

Desktop Development



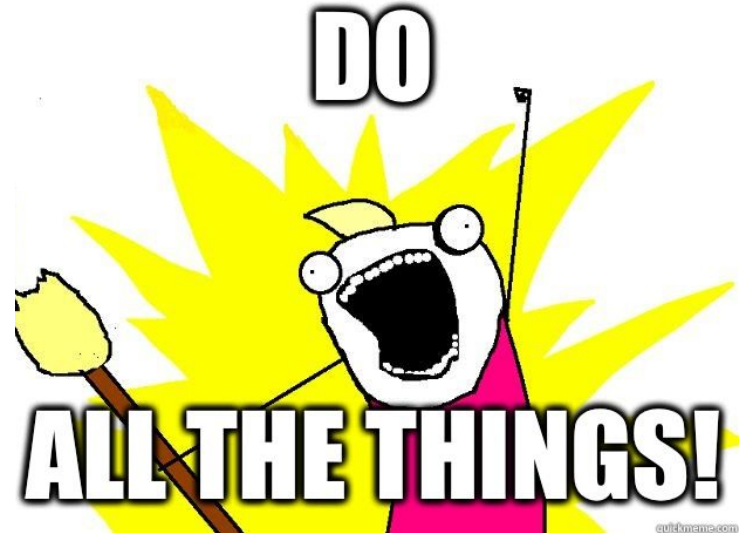
My First Open Source Projekt

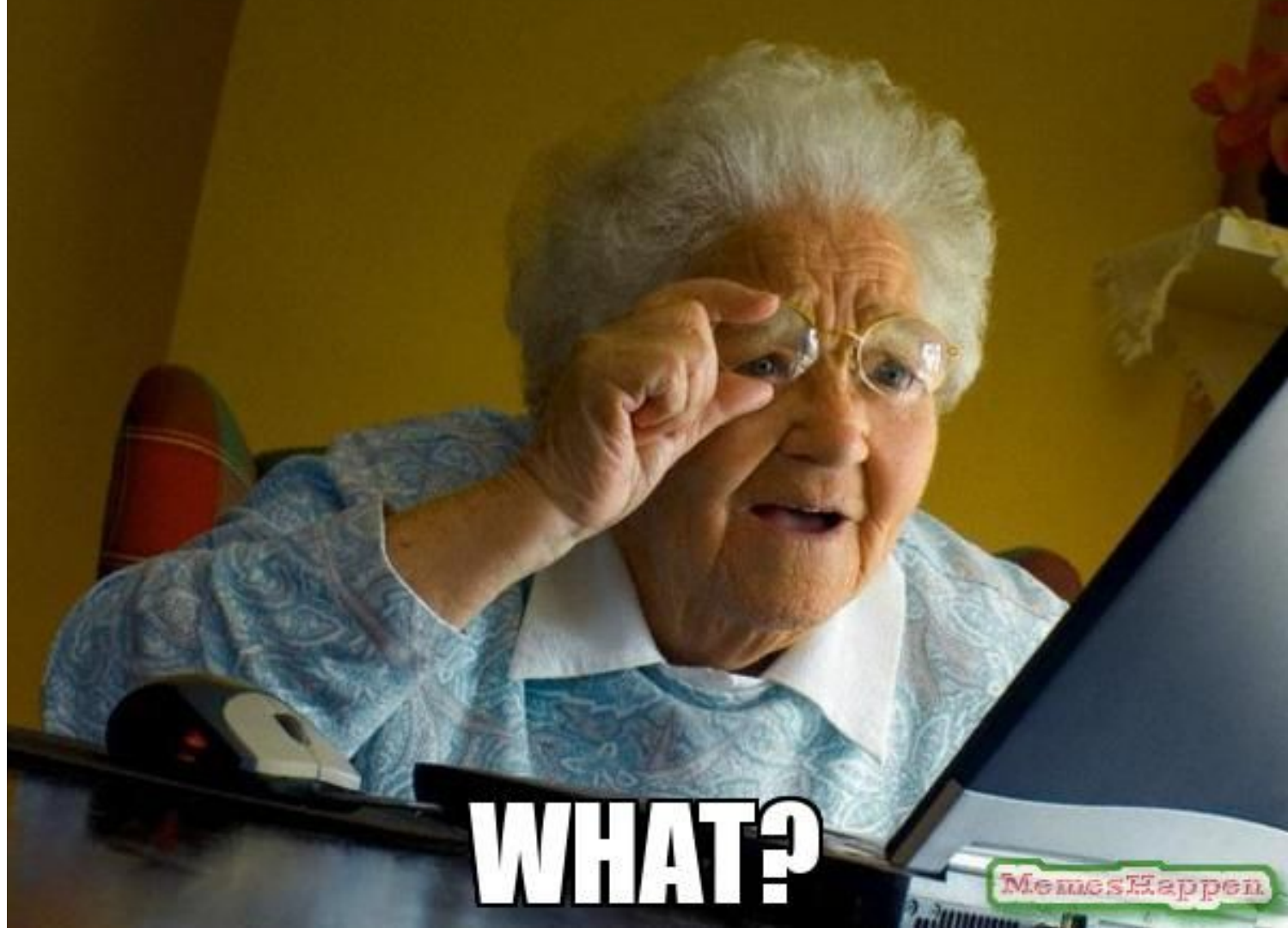
Focus of the talk

- What is so special about Desktop Development?
- My Project vs. Programming Language / IDE

Bucket List

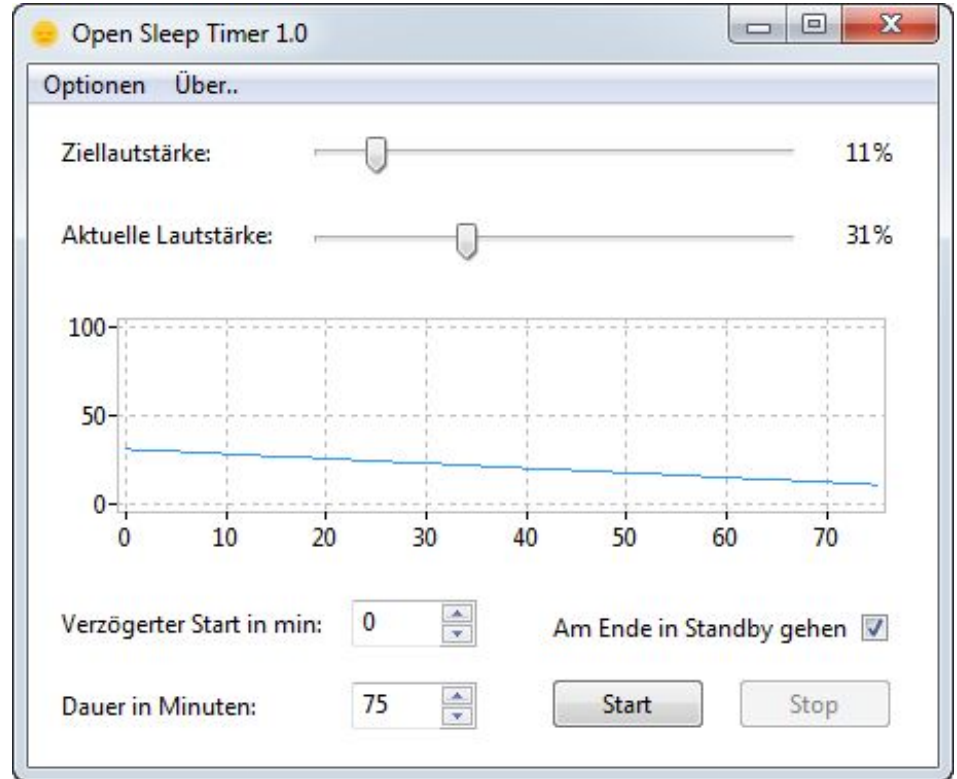
- *What?*
- *Name / Logo*
- *License*
- *Code Repository*
- *Projekt Plan*
- Language / IDE
- Multi-Language
- Cross-Platform
- Distribution
- Installer
- Code Signing



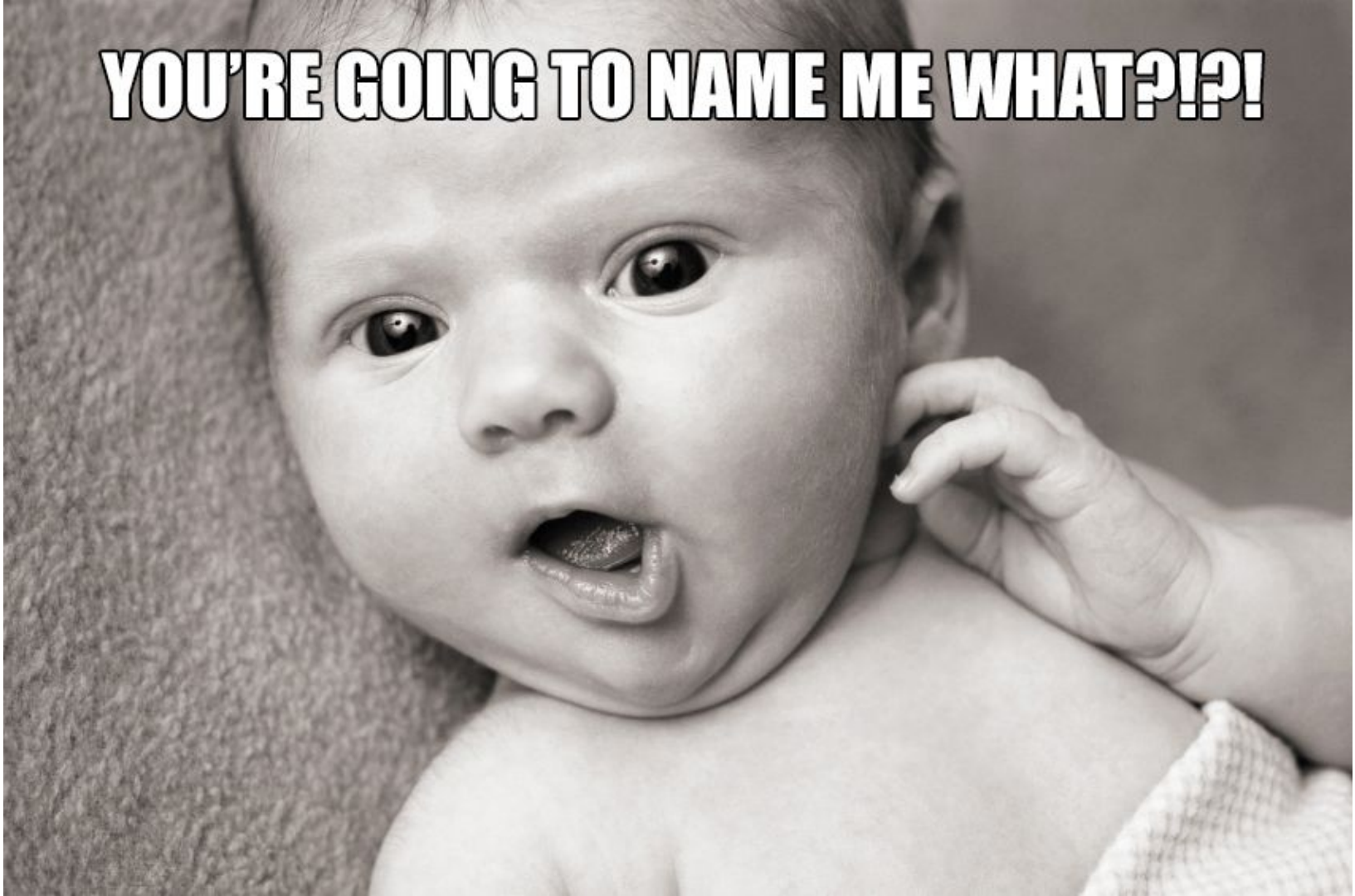


What?

- actually useful
- Alternatives are closed source, not for your platform, do not exist yet or suck
- Want to use it myself



YOU'RE GOING TO NAME ME WHAT?!?!?



Logo: icons8.com

All the Icons You Need. Guaranteed.

No doubt, we have [social media icons](#) like [Facebook](#), [Twitter](#), and [Youtube](#). Surely, we have basic ones like [phone](#), [home](#), and [settings](#). However, if you are up for something more unorthodox, simply [request it](#). No charge. Guaranteed.

Most Popular

Business

City

Clothing

Food

Holidays

View all...



**EVERY OPEN SOURCE
PROJECT**

NEEDS A LICENSE.

Choosing a License (Licence?)

- MIT
- BSD
- GPL
- GPL 2
- GPL 3
- LGPL
- Apache

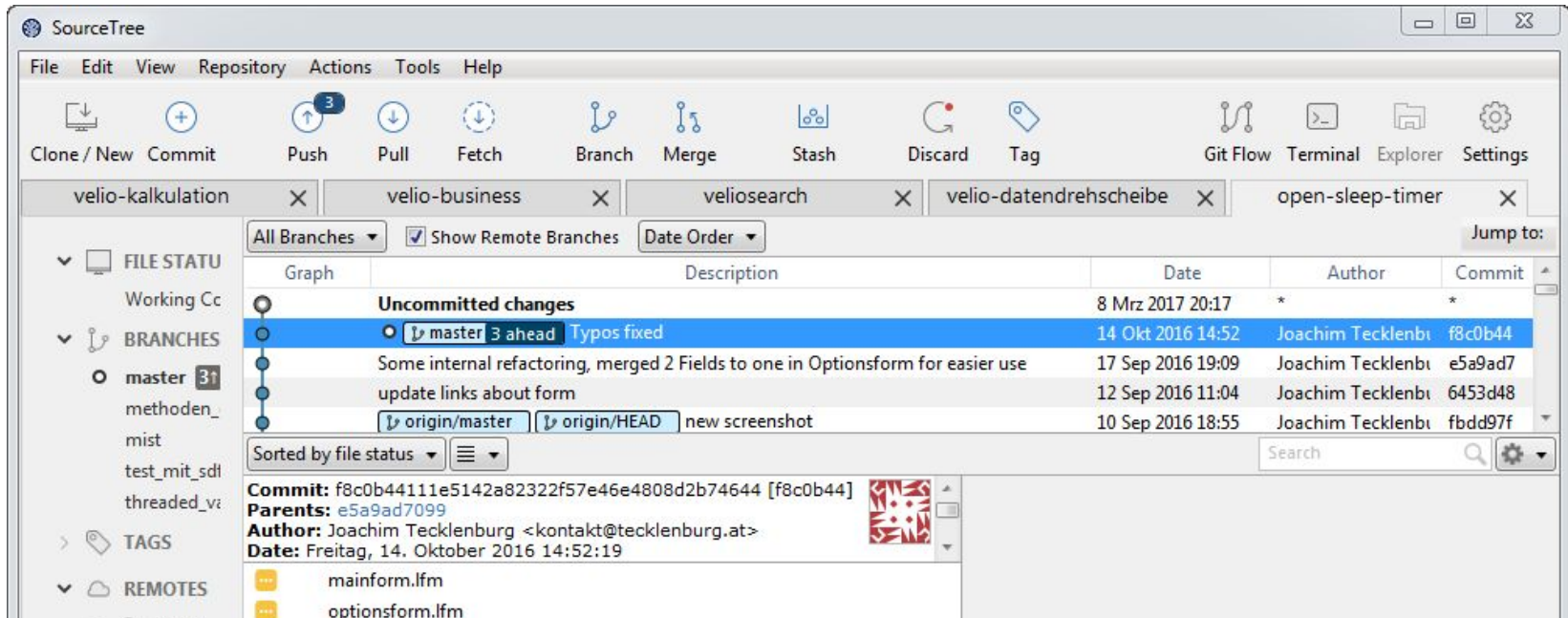
**I DON'T ALWAYS USE
VERSION CONTROL**



**BUT WHEN I
DO, I USE GIT**

Version Control System

- Also confusing
- Git, Mercurial, Github, Bitbucket, Gitlab?



**WHAT IF I NEED A KANBAN
BOARD**

**TO MANAGE ALL MY KANBAN
BOARDS**

Projekt Plan: Trello

The screenshot shows a Trello board for a project named "Open Sleep Timer". The board is organized into four columns: "Planned Features", "Doing", "Done", and "Bugs". Each column contains a list of tasks or features, with some items having expandable details indicated by a three-line menu icon.

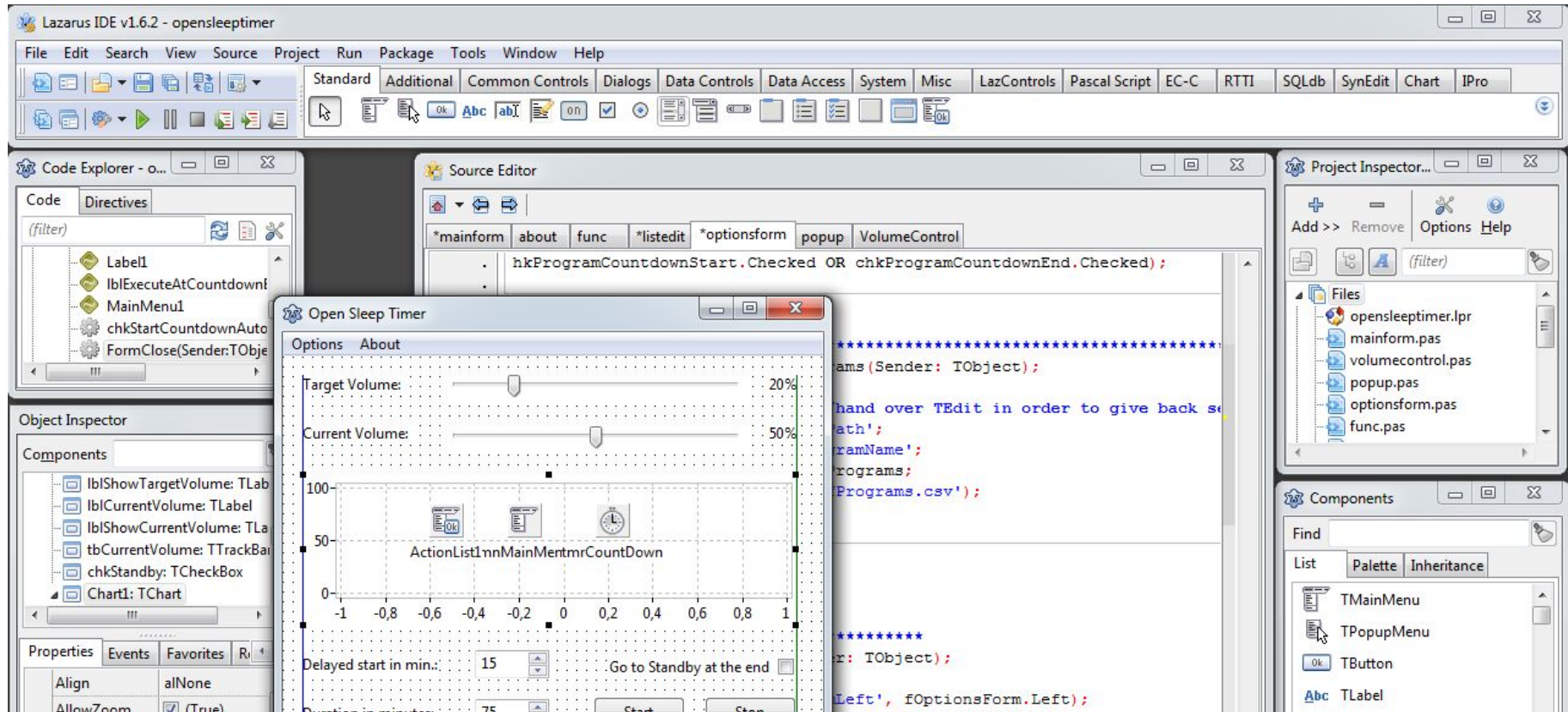
Open Sleep Timer ☆ ⓘ Public

- Planned Features**
 - Upload to chip.de, cnet
 - Test on Windows XP, Vista
 - More Languages
 - Option for Language selection
 - enable absolute times, e.g. "start at 08:45"
 - option to disable audio - use only timer
 - nicer ui elements
 - options
 - Version for Mac OS X
- Doing**
 - new look
 - Add a card...
- Done**
 - optionsform: if I have a program in "start at countdown start", but then delete it from the list, its not updated.
 - release
 - 5/8
 - "About" - page
 - put innosetup in version control
 - Configurable actions at start / timeout
 - show popup only when stopped by itself
 - configurable actions at program startup
- Bugs**
 - Add a card...

IDE?

**NAH, I GOT
NOTEPAD**

Language / IDE: Lazarus & Pascal

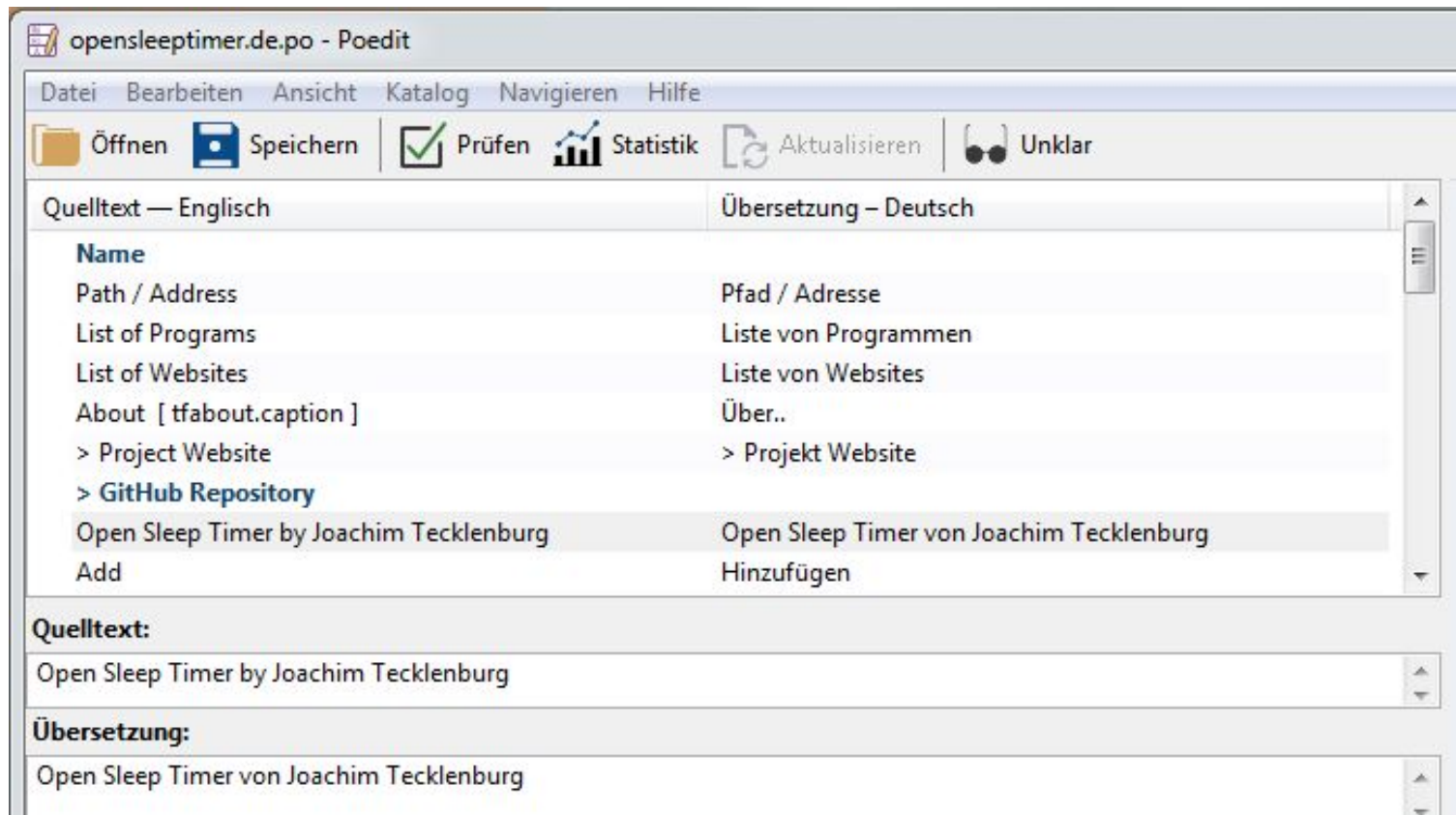


**DOES KNOWING MULTIPLE
PROGRAMMING LANGUAGES**



**MAKE YOU
MULTILINGUAL?**

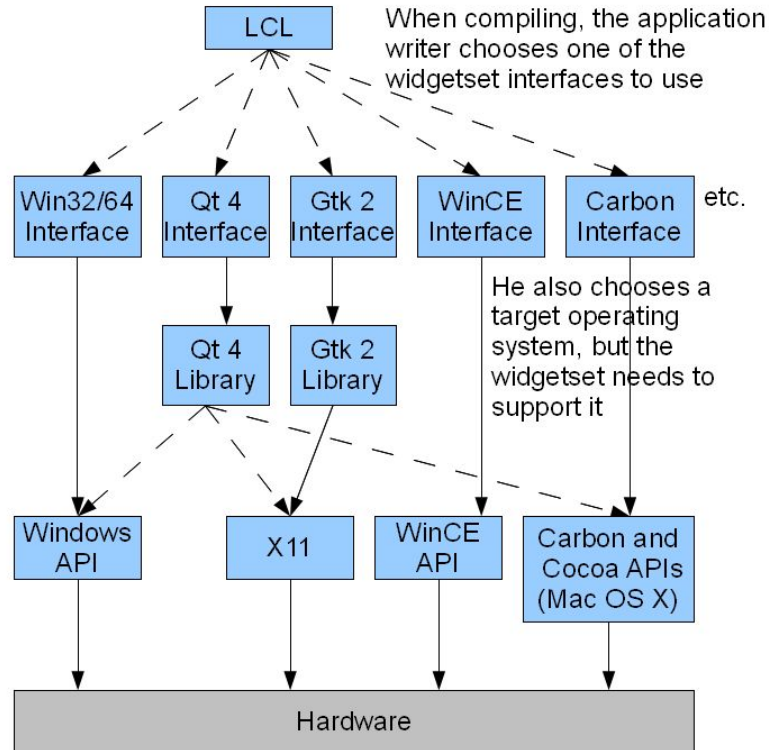
Multilanguage: PO-Files



CROSS-PLATFORM



Cross-Platform: Mac, Windows, Linux



Compiler Directives

```
.
. //Start Button
. //*****
275 procedure TfMainform.btnStartClick(Sender: TObject);
. var
.     s: String;
.     bWebsiteAtStartEnabled: Boolean;
.     bProgramAtStartEnabled: Boolean;
280 begin
.     {$IFDEF Windows}
.     dVolumeLevelAtStart := VolumeControl.GetMasterVolum
.     {$ENDIF}
284     dPreviousVolume := dVolumeLevelAtStart;
285     iMinutesLapsed := 0;
.     bWebsiteAtStartEnabled := func.readConfig('options'
.     bProgramAtStartEnabled := func.readConfig('options'
.
.     //if testmode -> faster countdown
290     if bTestMode = true then
.         tmrCountDown.Interval := 1000;
```

**THE PRODUCT IS
FINE**

**IT'S THE DISTRIBUTION
THAT'S THE PROBLEM**

Distribution

- Github Page
- My own Website
- Softonic, Chip.de, etc.

Open Sleep Timer

Secure | <https://tecklenburg.at/opensleeptimer/>

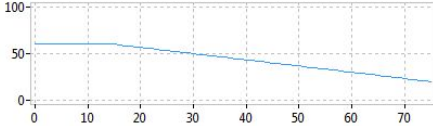
Open Sleep Timer

Open Sleep Timer 1.0

Optionen Über..

Ziellautstärke: 20%

Aktuelle Lautstärke: 60%



Verzögerter Start in min: 15

Am Ende in Standby gehen ☐

Dauer in Minuten: 75

Start

Stop

Open Sleep Timer hilft beim Einschlafen mit dem Computer. Egal was man abspielt, die Lautstärke wird sanft runtergefahren und der Computer am Ende in den Standby geschickt.

Das Programm erlaubt auch während des Countdown die Systemlautstärke zu verstellen und passt sich dynamisch an.

Download

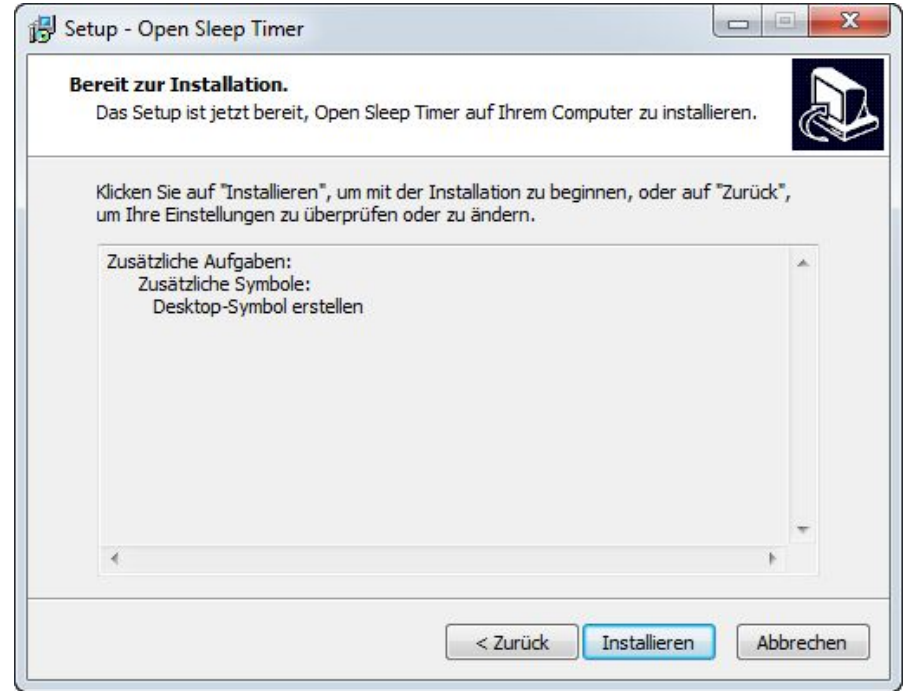
Aktuelle Version 1.0 (für Windows): [Download](#)

**YO DAWG I HEARD YOU LIKE
INSTALLERS**

**SO I PUT AN INSTALLER IN YOUR
INSTALLER TO INSTALL YOUR INSTALLER**

Installer: Innosetup

- Open Source
- Used by many Projects
- “Easy” to use



Innosetup config

```
#define MyAppName "Open Sleep Timer"
#define MyAppVersion "1.0"
#define MyAppPublisher "Joachim Tecklenburg"
#define MyAppURL "http://tecklenburg.at/opensleeptimer"
#define MyAppExeName "opensleeptimer.exe"
```

[Setup]

```
; NOTE: The value of AppId uniquely identifies this application.
; Do not use the same AppId value in installers for other applications.
; (To generate a new GUID, click Tools | Generate GUID inside the IDE.)
AppId={ {9663B9EA-DEE2-4BB6-A2E5-7B1B655532DB} }
AppName={#MyAppName}
AppVersion={#MyAppVersion}
;AppVerName={#MyAppName} {#MyAppVersion}
AppPublisher={#MyAppPublisher}
AppPublisherURL={#MyAppURL}
AppSupportURL={#MyAppURL}
AppUpdatesURL={#MyAppURL}
DefaultDirName={pf}\opensleeptimer
DisableProgramGroupPage=yes
OutputDir=C:\Users\User\TECKLENBURG-PC\innosetup
OutputBaseFilename=opensleeptimer-setup
Compression=lzma
SolidCompression=yes
```

[Languages]

```
Name: "english"; MessagesFile: "compiler:Default.isl"
Name: "german"; MessagesFile: "compiler:Languages\German.isl"
```

[Tasks]

```
Name: "desktopicon"; Description: "{cm:CreateDesktopIcon}"; GroupDescription: "{cm:AdditionalIcons}"; Flags: unchecked
Name: "quicklaunchicon"; Description: "{cm:CreateQuickLaunchIcon}"; GroupDescription: "{cm:AdditionalIcons}"; Flags: unchecked; C
```

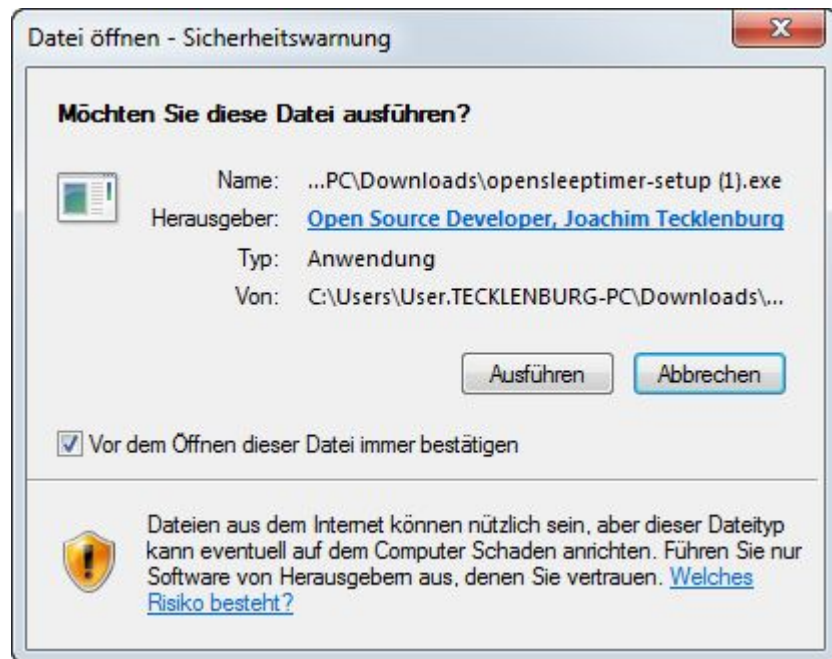
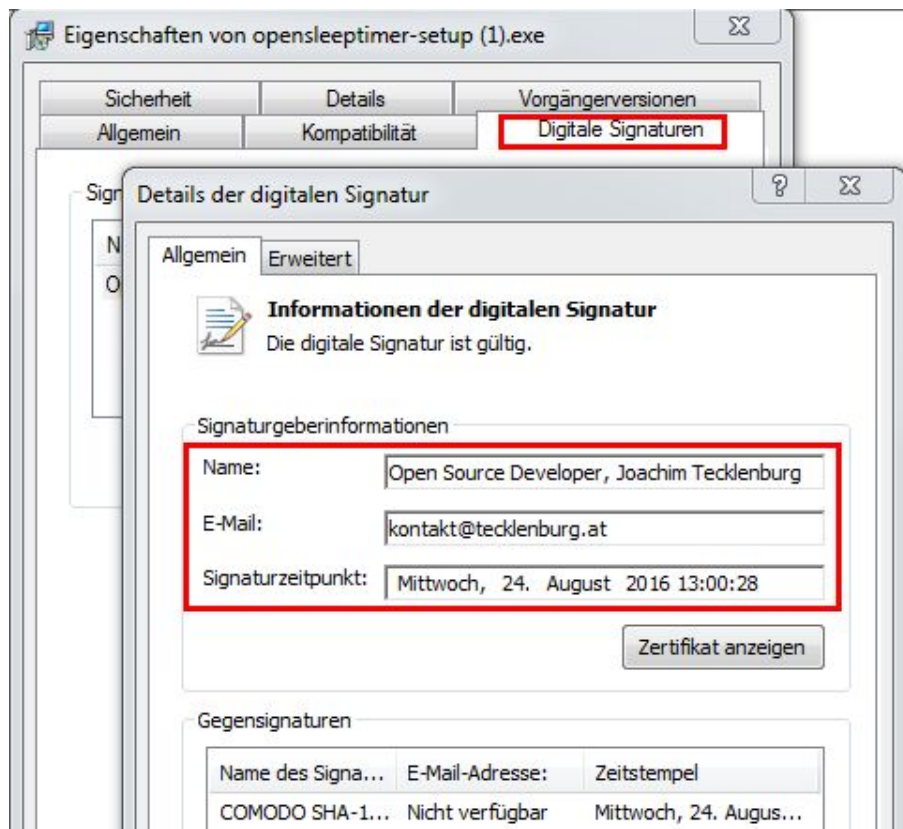
[Files]

```
Source: "C:\Users\User\TECKLENBURG-PC\Documents\Bitbucket\open-sleep-timer\opensleeptimer.exe"; DestDir: "{app}"; Flags: ignoreve
Source: "C:\Users\User\TECKLENBURG-PC\Documents\Bitbucket\open-sleep-timer\locale\*"; DestDir: "{app}\"; Flags: ignoreversion, ncu
```

**ONE DOES NOT
SIMPLY**

SIGN CODE

Code Signing: certum.pl



DON'T CRY BECAUSE IT'S OVER

SMILE BECAUSE IT HAPPENED