Finance

©Frederic Kerdraon

January 2, 2017

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

Vp = value/Totalvalue
Rp = return/Totalreturn
Cp = cost/Totalmaintenance
Vd = value/Initprice
R/V = return/Value

1.1.6 Formulas

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

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

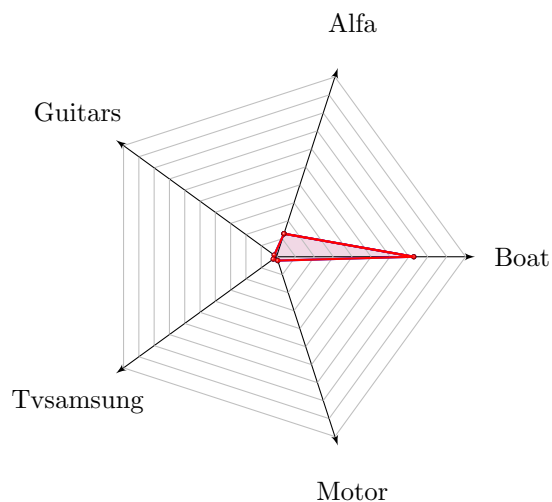| Assets											
Type	Name	Maturity	Value	Return	Cost	InitPrice	vp	rp	mp	dv	PnL(R/V)
Boat	Acquisition	2013-01-07	17000	50	400	30000	72	0	3	56	0
Alfa	Acquisition	2013-01-07	3000	0	300	7900	12	0	2	37	0
Guitars	Acquisition	2013-01-07	350	0	47	700	1	0	0	50	0
Tvsamsung	Acquisition	2013-01-07	490	0	41	600	2	0	0	81	0
Motor	Acquisition	2013-01-07	500	49	20	600	2	0	0	83	0
...	...	...	...	...	...	...	...	...	...	...	...
	Total assets	93104	23408	7991	10267						-2276

1.2.2 Graph

;
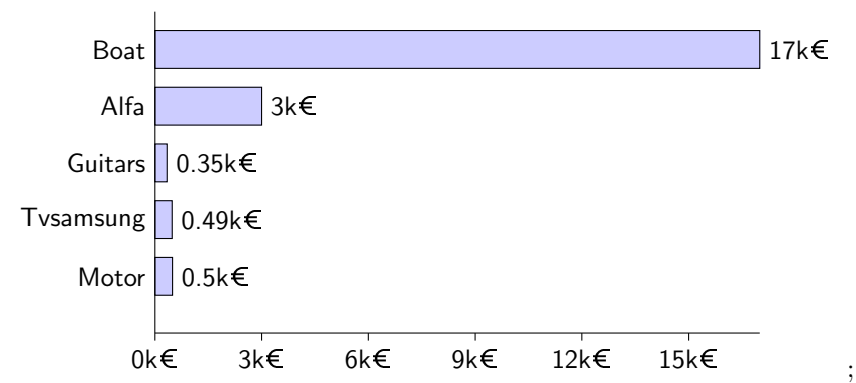
1.2.3 Cheese

€€€€€

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	55	0	25	44	0
Car-mortgage	mortgage	7000	2287	0	1	2013-01-07	9	0	25	32	0
Dad-mortgage	mortgage	5000	5000	0	1	2013-01-07	20	0	25	100	0
Mum-mortgage	mortgage	3500	3500	0	1	2013-01-07	14	0	25	100	0
...	...	...	...	...	...	...	...	...	...	...	...
	Total	45500	24227	0	4						-4

1.3.2 Graph
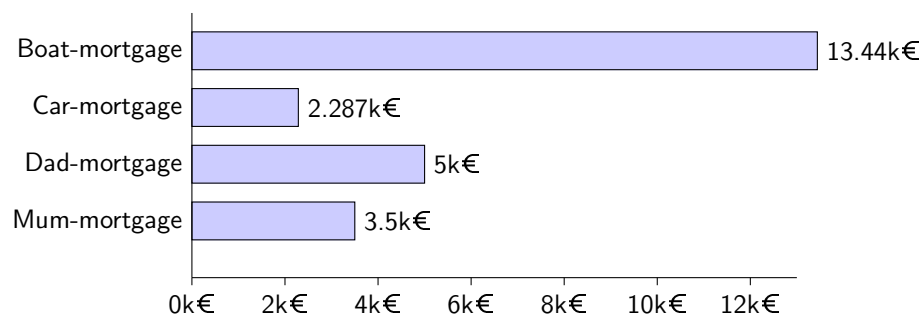
1.3.3 Chart

1.3.4 Cheese

€€€€

2 Cashflows

All cashflows from history are being used here

2.0.5 Table

Cashflows			
Category	Debit	Credit	PnL
Other	14467	0	-14467
Funding	12415	0	-12415
Debt	10321	0	-10321
Bank	8877	0	-8877
Food	8666	0	-8666
Cash	8011	0	-8011
Cmb	6866	-963	-7829
Toxics	6121	0	-6121
Rent	3120	0	-3120
Telephone	1192	0	-1192
...	...	...	...
Total	83588	89814	6226

2.0.6 Graph