstreetmap, I recommend to use it also for location (and not google maps… coordinates can be slightly different)

```
df=data.frame(lat =51.41603, long=-116.23946,
nom = "Miror Lake",photo="http://freakonometrics.free.fr/jaspeR/_DSC5967.jpg")
```

I guess you can also use the metadata if you take pictures with a cell phone, and you add the location… but I am (very) old fashioned, and still use a camera to take pictures. Then you can add a dozen pictures

```
df=rbind(df, data.frame(lat =51.4164, long=-116.2442,
nom = "Lake Agnes",photo="http://freakonometrics.free.fr/jaspeR/_DSC6003.jpg"))
df=rbind(df, data.frame(lat =51.3215642,long=-116.193718,
nom="Moraine Lake",photo="http://freakonometrics.free.fr/jaspeR/_DSC5957.jpg"))
```

From that dataframe, we need two kinds of information: the location, and the url of the picture,

```
data_df=df[,c("lat","long")]
images = as.character(df$photo)
```

Then we can create the leaflet map (sorry for typos, but wordpress converts the > symbol into some ">" characters… which makes R pipe operator hard to read)

```
m = leaflet(data_df) %>%
  addTiles() %>%
  addCircleMarkers(
    fillOpacity = 0.8, radius = 5,
    lng = ~long, lat =~lat,
    popup = popupImage(images)
  )
```

and export it (in a nice html file)

```
library(htmlwidgets)
saveWidget(m, file="jaspR.html")
```