



## Module 2

# **abaCal – EDITOR AND FORMULA CALCULATOR**

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**How to get to know the editor and its environment**

**First steps into abaCal**

**Create the first formula in abaCal**

**with the public formula library**

## The Editor is the heart of abaCal

### Learning goals

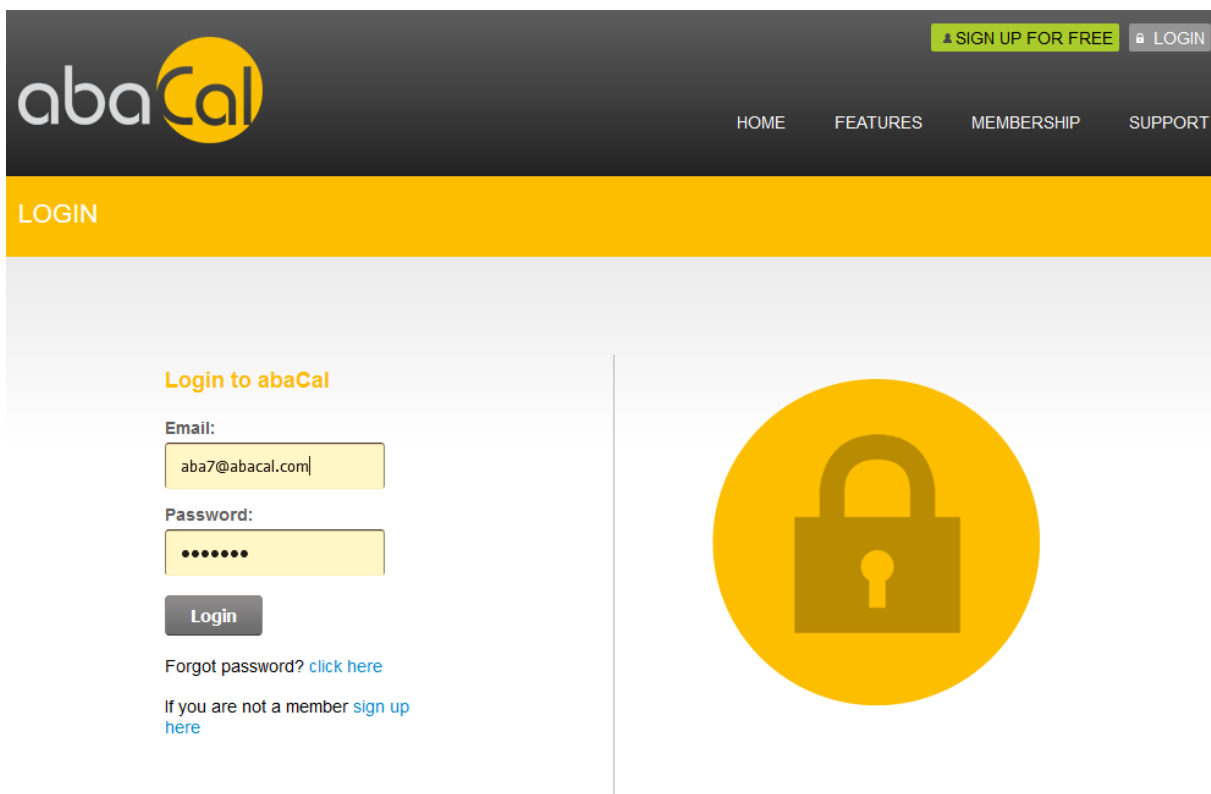
In this video/document, the “Editor and Formula Calculator” is presented in more detail and recorded how formulas from the Public Formula Library are best found for personal use.

This is the login page for abaCal (<https://my.abacal.com/LoginLight.po>). You have to register beforehand so that you can get started with your own email address and password.

Test-Login: <https://my.abacal.com/LoginLight.po>

Email: aba7@abacal.com

Password: Module2



The screenshot shows the login page for abaCal. At the top, there is a navigation bar with the abaCal logo on the left, and links for HOME, FEATURES, MEMBERSHIP, and SUPPORT on the right. In the top right corner, there are buttons for 'SIGN UP FOR FREE' and 'LOGIN'. Below the navigation bar is a yellow header with the word 'LOGIN'. The main content area is light gray and contains a login form on the left and a large yellow padlock icon on the right. The login form is titled 'Login to abaCal' and includes fields for 'Email:' (containing 'aba7@abacal.com') and 'Password:' (containing six dots). Below the password field is a 'Login' button. At the bottom of the form, there are links for 'Forgot password? click here' and 'If you are not a member sign up here'.

If you start with abaCal, it looks like this. At the beginning you have few formulas in the account and over time the account with formulas becomes fuller.

SEARCH

<input type="checkbox"/>	Name ▲	Description	Category	Subcategory	Created on
<input type="checkbox"/>	<b>ELECTRICALPOWER</b>	Energy of the direct current power	Engineering	Electrical engineering	26.05.2020
<input type="checkbox"/>	<b>PYTHAGORAS</b>	Law of Pythagoras for a right-angle triangle	Mathematics	Geometry	26.05.2020

Account with more formulas:

SEARCH

<input type="checkbox"/>	Name ▲	Description	Category	Subcategory	Created on
<input type="checkbox"/>	<b>AALINEAR2</b>	Linear with Example	Mathematics	Algebra	10.11.2018
<input type="checkbox"/>	<b>ACCEL MOTION</b>	motion with constant acceleration	Physics	Classical mechanics	20.10.2018
<input type="checkbox"/>	<b>ACCELERATION</b>	motion with constant acceleration	Physics	Kinematics	10.11.2018
<input type="checkbox"/>	<b>ACCRUED INTEREST</b>	Accrued Interest Calculation	Banking and Finance	Interest calculation	12.11.2018
<input type="checkbox"/>	<b>AGEPENFUND</b>	* Age at the calculation date	Insurance	Pensionfunds	20.10.2018
<input type="checkbox"/>	<b>AGHBVG</b>	Altersguthaben gemäss BVG	Insurance	Swiss Pensionfunds	20.10.2018
<input type="checkbox"/>	<b>AGHMITZINS</b>	* BVG Altersguthaben verzinst bis S	Insurance	Swiss Collective life	05.11.2018
<input type="checkbox"/>	<b>AGHOHNZINS</b>	* BVG Altersguthaben ohne Zins bis S	Insurance	Swiss Collective life	05.11.2018
<input type="checkbox"/>	<b>AGHPROJIZIERT</b>	* Altersguthaben projiziert mit und ohne Zins	Insurance	Swiss Pensionfunds	20.10.2018
<input type="checkbox"/>	<b>AGHPROJIZIERTERWEITERT</b>	* AGH projiziert mit/ohne Zins * Umwandlungssatz	Insurance	Swiss Pensionfunds	05.11.2018
<input type="checkbox"/>	<b>ALTERPK</b>	* Alter der Person am Berechnungsdatum	Insurance	Swiss Pensionfunds	20.10.2018
<input type="checkbox"/>	<b>AMORTISATION</b>	Amortisationsrechnung	Banking and Finance	Interest calculation	30.11.2018
<input type="checkbox"/>	<b>ANDLER</b>	Andler formula, optimized order lot	Engineering	Logistics	11.11.2018
<input type="checkbox"/>	<b>ANGULAR VELOCITY</b>	circular motion	Physics	Kinematics	20.10.2018

# Formula editor and formula calculator

The formulas are developed and also calculated in the editor. On the left in the editor there are different menus like

- **Settings**
- **Public formula library**
- **Personal Library (personal account)**
  - your personal formulas are here stored
- **Exchange Platform**
- **Guide / Documents**
- **Video**

In this function, your own private formula account is set up. It is called up and managed with "my Formulas". All your own formulas are saved and calculated here. No third party can penetrate this area because it is blocked for others.

On the right side of the editor we have various libraries that help develop formulas faster and more precisely. They are:

**Standardvariables, My Variables and Constants.**

You can view these 3 libraries in the menu **"Guide / Documents"** on the left.

With **"Tips for syntax"** you can simplify the formula writing.

## Development of new formulas

You can create a new formula in two ways.

1. You can search for a suitable formula in the Public Formula Library and adapt it accordingly.
2. You can create a new formula.

**Settings**

User profile  
Upgrade your account

**Business profile**  
Upgrade your business account

**Public Library**

Public Formula Library













**Personal Library**

My Formulas  
My Variables  
My Tables

### All formulas

You can import any formula into your environment by clicking on "import" next to the formula you want.

Search:

Actions	Formula	Description
 	CONVECTION	convection
 	E_SOLAR	total solar energy
 	ELECTRICALPOWER	Energy of the direct current power
 	POWER PV	power output
 	Q_ABSORBED	absorbed emergy
 	Q_EMITTED	emitted energy

## Select formula from the public formula library

To find a suitable formula in the Public Formula Library, you have to enter a suitable search term and abaCal suggests the formulas that have saved the search term. With the search term "power" abaCal proposes **6 formulas**. You can take a closer look at the formula and then choose one that can then be imported into the account.

We now choose the **E\_SOLAR** formula and we import it in our account.

The second type: creating a new formula myself, I will introduce in more detail in Module 3.

## Registration / trial run

Before we get into abaCal, I have to mention that only registered people can get into the heart of abaCal. I offer everyone free registration and free use for 2 months. During this time it is possible to get to know abaCal very well.

I would like to thank you for your attention. Until next time. Bye.