

Finance

©Frederic Kerdraon

January 1, 2018

Contents

1 Asset Liability Management

1.1 Kapital

1.1.1 Table

History of the Kapital is available in the database (select * from kapital)

1.1.2 Graph

A graph of the kapital and not income and charges cumulated should be easy to build. Say a readKapital which would select the cash balance + all the other stuff like assets - liabilities
Better do it with Latex than with the C++

1.1.3 History

Historical graph of the kapital, liab and assets, yearly ALM management

1.1.4 Definitions

Vp: value weight (basically the value of the asset against the total value - to be replaced by InitPrice)

Rp: return weight (the return compared to the total returns)

Cp: cost weight (the maintenance cost compared to the total maintenance)

Vd: historical deprecation of value (the Value compared to the InitPrice)

R/V: monthly rentability (the return minus the maintenance)

1.1.5 Ratios

$V_p = \text{value} / \text{Totalvalue}$

$R_p = \text{return} / \text{Totalreturn}$

$C_p = \text{cost} / \text{Totalmaintenance}$

$V_d = \text{value} / \text{Initprice}$

$R/V = \text{return} / \text{Value}$

1.1.6 Formulas

$$\lim_{x \rightarrow \infty} \exp(-x) = 0$$

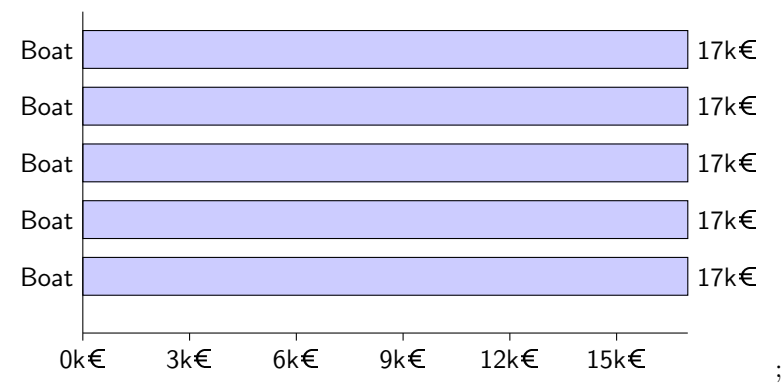
1.2 Assets

1.2.1 Data

The top 5 assets are listed sorted by value, but the totals are given for all the assets as of today

| Assets | | | | | | | | | | | |
|--------|--------------|------------|--------|--------|--------|-----------|-----|-----|-----|-----|----------|
| Type | Name | Maturity | Value | Return | Cost | InitPrice | vp | rp | mp | dv | PnL(R/V) |
| Boat | Acquisition | 2013-01-07 | 17000 | 50 | 400 | 30000 | 3 | 0 | 0 | 56 | 0 |
| Boat | Acquisition | 2013-01-07 | 17000 | 50 | 400 | 30000 | 3 | 0 | 0 | 56 | 0 |
| Boat | Acquisition | 2013-01-07 | 17000 | 50 | 400 | 30000 | 3 | 0 | 0 | 56 | 0 |
| Boat | Acquisition | 2013-01-07 | 17000 | 50 | 400 | 30000 | 3 | 0 | 0 | 56 | 0 |
| Boat | Acquisition | 2013-01-07 | 17000 | 50 | 400 | 30000 | 3 | 0 | 0 | 56 | 0 |
| ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| | Total assets | 1862080 | 468160 | 159820 | 205340 | | | | | | -45520 |

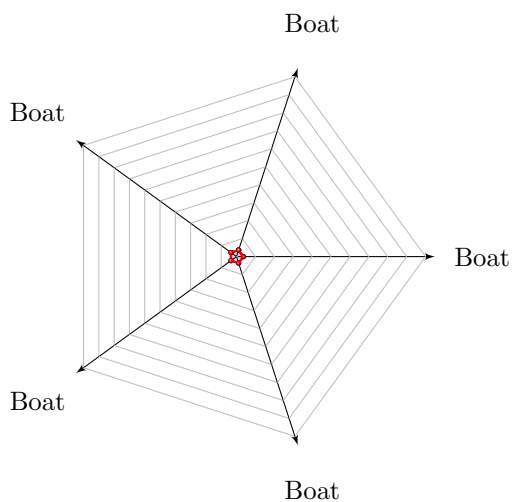
1.2.2 Graph



1.2.3 Cheese

€€€€€

1.2.4 Kiviat



Seems like the assets Cheese

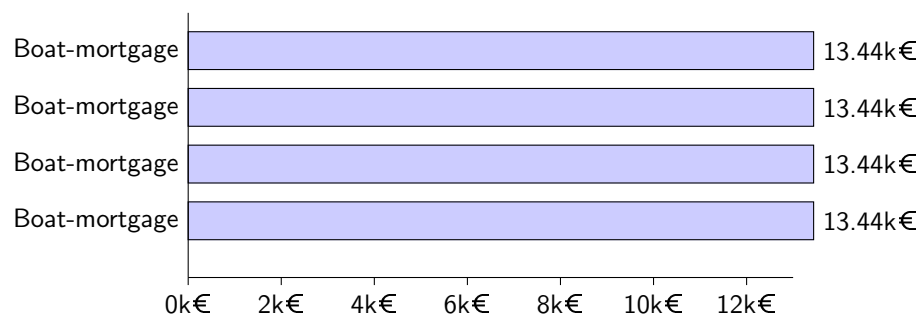
1.3 Liabilities

The top 4 liabilities are listed but the totals are given for all the liabilities

1.3.1 Table

| Liabilities | | | | | | | | | | | |
|---------------|----------|-----------|--------|--------|------|------------|-----|-----|-----|-----|-----|
| Type | Name | InitPrice | Value | Return | Cost | Maturity | vp | rp | mp | dv | PnL |
| Boat-mortgage | mortgage | 30000 | 13440 | 0 | 1 | 2013-01-07 | 2 | 0 | 1 | 44 | 0 |
| Boat-mortgage | mortgage | 30000 | 13440 | 0 | 1 | 2013-01-07 | 2 | 0 | 1 | 44 | 0 |
| Boat-mortgage | mortgage | 30000 | 13440 | 0 | 1 | 2013-01-07 | 2 | 0 | 1 | 44 | 0 |
| Boat-mortgage | mortgage | 30000 | 13440 | 0 | 1 | 2013-01-07 | 2 | 0 | 1 | 44 | 0 |
| ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| | Total | 910000 | 484540 | 0 | 80 | | | | | | -80 |

1.3.2 Graph



1.3.3 Chart

1.3.4 Cheese

€€€€

2 Cashflows

All cashflows from history are being used here

2.0.5 Table

| Cashflows | | | |
|-----------|-------|--------|--------|
| Category | Debit | Credit | PnL |
| Other | 16817 | 0 | -16817 |
| Funding | 12415 | 0 | -12415 |
| Debt | 12357 | 0 | -12357 |
| Food | 9793 | 0 | -9793 |
| Bank | 9616 | 0 | -9616 |
| Cash | 8931 | 0 | -8931 |
| Cmb | 6866 | -963 | -7829 |
| Toxics | 6857 | 0 | -6857 |
| Rent | 3318 | 0 | -3318 |
| Telephone | 1312 | 0 | -1312 |
| ... | ... | ... | ... |
| Total | 92162 | 96890 | 4728 |

2.0.6 Graph