ffbase

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Large data

Data files tend to become bigger and bigger.

ff

- Speedy access to large files
- Up to 10^9

ffbase

ffbase tries to add # What is difficult?

▶ value vs reference

```
x <- ff(0, length=10^7)
print(x[1])
f <- function(y){
   y[1] <- 1
}
f(x)
print(x[1])
```

Idiosyncratic R

- ► `with, within`
- ► `transform`
- ► `subset`

filtering

- `within`

Under the hood

chunked processing