

I'm not robot!

Symlfony Cheat Sheet
by Mikael Peigney (Mka56) via cheatography.com/3808/cs/821/

Resources

Symlfony Homepage - <http://symlfony.com/>
KraBundles - <http://krapbundles.com/>

Folders

app
Contains configuration, cache, logs, ...
Everything that is not the source code
src
Contains our bundles
vendor
Contains all libs we use in our project
web
Contains all "public" files, like images, CSS, javascripts. Also contains the "main controller", app.php

Bundles listers

Controller
Contains our controllers
DependencyInjection
Contains informations about our bundle
Entity
Contains our models
Form
Contains our forms
Resources
Contains config files, public files and view (Twig) files
Tests
Contains our Unit Test files

Composer

install
php - "install"
> the get Composer\Scripts\postcomposer script
"seller".
Update composer
php composer.phar self-update

Composer (cont)

Update bundles
php composer.phar update

Forms field types (cont)

entity
Creates a field with all entities from one class
countrylanguagelocaletimezone
dateclassdatetime
birthday
Same as datetime, but with more recent years
checkboxradio
file
collectionrepeated
hidden
url
url

Form generation

addField, \$type, \$options
Adds a form field, where \$field is the member. \$type is the input type and \$options the type's options
remove(\$name)
Removes the field with the given name
get(\$name)
Returns a child by name
has(\$name)
Returns whether a field with the given name exists
To be used on `<FormBuilderInterface` (typically, `Builder` from `<EntityTypeBuilder`)
Form field types
texttextarea
Standard input with type="text" or "textarea"
emailurl
Standard type="text" field with proper validation
integernumberpercent
type="text" field, with validation
money
type="text" field with currency symbol near the text
password
type="password" field
search
type="search" field
choice
Multi-value field. Can make select, radio or checkboxes

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LEVEL III SCHWESER'S QuickSheet

CRITICAL CONCEPTS FOR THE 2016 CFA® EXAM

551&2: ETHICS

Review the SchweserBasis™ and work the questions.

553: BEHAVIORAL FINANCE

- **Biased rationality** – Individuals are so rationally as possible, but are constrained by lack of knowledge and cognitive ability.
- **Satisfice** – Making a reasonable but not necessarily optimal decision.

The Traditional Finance Perspective

- **The price is right** – Asset prices reflect and accurately adjust to all available information.
- **No free lunch** – No manager should be able to generate excess returns (alpha) consistently.

Market Efficiency

- **Weak-form efficient** – Prices incorporate all past price and volume data.
- **Semi-strong form efficient** – Prices reflect all public information.
- **Strong-form efficient** – All information reflected in prices. No one can consistently earn excess returns.

THE BEHAVIORAL FINANCE PERSPECTIVE

1. **Consumption and savings**
 - **Presentism** – The *now* income is valued *higher* than income in the future.
 - **Self-control bias** – *Present* consumption is valued *higher* than saving income for future goals.
 - **Mental accounting** – Grouping different portions of wealth to meet different goals.
2. **Behavioral asset pricing**
 - **Sentiment premium** – Added to discount rate causes price deviation from fundamental value.
3. **Behavioral portfolio theory (BPT)**
 - Investors structure their portfolios in layers according to their goals.
4. **Adaptive market hypothesis (AMH)**
 - Apply theories until they no longer work, then adjust them. Must adapt to survive.

Cognitive Biases and Emotional Biases

- **Cognitive errors** – Result from incomplete information or inability to analyze.
- **Emotional biases** – Spontaneous reactions that affect how individuals use information.

Common Behavioral Biases

- **Belief Perseverance** – Stems from individuals' attempts to avoid cognitive dissonance.
- **Cognitive dissonance** – Mental conflict from information that contradicts one's beliefs.
- **Confirmation bias** – Emphasizing information used to original *hypothesis* over new data.
- **Cognitive test** – Effort to analyze new data.
- **Confirmation bias** – Seeking data to support beliefs discounting contradictory facts.
- **Representativeness bias** – If often misinterpre human need to classify new information.
- **Base rate neglect** – Too little weight on the base rate (e.g., probability of a given R).
- **Sample size neglect** – Ignoring too much from a small new sample of information.
- **Control bias** – Individuals feel they have more control over outcomes than they actually have.
- **Hindsight bias** – Perceiving actual outcomes as reasonable and expected.

COGNITIVE ERRORS: INFORMATION PROCESSING

- **Anchoring and adjustment** – Fixating on a target number once revenue has a in mind.
- **Mental accounting bias** – Each goal, and corresponding weights, is considered separately.
- **Forecasting bias** – Viewing information differently depending on how it is received.
- **Availability bias** – Future probabilities are impacted by memorable past events.

Emotional Biases

- **Loss aversion bias** – Placing more "value" on losses than on a gain of the same magnitude.
- **House money effect** – Low risk, nervous when receiving profits versus original assets.
- **Myopic loss aversion** – Focus on the short run, estimating risk using recent performance.
- **Overconfidence bias** – Illusion of having superior information or ability to interpret.
- **Prediction overconfidence** – Leads to setting confidence intervals too narrow.
- **Certainty overconfidence** – Overstated probability of success.
- **Self-attribution bias** – Self-enhancing bias plus self-perceiving that causes overconfidence.
- **Self-enhancing bias** – Individuals take all the credit for their successes.
- **Self-promoting bias** – Placing the blame for failure on someone or something else.
- **Self-control bias** – Suboptimal savings due to focus on short-term over long-term goals.
- **Status quo bias** – Individuals' tendency to stay in their current investments.
- **Endowment bias** – Valuing an asset already held higher (than if it were not already held).
- **Regret-aversion bias** – Regret can arise from taking or not taking action.
- **Errors of commission** – Focus on action taken.
- **Errors of omission** – Focus on taking action.

INVESTMENT POLICY AND ASSET ALLOCATION

- **Goal-based investing** – Building a portfolio in layers, prioritizing up from low-risk goals.
- **Behaviorally modified asset allocation** – Constructing a portfolio according to investor's behavioral preferences.
- **Standard of living risk** – If low, greater ability to accommodate behavioral biases.

Behavioral biases in DC plan participants

- **Status quo bias** – Investors make no changes to their initial asset allocations.
- **Name discrimination** – Un allocation.
- **Disposition effect** – Sell winners, hold losers.
- **Home bias** – Placing a high proportion of assets in stocks of firms in their own country.
- **Mental accounting** – For mental accounting bias.
- **Gambler's Fallacy** – Wrongly predicting reversal to the mean.
- **Social proof bias** – Following the beliefs of a group (e.g., "herd mentality").

Market anomalies

- **Momentum effect** – Return patterns caused by investors following others' lead ("herding").
- **Financial bubbles and crashes** – Unusual returns caused by irrational buying or selling.
- **Value vs. growth stocks** – Value tends to outperform growth and the market in general.

554: PRIVATE WEALTH (1)

IPS Objectives and Constraints: Individuals

- **RATTLERS** risk, return, time horizon, taxes, liquidity, legal/regulatory, unique circumstances.
- **Risk Tolerance** – Willingness, ability, overall.
- **Willingness** determined by psychological factors. Ability determined by size of portfolio in relation to monetary goals and time horizon. Overall: If willingness is low, then ability, basic willingness. If willingness is greater than ability, basic ability and suggest investor education to reconcile.
- **Return Objective** – Minimum return required to meet client's objectives. TVM or one-year calculation.

Constraints

- **Time horizon** – Usually in least two stages, pre-retirement and retirement. A stage is determined by a need to adjust the IPS.
- **Taxes** – Individuals must always consider taxes.
- **Liquidity** – Spending needs met by the portfolio.
- **Legal and regulatory** – Individuals have minimal (ADR) concerns, unless trusts are involved. Can always recommend legal counsel.
- **Unique circumstances** – Avoid a certain class of security in industry, large holding of stock, etc.

Taxes and Private Wealth Management

Future Accumulation Formula (deferred)

Annual account variation: $FVIF_{t,n} = (1 + r)^t - 1$

Deferred capital gains taxation:

$$FVIF_{t,n} = (1 + r)^t - 1 + \frac{1}{n} \times \frac{1}{n}$$

B = cost basis / asset value at start of period

Annual wealth variation: $FVIF_{t,n} = (1 + R)^t - 1$

Annual return after taxes on interest, dividends, and capital gains:

$$R^* = R(1 - \theta) + R_d + R_c(1 - \theta) + R_g(1 - \theta)$$

Effective capital gains tax rate:

$$T_{eff} = \frac{R - R_d}{R - R_c} \times (1 - \theta)$$

FVIF_{t,n} = (1 + R^{})^t - 1*

Annual Equivalent After-Tax Return (Return that produces the same terminal value as the taxable portfolio)

$$R_{eq} = (FVIF_{t,n} / \text{initial investment})^{1/t} - 1 + (1 - T_{eff})$$

Annual Equivalent Tax Rate

$$T_{eq} = 1 - R_{eq} / R$$

Use overall effective tax

- **At the holding period T, T_{eq} = 1 - (1 + R^{*})^t / (1 + R^{*})^t**
- **Use Long TR = tax rate**
- **Investment horizon T, use drag 1**
- **Investment return T, use drag 1**
- **Use different Assumptions for end benefits, growth, debt, current taxes, income tax free, need in future.**

TTDA: FVIF_{t,n} = (1 + R^{*})^t

Use simple account: Backward benefits. Growth, make after-tax, income tax free, tax free in future.

$$FVIF_{t,n} = (1 + R^*)^t$$

If R₁ > T_{eq} → FVIF_{t,n} + FVIF_{t,n}

Assumptions: After-tax bid. One of Return: R(1 - r).

Estate Planning

Calculating net capital

Prob (own survival) = Prob (husband survival) + Prob (wife survival)

Prob (husband survival) + Prob (wife survival)

1

Logic,
Meaning,
and
Conversation

Semantical Underdeterminacy,
Implicature, and Their Interface

JAY DAVID ATLAS

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