System - PHP Framework

von Ulf Gebhardt

15. Februar 2016

Inhalt

Was ist ein Framework

Middleware

„Middleware ist eine zusätzliche Schicht zwischen Betriebssystem und Anwendungen.“ Wikipedia

Aufgaben und Funktion einer Middleware

- Versteckt komplizierte Systeme
- Bietet einfache Schnittstellen
- Modularisierung von Software
- Konkreter und beschränkter Anwendungsbereich

Alternative PHP-Frameworks

Zend Framework

http://framework.zend.com/

Laravel

https://laravel.com/

Symphony

http://symfony.com/

System - PHP Framework

Anwendungsbereich von System

System kann in PHP-basierten Anwendungen eingesetzt werden.

- Websites
- Webtools
- Webapps

Features von System

System vereichfacht die Entwicklung von PHP basierten Anwendungen

- Kapselung
- REST Schnittstelle
- Moderne Webtechnologien
- Utilities
- Modulare GUI für administrative Aufgaben

Teilintegration möglich

Klassische Struktur von PHP Projekten

Die klassische Struktur von PHP Projekten orientiert sich oft an der HTML Struktur.

```php
<?php
$something = "classname";
$ip = "127.0.0.1";
$port = "8080";
?>
<!-- This works -->
<p>Your IP: <?php echo $ip.":".$port?></p>

<!-- This doesn't work -->
<p class="<?php echo $something?>">Hello</p>
<p class="<?=$something?>">Hello</p>
<span data-ip="<?php echo $ip.":".$port?>">Click here</span>
```

Klassische Struktur von PHP Projekten - Nachteile

- HTML Code ist unübersichtlich
- Programm ist eine Datei, zerteilt in Abschnitte
- Definitionen in anderen Abschnitten des Programms
- Spezialwissen notwendig für die Wartung

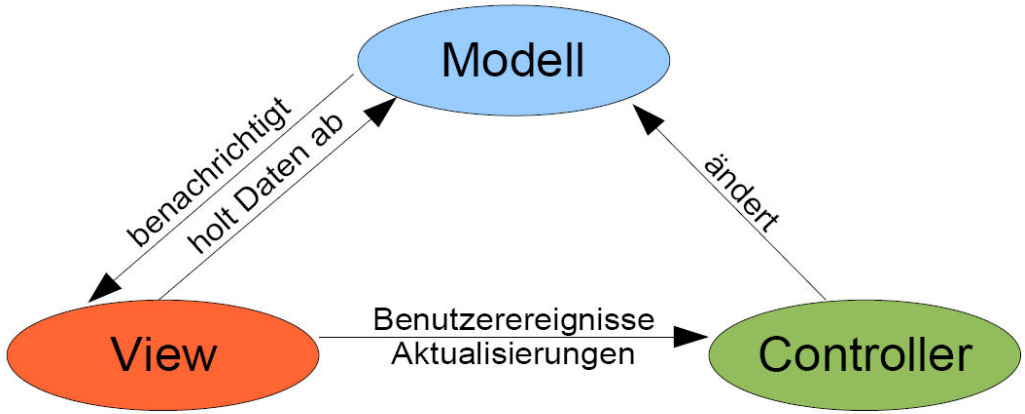
Kapselung in System

Eine Gute Kapselung vereinfacht die Übersicht über das Programm.

- nach Sprache
- nach Art der Rückgabe (Website/Daten/Administratives)
- Nach Sinneinheit (Seiten/Module)

Kapselung nach Sprache - MVC-Modell

Der Begriff model view controller (MVC) ist ein Muster zur Strukturierung von Software-Entwicklung in die drei Einheiten Datenmodell, Präsentation und Programmsteuerung. (wikipedia)



Kapselung nach Sprache

Die Kapselung nach Sprache implementiert ein MVC-Modell

MVC durch Kapselung nach Sprache

- PHP (Controller Server)
- SQL (Model)
- JS (Controller Client)
- CSS (View)
- HTML (View)

Kapselung nach Art der Rückgabe

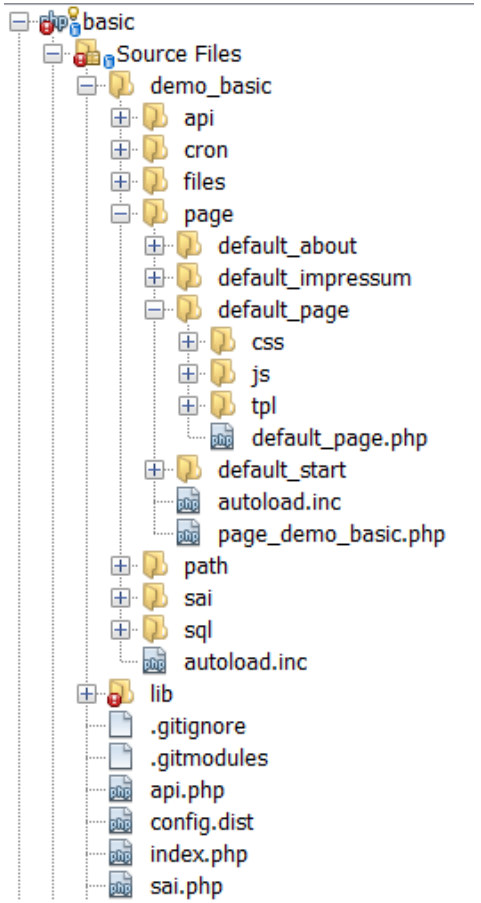
Endpoints Kapseln die Rückgabe

- index.php - Webpages/HTML Rückgabe
- api.php - JSON-Daten/Steueranweisungen
- sai.php - Administrative Aufgaben
- (setup.php - Install Scripts)

Kapselung nach Sinneinheit

- Ordnerstrukturen ordnen den Code
- Modulare Schnittstellen - pages, sai module
- Frei wählbar

Das PHP-Feature “autoload” ermöglicht es Klassen bei Bedarf nachzuladen.



REST in System - quality APIs

Funktion

- Mapping von URL-Parametern auf Funktionsnamen
- Regeln definiert zulässige Aufrufe
- Parameter-Typ-Prüfung

Nutzen

- Sicherheit
- Zuverlässigkeit
- Persistenz

Moderne Webtechnologien, von System unterstützt

- Hashbang Crawling-Scheme - #!adresse
- JQuery & Bootstrap
- SCSS(SASS)
- Minify
- Git

Utilities von System

- Simples Template System - ${var}
- Verstecke Server Struktur - Dateien bereitstellen, Cache
- Erweiterbare Configuration
- Cron Job Verarbeitung
- Rudimentäres Documentations-System
- Library Schnittstelle - bindet php,js,css
- Log - Überall, Gekapselt, Zentral verwaltet
- Security, Nutzerverwaltung
- Erweiterbares Installations-Script

Codebeispiel - Template System

default_page.tpl

Source | History

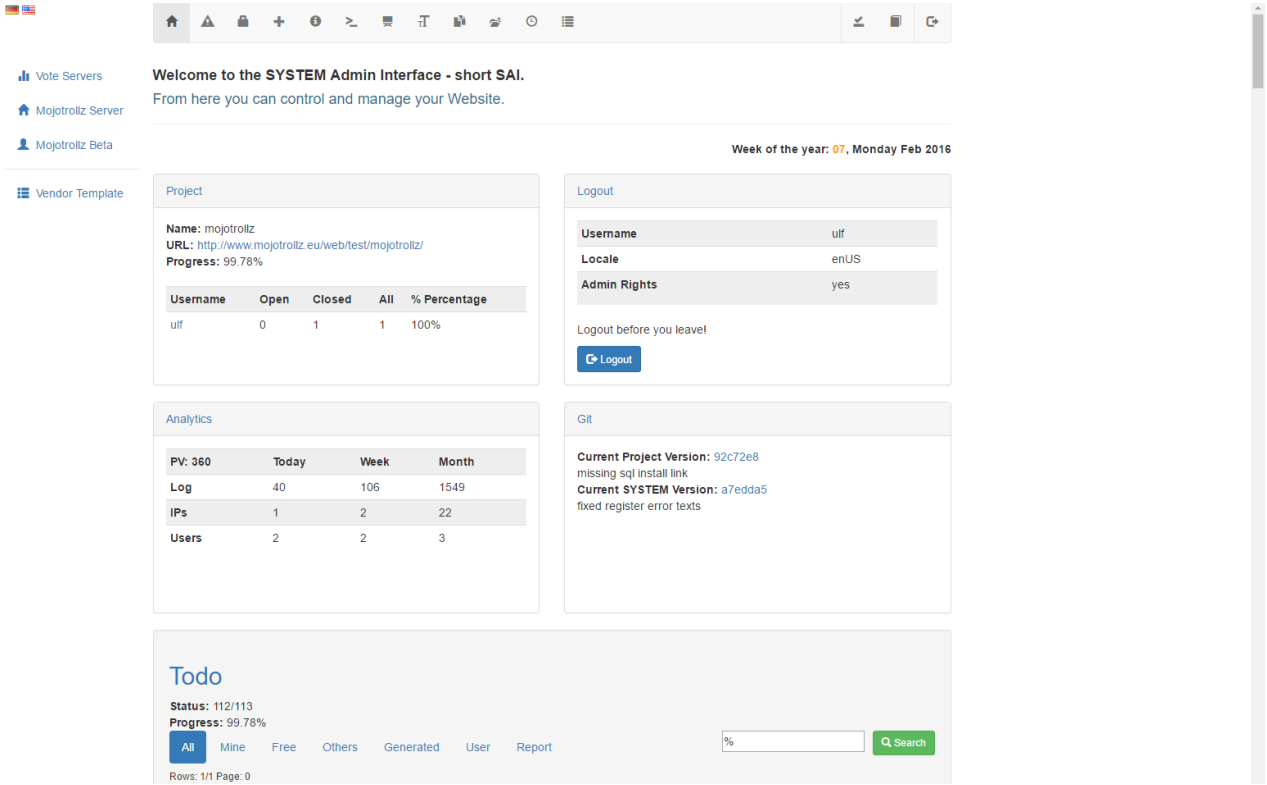
```
<html>
    <head>
        <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
        <meta name="viewport" content="width=device-width, initial-scale=1">
        <meta name="description" content="${meta_description}">
        <meta name="keywords" content="${meta_keywords}">
        <meta name="author" content="${meta_author}">
        <title>${meta_title}</title>
        ${css}
        ${js}
        <link rel="shortcut icon" href="./api.php?call=files&amp;cat=img&amp;id=favicon.png" type="image/x-icon" />
    </head>
    <body style="background: #cccccc; padding-top: 10px;">
        <div class="modal fade" id="modal_text" style="" tabindex="-1" role="dialog" aria-labelledby="myModalLabel" aria-hidden="true">
            <div class="modal-dialog">
                <div class="modal-content">
                    <div class="modal-body" id="modaltext"></div>
                    <div class="modal-footer">
                        <button type="button" class="btn" data-dismiss="modal" id="edit_close">Close</button>
                    </div>
                </div><!-- /.modal-content -->
            </div><!-- /.modal-dialog -->
        </div><!-- /.modal -->
        <div id="menu">
            <div id="menu_content">
                <a href="#!start">${menu_start}</a>
                <a href="#!about">${menu_about}</a>
            </div>
        </div>
        <div id="content"></div>
        <div id="footer">
            <a href="#!impressum" id="impressum">${menu_imprint}</a>
        </div>
    </body>
</html>
```

System Admin Interface - SAI

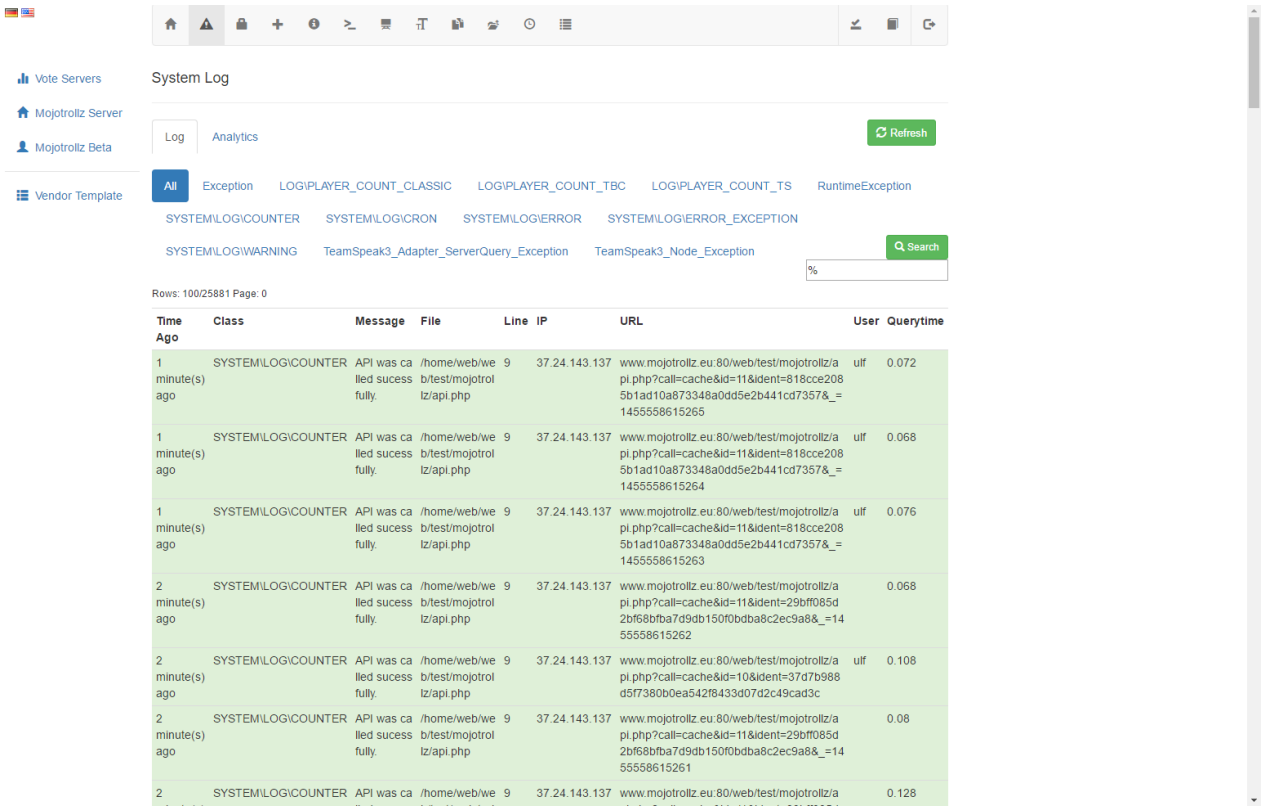
Das System Admin Interface verwaltet System Tabellen und Funktionalität.

- Modular - erweiterbar
- Log - Alle fangbaren Fehler, die auf der Website auftreten
- Analysis - Besucher, Logins, Fehler
- Nutzerverwaltung
- Text, Cache, Cron, Config, Todo, Git, ...

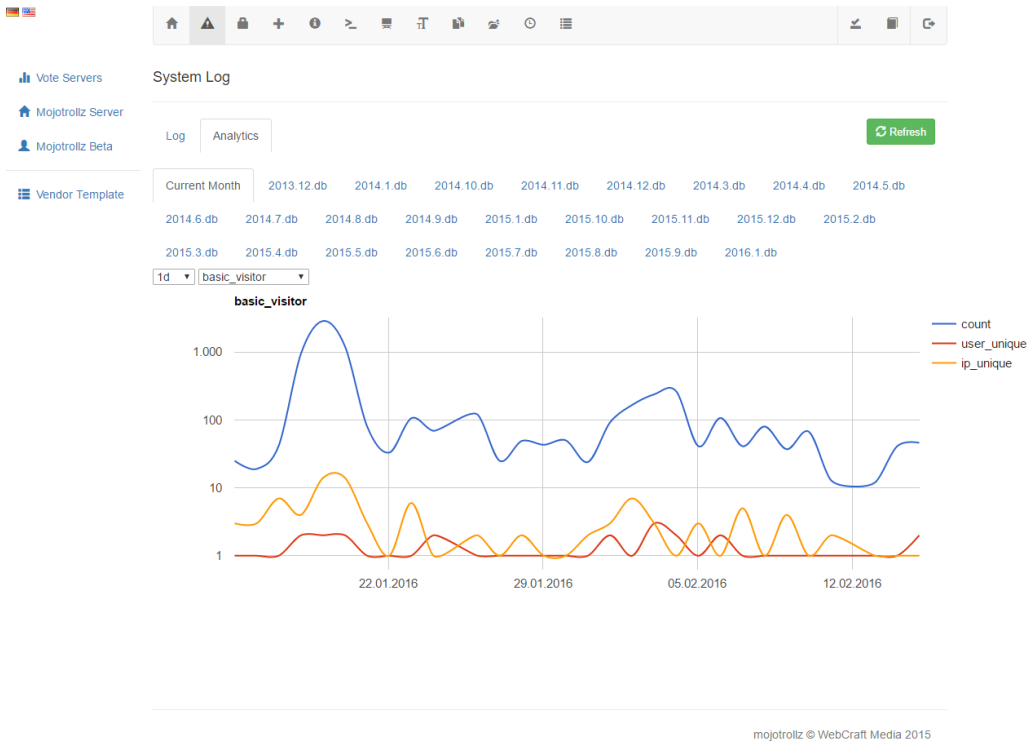
SAI - Start


Vote Servers
Mojotrollz Server
Mojotrollz Beta
Vendor Template
Welcome to the SYSTEM Admin Interface - short SAI.
From here you can control and manage your Website.
Week of the year: 07, Monday Feb 2016
Project
Name: mojotrollz
URL: http://www.mojotrollz.eu/web/test/mojotrollz/
Progress: 99.78%
Username Open Closed All % Percentage
ulf 0 1 1 100%
Logout
Username ulf
Locale enUS
Admin Rights yes
Logout before you leave!
Logout
Analytics
PV: 360 Today Week Month
Log 40 106 1549
IPs 1 2 22
Users 2 2 3
Git
Current Project Version: 92c72e8
missing sql install link
Current SYSTEM Version: a7edda5
fixed register error texts
Todo
Status: 112/113
Progress: 99.78%
All Mine Free Others Generated User Report
%
Search
Rows: 1/1 Page: 0

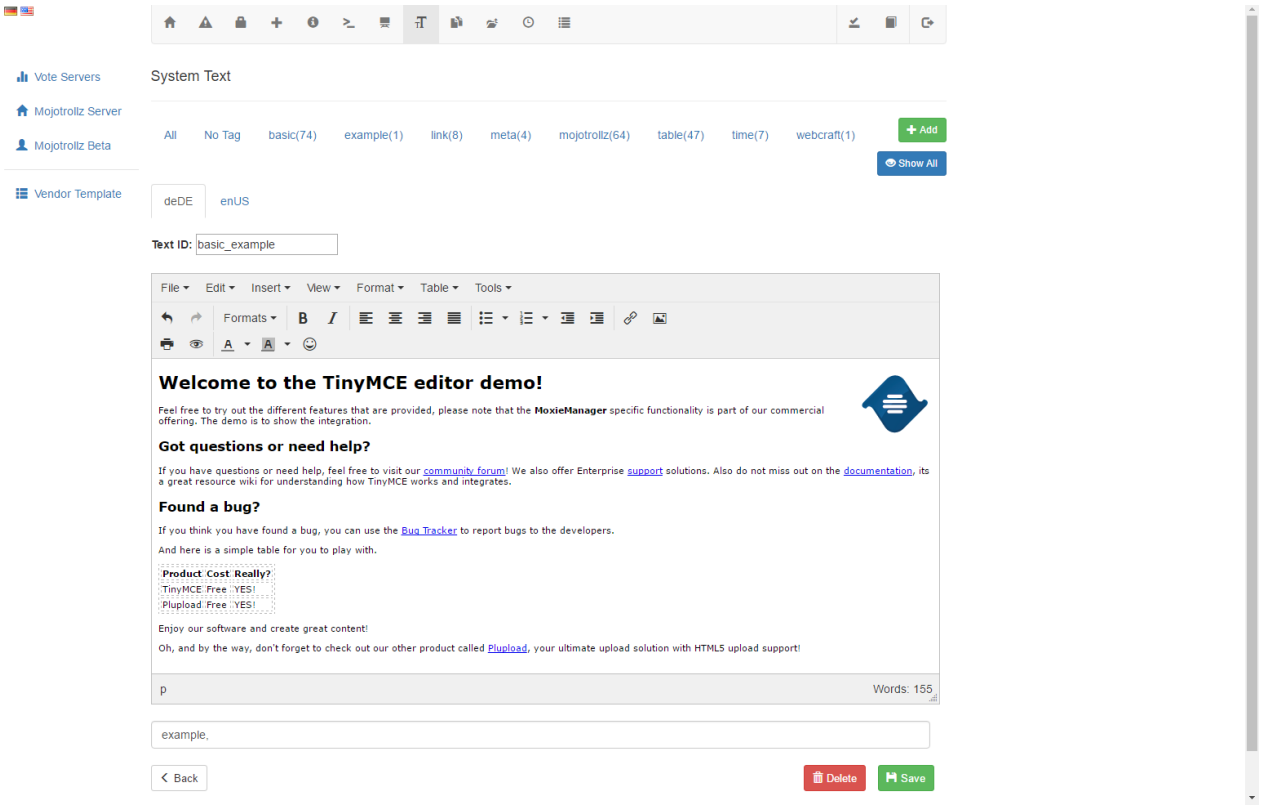
SAI - Log


Vote Servers
Mojotrollz Server
Mojotrollz Beta
Vendor Template
System Log
Log
Analytics
Refresh
All
Exception
LOG\PLAYER_COUNT_CLASSIC
LOG\PLAYER_COUNT_TBC
LOG\PLAYER_COUNT_TS
RuntimeException
SYSTEM\LOG\COUNTER
SYSTEM\LOG\CRON
SYSTEM\LOG\ERROR
SYSTEM\LOG\ERROR_EXCEPTION
SYSTEM\LOG\WARNING
TeamSpeak3_Adapter_ServerQuery_Exception
TeamSpeak3_Node_Exception
Search
%
Rows: 100/25881 Page: 0
Time Ago | Class | Message | File | Line | IP | URL | User | Querytime
1 minute(s) ago | SYSTEM\LOG\COUNTER | API was called sucessfully. | /home/web/web/test/mojotrollz/api.php | 9 | 37.24.143.137 | www.mojotrollz.eu:80/web/test/mojotrollz/api.php?call=cache&id=11&ident=818cce2085b1ad10a873348a0dd5e2b441cd7357&_=1455558615265 | ulf | 0.072
1 minute(s) ago | SYSTEM\LOG\COUNTER | API was called sucessfully. | /home/web/web/test/mojotrollz/api.php | 9 | 37.24.143.137 | www.mojotrollz.eu:80/web/test/mojotrollz/api.php?call=cache&id=11&ident=818cce2085b1ad10a873348a0dd5e2b441cd7357&_=1455558615264 | ulf | 0.068
1 minute(s) ago | SYSTEM\LOG\COUNTER | API was called sucessfully. | /home/web/web/test/mojotrollz/api.php | 9 | 37.24.143.137 | www.mojotrollz.eu:80/web/test/mojotrollz/api.php?call=cache&id=11&ident=818cce2085b1ad10a873348a0dd5e2b441cd7357&_=1455558615263 | ulf | 0.076
2 minute(s) ago | SYSTEM\LOG\COUNTER | API was called sucessfully. | /home/web/web/test/mojotrollz/api.php | 9 | 37.24.143.137 | www.mojotrollz.eu:80/web/test/mojotrollz/api.php?call=cache&id=11&ident=29bff085d2bf68bfba7d9db150f0bdba8c2ec9a8&_=1455558615262 | | 0.068
2 minute(s) ago | SYSTEM\LOG\COUNTER | API was called sucessfully. | /home/web/web/test/mojotrollz/api.php | 9 | 37.24.143.137 | www.mojotrollz.eu:80/web/test/mojotrollz/api.php?call=cache&id=10&ident=37d7b988d5f7380b0ea542f8433d07d2c49cad3c | ulf | 0.108
2 minute(s) ago | SYSTEM\LOG\COUNTER | API was called sucessfully. | /home/web/web/test/mojotrollz/api.php | 9 | 37.24.143.137 | www.mojotrollz.eu:80/web/test/mojotrollz/api.php?call=cache&id=11&ident=29bff085d2bf68bfba7d9db150f0bdba8c2ec9a8&_=1455558615261 | | 0.08
2 | SYSTEM\LOG\COUNTER | API was ca | /home/web/we | 9 | 37.24.143.137 | www.mojotrollz.eu:80/web/test/mojotrollz/a | | 0.128

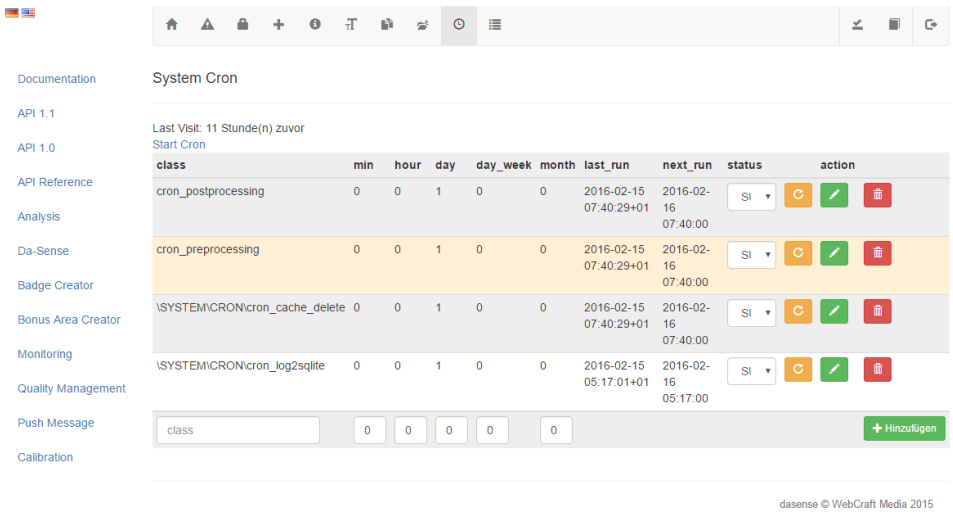
SAI - Analysis



SAI - Text


Vote Servers
Mojotrollz Server
Mojotrollz Beta
Vendor Template
System Text
All
No Tag
basic(74)
example(1)
link(8)
meta(4)
mojotrollz(64)
table(47)
time(7)
webcraft(1)
Add
Show All
deDE
enUS
Text ID: basic_example
File Edit Insert View Format Table Tools
Formats
Welcome to the TinyMCE editor demo!
Feel free to try out the different features that are provided, please note that the MoxieManager specific functionality is part of our commercial offering. The demo is to show the integration.
Got questions or need help?
If you have questions or need help, feel free to visit our community forum! We also offer Enterprise support solutions. Also do not miss out on the documentation, its a great resource wiki for understanding how TinyMCE works and integrates.
Found a bug?
If you think you have found a bug, you can use the Bug Tracker to report bugs to the developers.
And here is a simple table for you to play with.
Product Cost Really?
TinyMCE Free YES!
Plupload Free YES!
Enjoy our software and create great content!
Oh, and by the way, don't forget to check out our other product called Plupload, your ultimate upload solution with HTML5 upload support!
p
Words: 155
example.
Back
Delete
Save

SAI - Cron


Documentation
API 1.1
API 1.0
API Reference
Analysis
Da-Sense
Badge Creator
Bonus Area Creator
Monitoring
Quality Management
Push Message
Calibration
System Cron
Last Visit: 11 Stunde(n) zuvor
Start Cron
class min hour day day_week month last_run next_run status action
cron_postprocessing 0 0 1 0 0 2016-02-15 07:40:29+01 2016-02-16 07:40:00
cron_preprocessing 0 0 1 0 0 2016-02-15 07:40:29+01 2016-02-16 07:40:00
\SYSTEM\CRON\cron_cache_delete 0 0 1 0 0 2016-02-15 07:40:29+01 2016-02-16 07:40:00
\SYSTEM\CRON\cron_log2sqlite 0 0 1 0 0 2016-02-15 05:17:01+01 2016-02-16 05:17:00
class
Hinzufügen
dasense © WebCraft Media 2015

Vorteile bei Einsatz von System

- Kompakt und Einfach
- Noch jung, keine starren Strukturen
- Git kompatibel
- frei (`https://github.com/webcraftmedia/system`)

Nachteile bei Einsatz von System

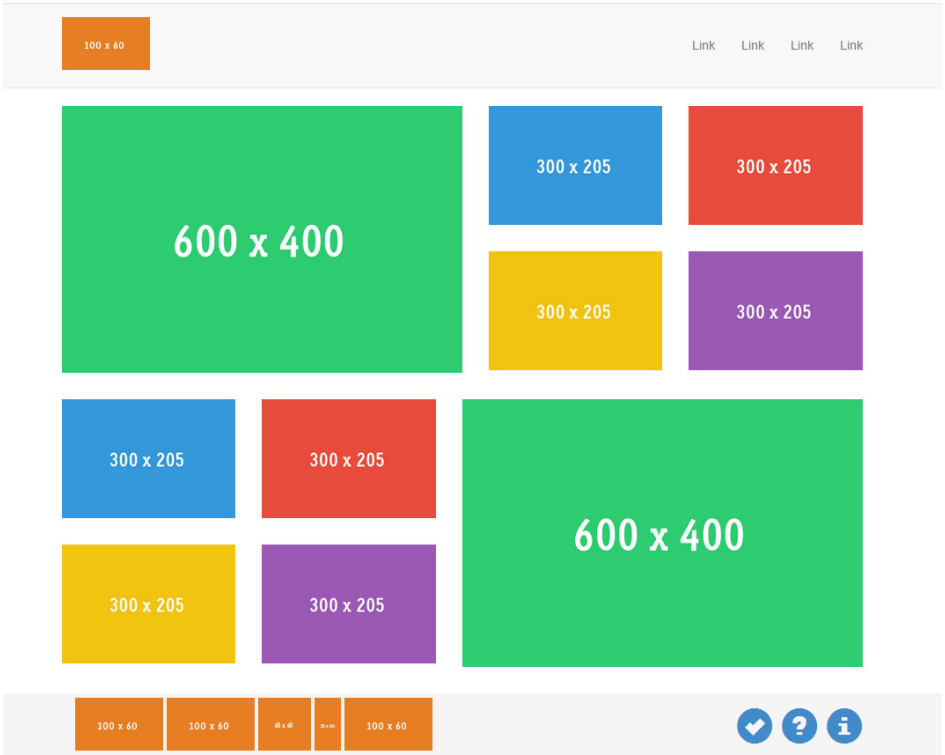
- Geringe Verbreitung
- Geringer Anteil an Dokumentation
- Unzureichende Nutzerverwaltung

Ausblick - Bootstrap

- Bootstrap Grid
- Col füllen/nachladen
- Bootstrap Menü

Nutzen

- “Click Click” Websiten
- Noch einfacher
- Wiederverwertung von Templates/Code

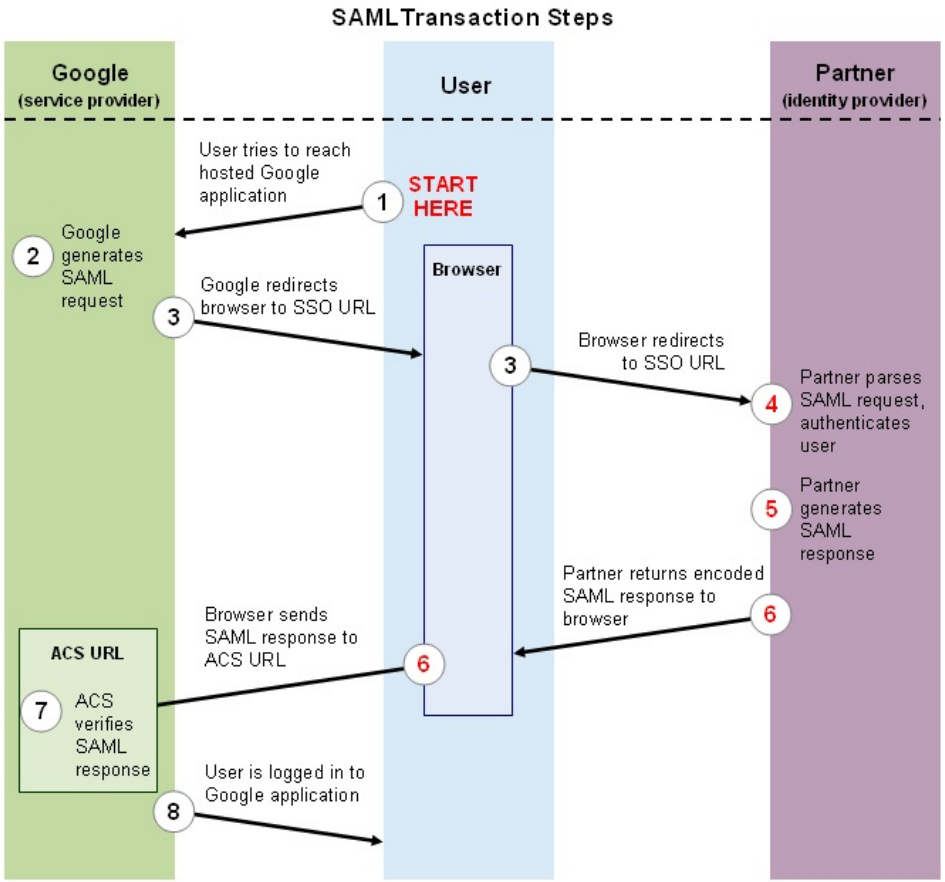


Ausblick - Usermanagement

- unzureichend
- umständlich
- Tabelle pro Projekt

SAML

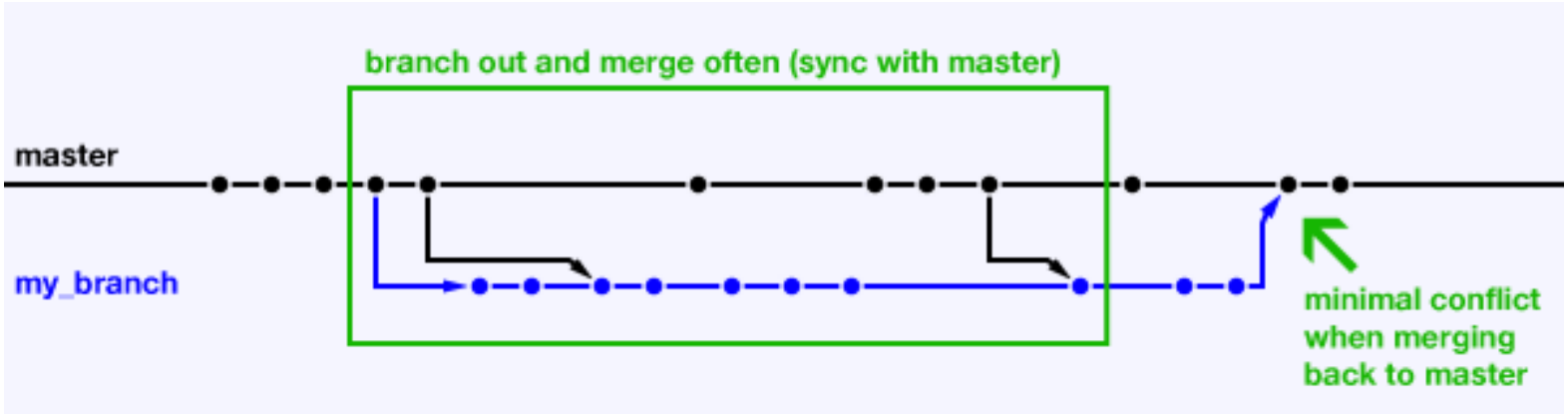
- IDPs
- SPs
- verwaltung mehrer Seiten, Zentralisierung



Versionskontrolle

Was Ist Versionskontrolle?

Git Branch


branch out and merge often (sync with master)
master
my_branch
minimal conflict
when merging
back to master

Git Workflow

Welche Versionskontrollsystem gibt es?

- Git
- Mercurial
- SVN
- Andere (2005)

Welches Versionskontrollsystem ist das richtige?

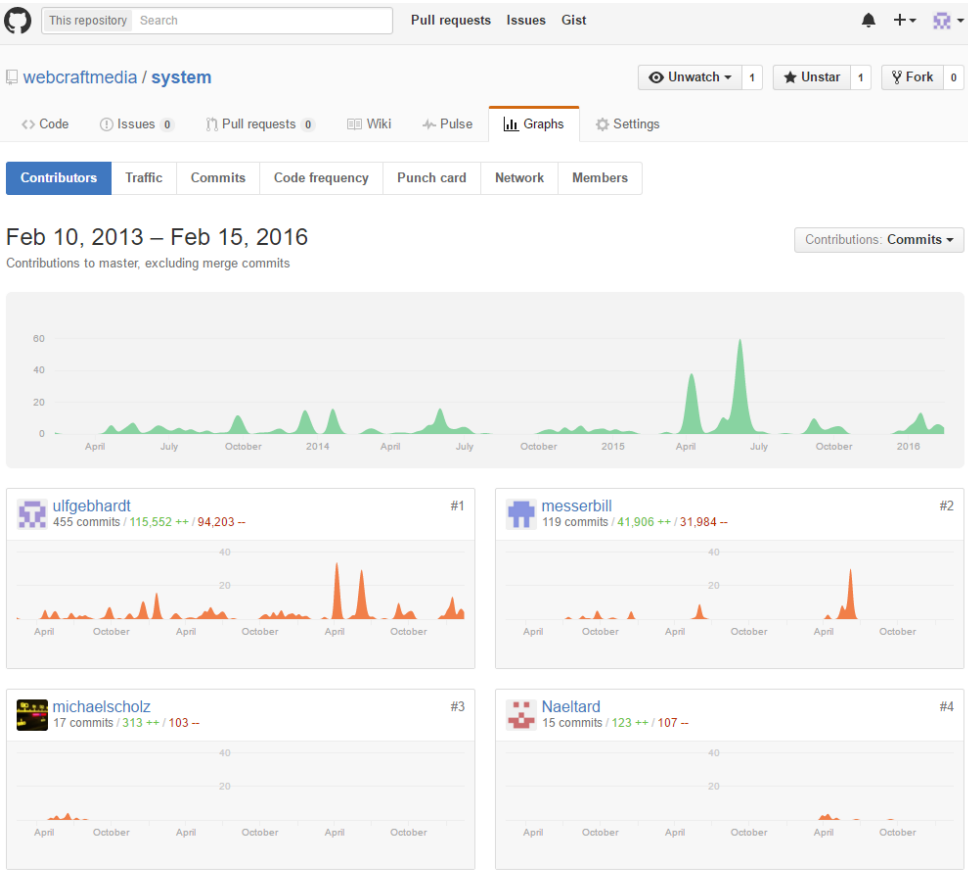
- Mercurial (code.google.com)
- SVN (Probleme, zu alt)
- Git (github.com - Die Bibliothek von Alexandria des 21. Jahrhunderts)

Features von GIT

Git ist zentraler Bestandteil jeder modernen IT-Firma.

- Kontrolle der Entwicklung/Abrechnung
- Motivation
- Deploy
- Mehrere Entwickler können an dem selben Projekt arbeiten
- Backup inklusive Historie

Projektverlauf visualisiert über Git

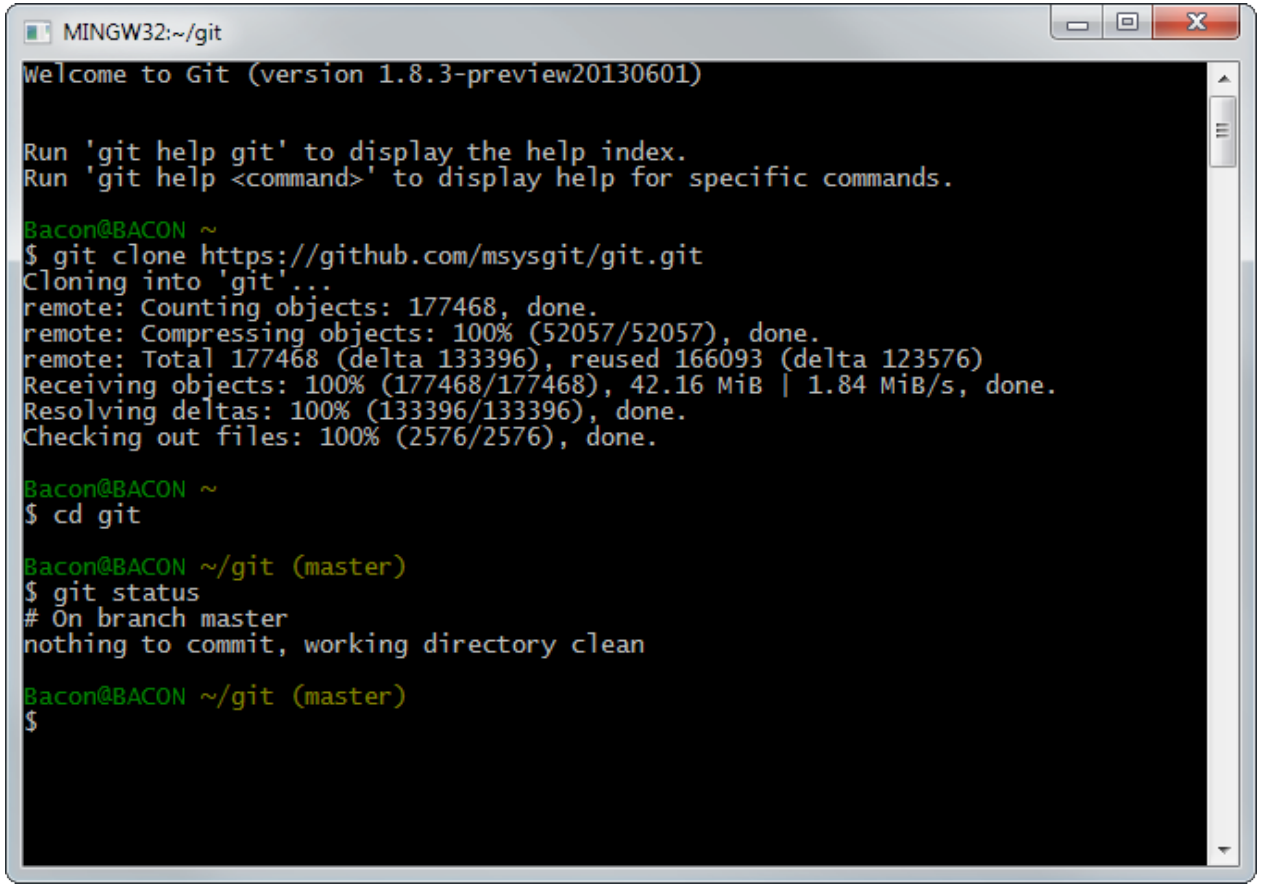


Software Empfehlungen - Entwicklung

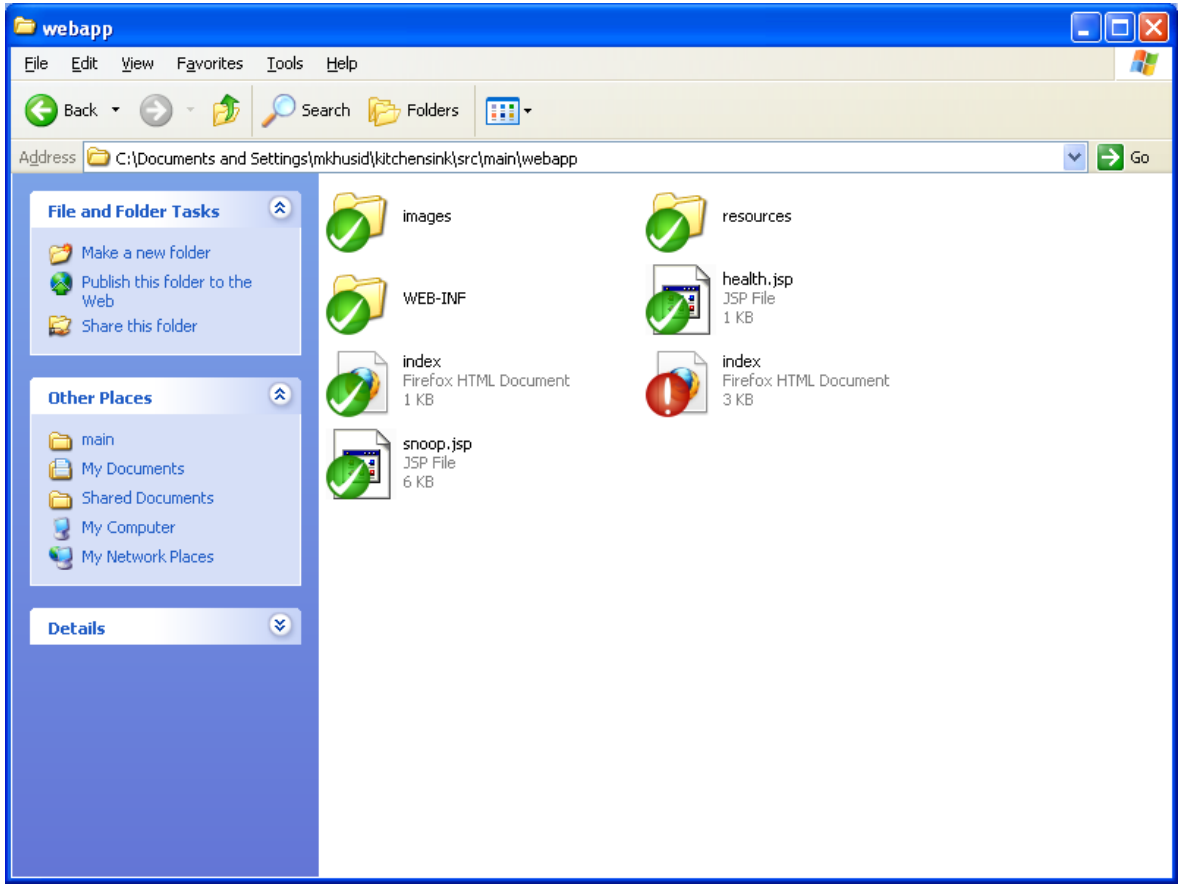
Versionskontrollsoftware für GIT

- Git Console
- Tortoise Git
- Smart Git (commercial)

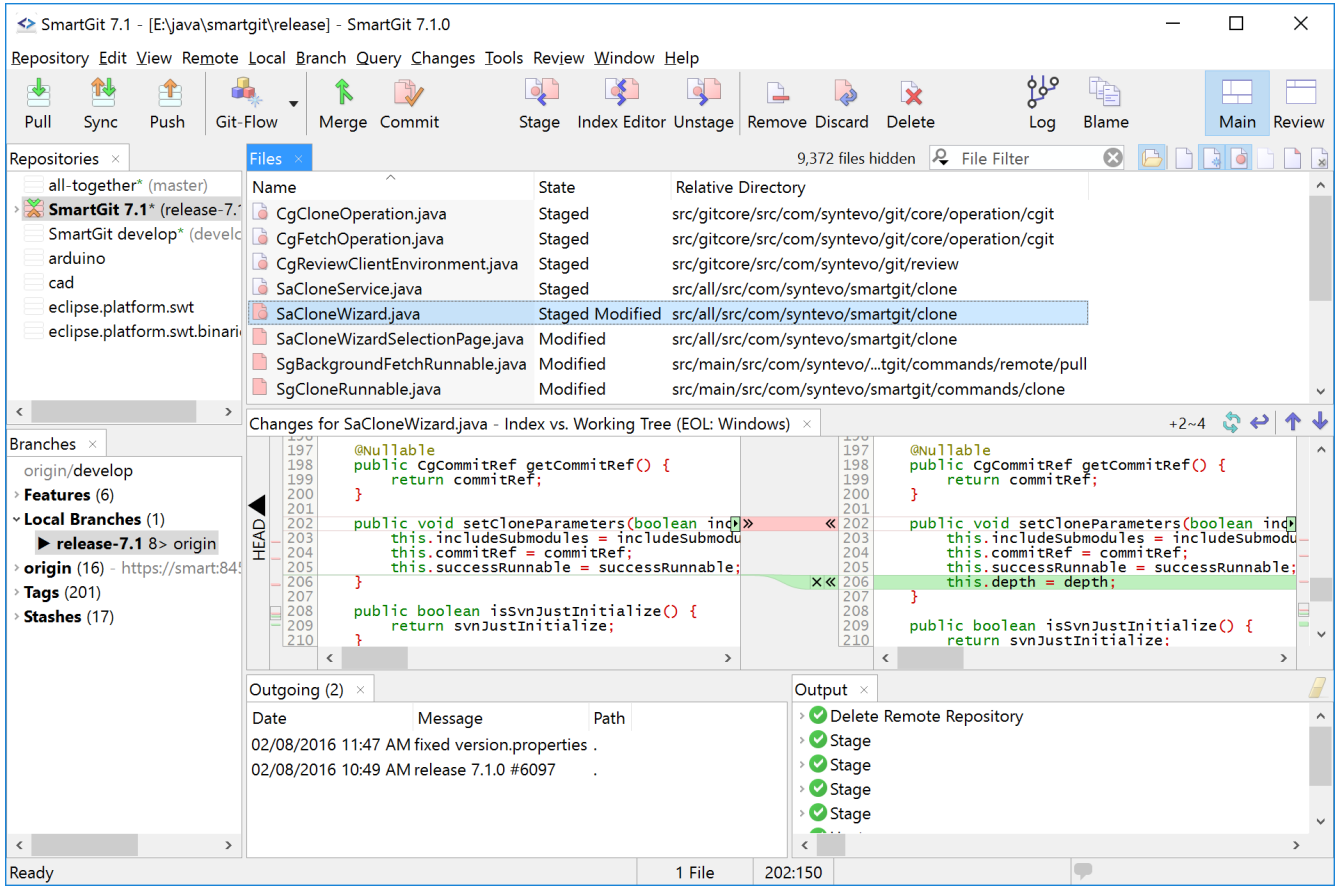
Git Console


MINGW32:~/git
Welcome to Git (version 1.8.3-preview20130601)
Run 'git help git' to display the help index.
Run 'git help <command>' to display help for specific commands.
Bacon@BACON ~
$ git clone https://github.com/msysgit/git.git
Cloning into 'git'...
remote: Counting objects: 177468, done.
remote: Compressing objects: 100% (52057/52057), done.
remote: Total 177468 (delta 133396), reused 166093 (delta 123576)
Receiving objects: 100% (177468/177468), 42.16 MiB | 1.84 MiB/s, done.
Resolving deltas: 100% (133396/133396), done.
Checking out files: 100% (2576/2576), done.
Bacon@BACON ~
$ cd git
Bacon@BACON ~/git (master)
$ git status
# On branch master
nothing to commit, working directory clean
Bacon@BACON ~/git (master)
$

Tortoise Git



Smart Git


SmartGit 7.1 - [E:\java\smartgit\release] - SmartGit 7.1.0
Repository Edit View Remote Local Branch Query Changes Tools Review Window Help
Pull Sync Push Git-Flow Merge Commit Stage Index Editor Unstage Remove Discard Delete Log Blame Main Review
Repositories
all-together* (master)
SmartGit 7.1* (release-7.
SmartGit develop* (develc
arduino
cad
eclipse.platform.swt
eclipse.platform.swt.binari
Files
9,372 files hidden
File Filter
Name State Relative Directory
CgCloneOperation.java Staged src/gitcore/src/com/syntevo/git/core/operation/cgit
CgFetchOperation.java Staged src/gitcore/src/com/syntevo/git/core/operation/cgit
CgReviewClientEnvironment.java Staged src/gitcore/src/com/syntevo/git/review
SaCloneService.java Staged src/all/src/com/syntevo/smartgit/clone
SaCloneWizard.java Staged Modified src/all/src/com/syntevo/smartgit/clone
SaCloneWizardSelectionPage.java Modified src/all/src/com/syntevo/smartgit/clone
SgBackgroundFetchRunnable.java Modified src/main/src/com/syntevo/...tgit/commands/remote/pull
SgCloneRunnable.java Modified src/main/src/com/syntevo/smartgit/commands/clone
Changes for SaCloneWizard.java - Index vs. Working Tree (EOL: Windows)
+2~4
Branches
origin/develop
Features (6)
Local Branches (1)
release-7.1 8> origin
origin (16) - https://smart:84
Tags (201)
Stashes (17)
HEAD
@Nullable
public CgCommitRef getCommitRef() {
return commitRef;
}
public void setCloneParameters(boolean inc
this.includeSubmodules = includeSubmodu
this.commitRef = commitRef;
this.successRunnable = successRunnable;
this.depth = depth;
public boolean isSvnJustInitialize() {
return svnJustInitialize;
Outgoing (2)
Date Message Path
02/08/2016 11:47 AM fixed version.properties .
02/08/2016 10:49 AM release 7.1.0 #6097 .
Output
Delete Remote Repository
Stage
Stage
Stage
Stage
Ready
1 File
202:150

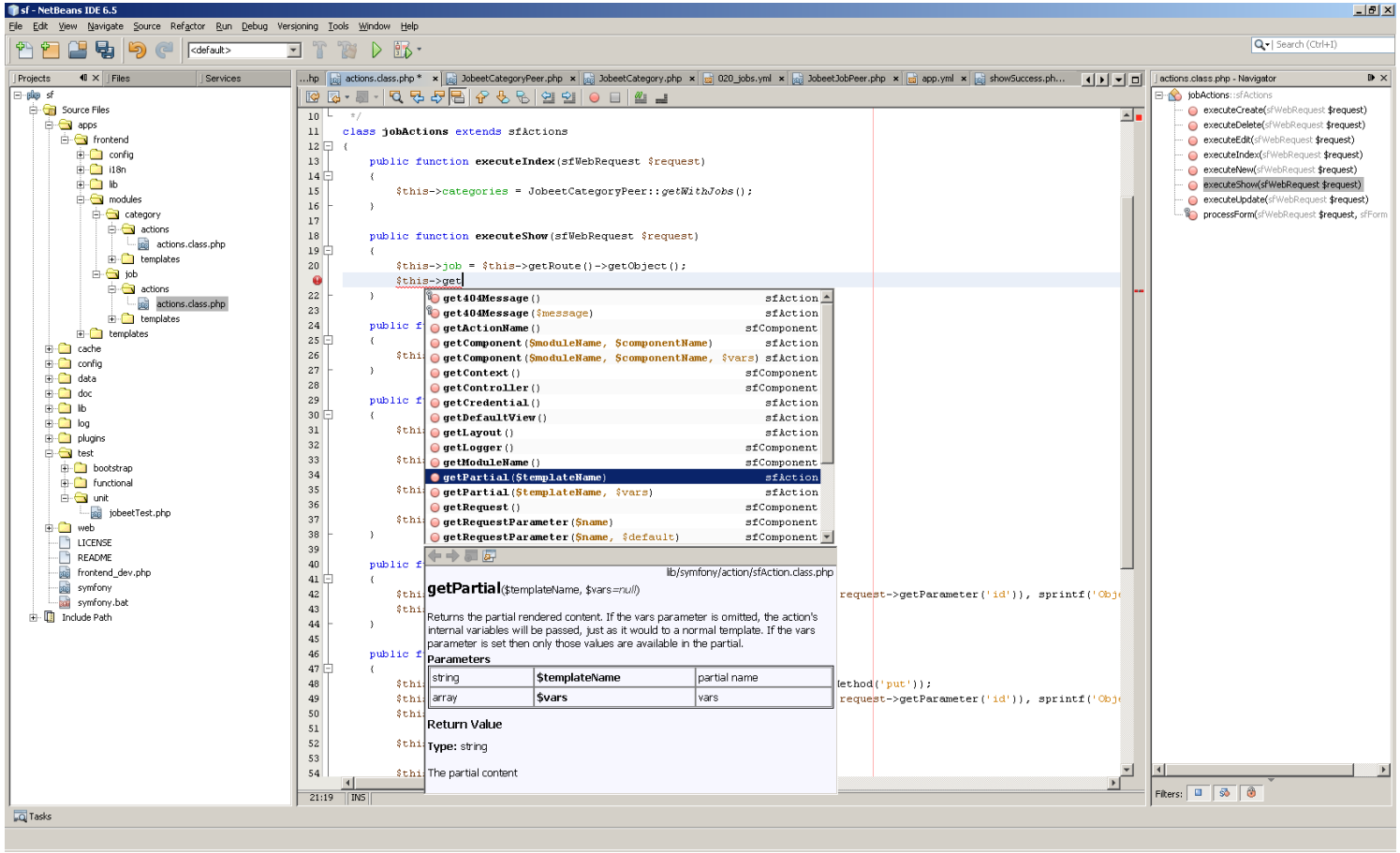
Entwicklungsumgebung

- Code-Autovervollständigung
- Strg-Click - Navigation
- Integration in den Entwicklungsprozess

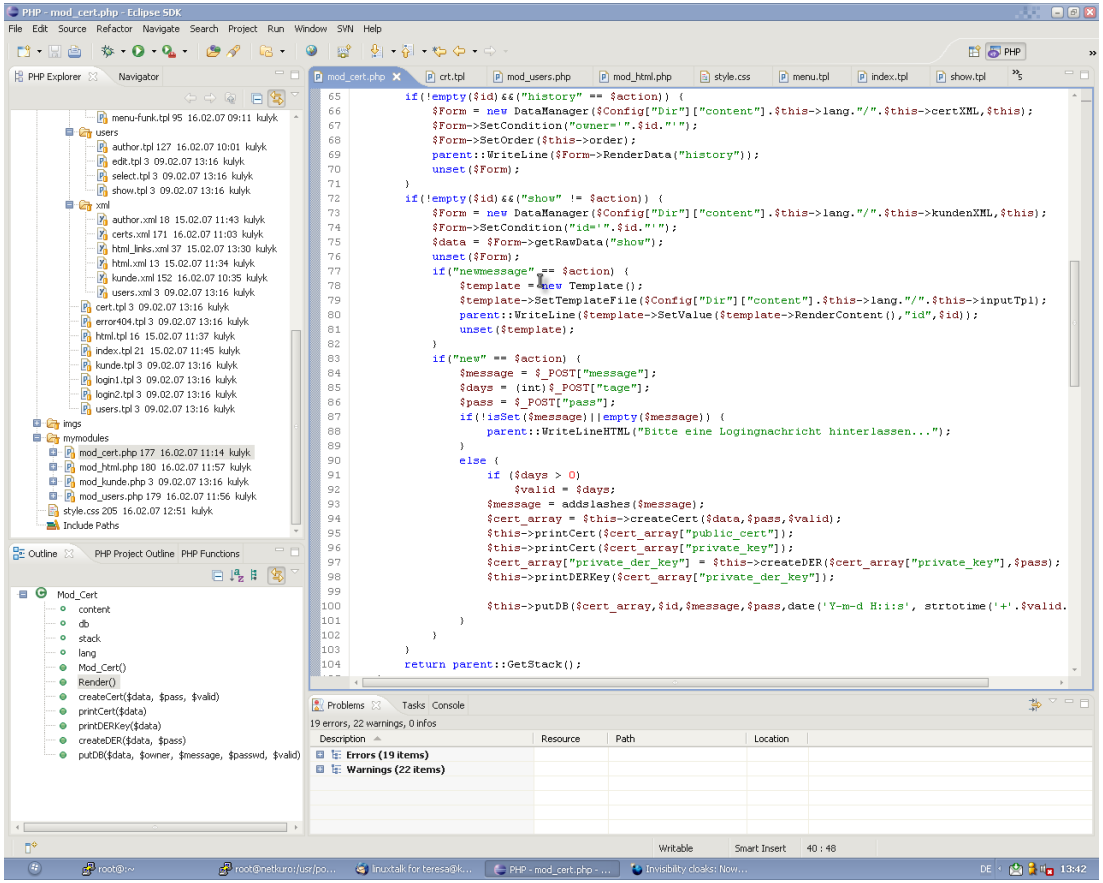
Entwicklungsumgebung für PHP

- Netbeans
- Eclipse
- PhpStorm (commercial)

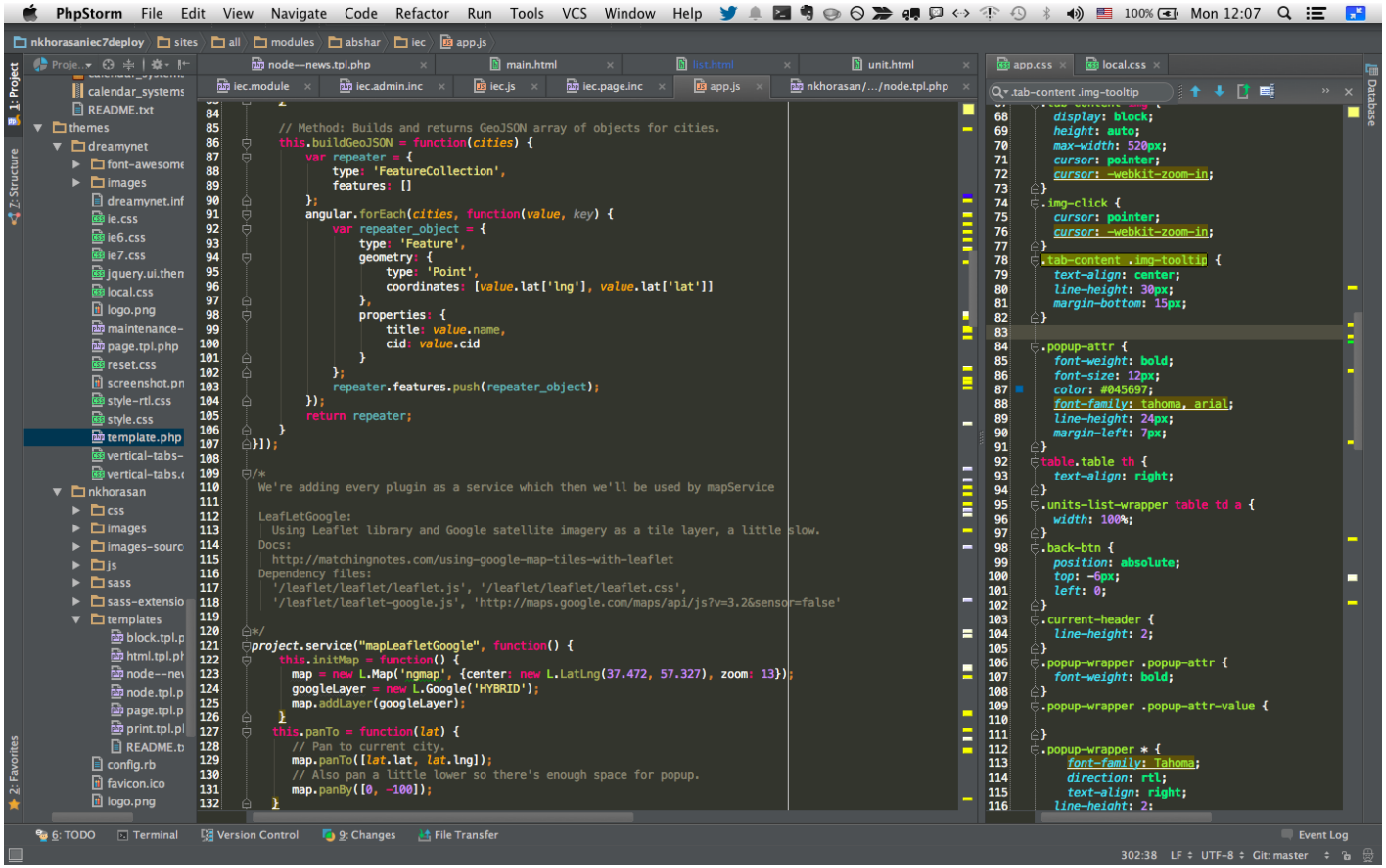
Netbeans


sf - NetBeans IDE 6.5
File Edit View Navigate Source Refactor Run Debug Versioning Tools Window Help
Projects Files Services
Source Files
apps
frontend
config
i18n
lib
modules
category
actions
actions.class.php
templates
job
actions
actions.class.php
templates
templates
cache
config
data
doc
lib
log
plugins
test
bootstrap
functional
unit
jobeetTest.php
web
LICENSE
README
frontend_dev.php
symfony
symfony.bat
Include Path
actions.class.php - Navigator
jobActions::sfActions
executeCreate(sfWebRequest $request)
executeDelete(sfWebRequest $request)
executeEdit(sfWebRequest $request)
executeIndex(sfWebRequest $request)
executeNew(sfWebRequest $request)
executeShow(sfWebRequest $request)
executeUpdate(sfWebRequest $request)
processForm(sfWebRequest $request, sfForm
getPartial($templateName, $vars=null)
Returns the partial rendered content. If the vars parameter is omitted, the action's internal variables will be passed, just as it would to a normal template. If the vars parameter is set then only those values are available in the partial.
Parameters
Return Value
Type: string
The partial content
Tasks

Eclipse


PHP - mod_cert.php - Eclipse SDK
File Edit Source Refactor Navigate Search Project Run Window SVN Help
PHP Explorer
Navigator
mod_cert.php
crt.tpl
mod_users.php
mod_html.php
style.css
menu.tpl
index.tpl
show.tpl
Outline
PHP Project Outline
PHP Functions
Problems
Tasks
Console
19 errors, 22 warnings, 0 infos
Description
Resource
Path
Location
Errors (19 items)
Warnings (22 items)
Writable
Smart Insert
40 : 48

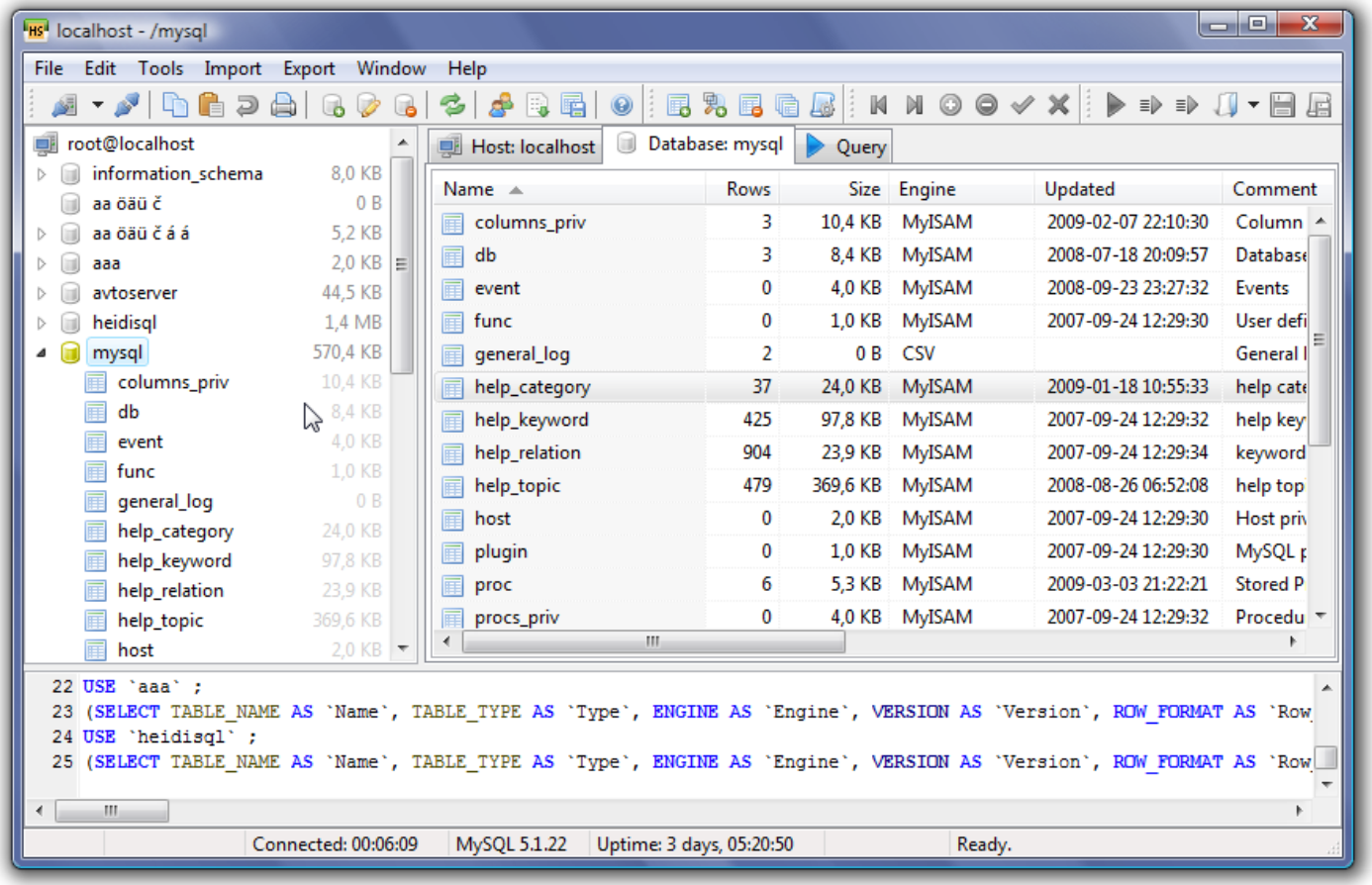
PhpStorm


PhpStorm File Edit View Navigate Code Refactor Run Tools VCS Window Help
Mon 12:07
nkhorasaniec7deploy sites all modules abshar iec app.js
node--news.tpl.php main.html list.html unit.html
iec.module iec.admin.inc iec.js iec.page.inc app.js nkhorasan/.../node.tpl.php
app.css local.css
.tab-content .img-tooltip
calendar_systems
README.txt
themes
dreamynet
font-awesome
images
dreamynet.inf
ie.css
ie6.css
ie7.css
jquery.ui.then
local.css
logo.png
maintenance-
page.tpl.php
reset.css
screenshot.pn
style-rtl.css
style.css
template.php
vertical-tabs-
vertical-tabs.
nkhorasan
css
images
images-sourc
js
sass
sass-extensio
templates
block.tpl.p
html.tpl.ph
node--nev
node.tpl.p
page.tpl.p
print.tpl.pl
README.t
config.rb
favicon.ico
logo.png
// Method: Builds and returns GeoJSON array of objects for cities.
this.buildGeoJSON = function(cities) {
var repeater = {
type: 'FeatureCollection',
features: []
};
angular.forEach(cities, function(value, key) {
var repeater_object = {
type: 'Feature',
geometry: {
type: 'Point',
coordinates: [value.lat['lng'], value.lat['lat']]
},
properties: {
title: value.name,
cid: value.cid
}
};
repeater.features.push(repeater_object);
});
return repeater;
}
});
/*
We're adding every plugin as a service which then we'll be used by mapService
LeafLetGoogle:
Using Leaflet library and Google satellite imagery as a tile layer, a little slow.
Docs:
http://matchingnotes.com/using-google-map-tiles-with-leaflet
Dependency files:
'/leaflet/leaflet/leaflet.js', '/leaflet/leaflet/leaflet.css',
'/leaflet/leaflet-google.js', 'http://maps.google.com/maps/api/js?v=3.2&sensor=false'
*/
project.service("mapLeafletGoogle", function() {
this.initMap = function() {
map = new L.Map('ngmap', {center: new L.LatLng(37.472, 57.327), zoom: 13});
googleLayer = new L.Google('HYBRID');
map.addLayer(googleLayer);
}
this.panTo = function(lat) {
// Pan to current city.
map.panTo([lat.lat, lat.lng]);
// Also pan a little lower so there's enough space for popup.
map.panBy([0, -100]);
}
display: block;
height: auto;
max-width: 520px;
cursor: pointer;
cursor: -webkit-zoom-in;
}
.img-click {
cursor: pointer;
cursor: -webkit-zoom-in;
}
.tab-content .img-tooltip {
text-align: center;
line-height: 30px;
margin-bottom: 15px;
}
.popup-attr {
font-weight: bold;
font-size: 12px;
color: #045697;
font-family: tahoma, arial;
line-height: 24px;
margin-left: 7px;
}
table.table th {
text-align: right;
}
.units-list-wrapper table td a {
width: 100%;
}
.back-btn {
position: absolute;
top: -6px;
left: 0;
}
.current-header {
line-height: 2;
}
.popup-wrapper .popup-attr {
font-weight: bold;
}
.popup-wrapper .popup-attr-value {
}
.popup-wrapper * {
font-family: Tahoma;
direction: rtl;
text-align: right;
line-height: 2;
6: TODO Terminal Version Control 9: Changes File Transfer Event Log
302:38 LF UTF-8 Git: master

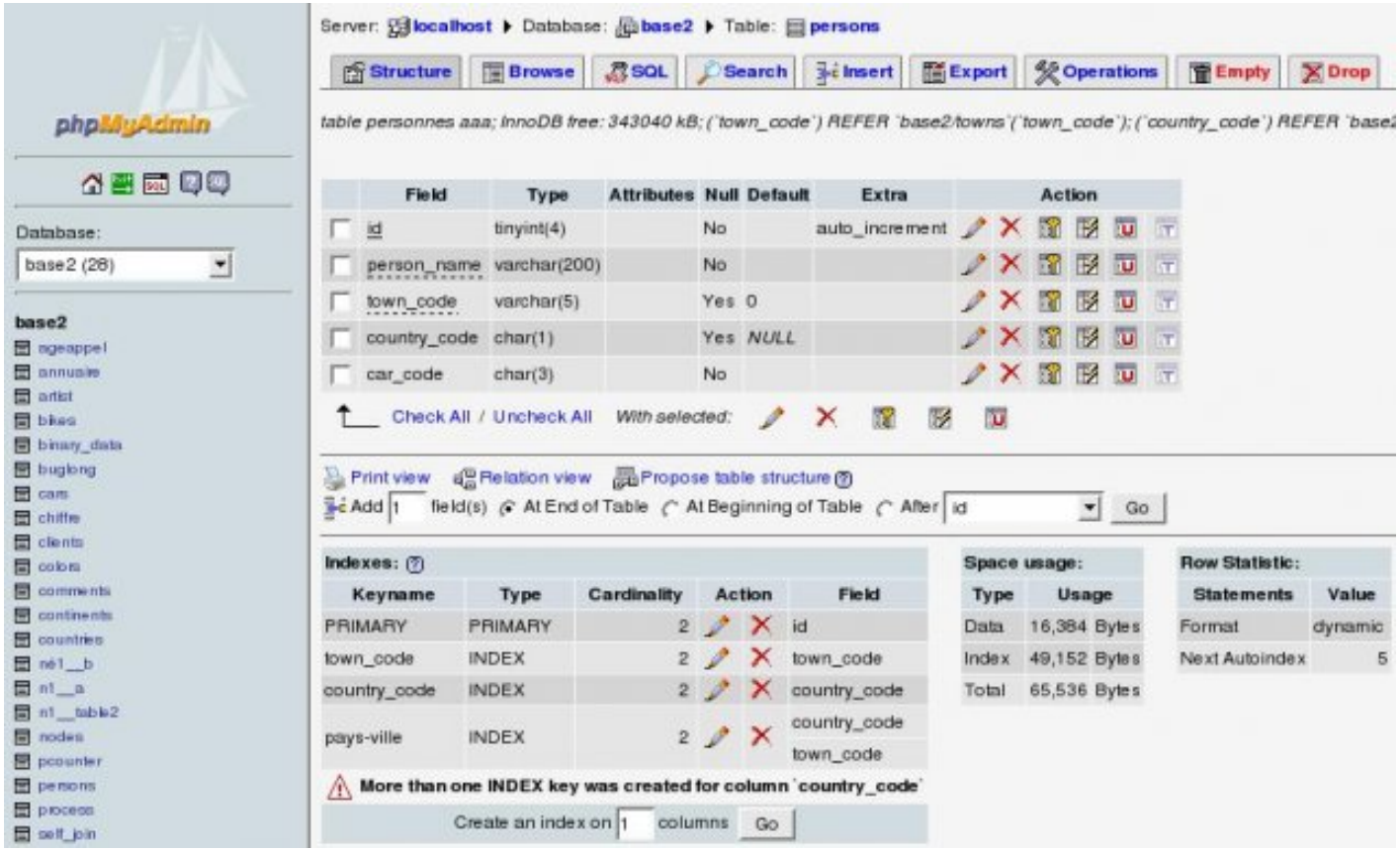
SQL Client

- Heidi SQL
- phpMyAdmin
- Navicat (commercial)

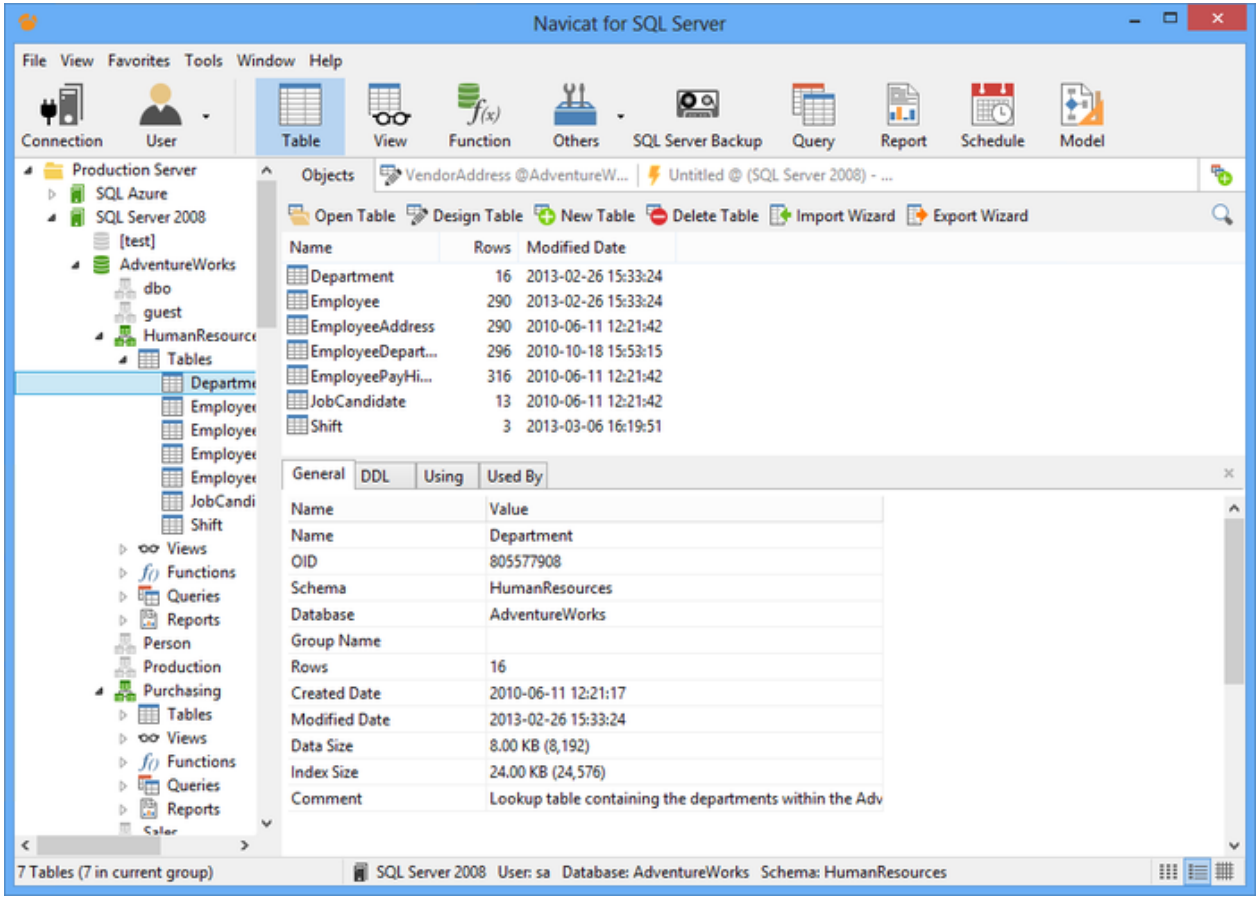
Heidi SQL


localhost - /mysql
File Edit Tools Import Export Window Help
root@localhost
information_schema 8,0 KB
aa öäü č 0 B
aa öäü č á á 5,2 KB
aaa 2,0 KB
avtoserver 44,5 KB
heidisql 1,4 MB
mysql 570,4 KB
columns_priv 10,4 KB
db 8,4 KB
event 4,0 KB
func 1,0 KB
general_log 0 B
help_category 24,0 KB
help_keyword 97,8 KB
help_relation 23,9 KB
help_topic 369,6 KB
host 2,0 KB
Host: localhost
Database: mysql
Query
Name Rows Size Engine Updated Comment
columns_priv 3 10,4 KB MyISAM 2009-02-07 22:10:30 Column
db 3 8,4 KB MyISAM 2008-07-18 20:09:57 Database
event 0 4,0 KB MyISAM 2008-09-23 23:27:32 Events
func 0 1,0 KB MyISAM 2007-09-24 12:29:30 User defi
general_log 2 0 B CSV General l
help_category 37 24,0 KB MyISAM 2009-01-18 10:55:33 help cate
help_keyword 425 97,8 KB MyISAM 2007-09-24 12:29:32 help key
help_relation 904 23,9 KB MyISAM 2007-09-24 12:29:34 keyword
help_topic 479 369,6 KB MyISAM 2008-08-26 06:52:08 help top
host 0 2,0 KB MyISAM 2007-09-24 12:29:30 Host priv
plugin 0 1,0 KB MyISAM 2007-09-24 12:29:30 MySQL p
proc 6 5,3 KB MyISAM 2009-03-03 21:22:21 Stored P
procs_priv 0 4,0 KB MyISAM 2007-09-24 12:29:32 Procedu
22 USE `aaa` ;
23 (SELECT TABLE_NAME AS `Name`, TABLE_TYPE AS `Type`, ENGINE AS `Engine`, VERSION AS `Version`, ROW_FORMAT AS `Row
24 USE `heidisql` ;
25 (SELECT TABLE_NAME AS `Name`, TABLE_TYPE AS `Type`, ENGINE AS `Engine`, VERSION AS `Version`, ROW_FORMAT AS `Row
Connected: 00:06:09
MySQL 5.1.22
Uptime: 3 days, 05:20:50
Ready.

phpMyAdmin


phpMyAdmin
Database:
base2 (28)
base2
ngeappel
annuaire
artist
bikes
binary_data
buglong
cars
chiffre
clients
colors
comments
continents
countries
nt1__b
nt1__a
nt1__table2
nodes
pcounter
persons
process
self_join
Server: localhost ▸ Database: base2 ▸ Table: persons
Structure
Browse
SQL
Search
Insert
Export
Operations
Empty
Drop
table personnes aaa; InnoDB free: 343040 kB; (`town_code`) REFER `base2/towns`(`town_code`); (`country_code`) REFER `base2
Field
Type
Attributes
Null
Default
Extra
Action
id
tinyint(4)
No
auto_increment
person_name
varchar(200)
No
town_code
varchar(5)
Yes
0
country_code
char(1)
Yes
NULL
car_code
char(3)
No
Check All / Uncheck All
With selected:
Print view
Relation view
Propose table structure
Add
1
field(s)
At End of Table
At Beginning of Table
After
id
Go
Indexes:
Keyname
Type
Cardinality
Action
Field
PRIMARY
PRIMARY
2
id
town_code
INDEX
2
town_code
country_code
INDEX
2
country_code
pays-ville
INDEX
2
country_code
town_code
More than one INDEX key was created for column `country_code`
Create an index on
1
columns
Go
Space usage:
Type
Usage
Data
16,384 Bytes
Index
49,152 Bytes
Total
65,536 Bytes
Row Statistic:
Statements
Value
Format
dynamic
Next Autoindex
5

Navicat


Navicat for SQL Server
File View Favorites Tools Window Help
Connection User Table View Function Others SQL Server Backup Query Report Schedule Model
Production Server
SQL Azure
SQL Server 2008
[test]
AdventureWorks
dbo
guest
HumanResource
Tables
Views
Functions
Queries
Reports
Person
Production
Purchasing
Tables
Views
Functions
Queries
Reports
Objects
Open Table Design Table New Table Delete Table Import Wizard Export Wizard
Name Rows Modified Date
Department 16 2013-02-26 15:33:24
Employee 290 2013-02-26 15:33:24
EmployeeAddress 290 2010-06-11 12:21:42
EmployeeDepart... 296 2010-10-18 15:53:15
EmployeePayHi... 316 2010-06-11 12:21:42
JobCandidate 13 2010-06-11 12:21:42
Shift 3 2013-03-06 16:19:51
General DDL Using Used By
Name Value
Name Department
OID 805577908
Schema HumanResources
Database AdventureWorks
Group Name
Rows 16
Created Date 2010-06-11 12:21:17
Modified Date 2013-02-26 15:33:24
Data Size 8.00 KB (8,192)
Index Size 24.00 KB (24,576)
Comment Lookup table containing the departments within the Adv
7 Tables (7 in current group)
SQL Server 2008 User: sa Database: AdventureWorks Schema: HumanResources

Outro

Fragen

Danke für Ihre Aufmerksamkeit

System - Gems

- API - REST in System
- Quick Query - Sichere SQL Querys

System - Gems

API - REST in System

URL

`http://www.example.com/?page=start`

Regeln

system_api (7×1)

ID	group	type	parentID	parentValue	name	verify
1	1	0	-1	(NULL)	page	(NULL)

Funktion

public static function page_start()

API Class Beispiel

```php
<?php
class api_dasense extends \SYSTEM\API\api_system{
    //#Sensor & Geopoint
        public static function call_page_page_sensor($sensorid){
            return page_sensor::json($sensorid);}
        public static function call_page_page_geopoint($lat,$long,$radius,$datatype){
            return page_geopoint::json($lat, $long, $radius, $datatype);}
        public static function call_page_page_geopoint_flag_explore($lat,$long,$radius,$datatype){
            return page_geopoint_explore::json($lat, $long, $radius, $datatype);}

    //#Accountcalls
        public static function call_account_action_login_flag_compatibility($username, $password_sha, $password_md5, $locale, $deviceinfo){
            return DasenseAccount::login($username, $password_sha, $password_md5, $locale, $deviceinfo);}
        public static function call_account_action_login_flag_repairSHA($username, $password_sha_wrong, $password_md5, $password_sha_new, $locale, $deviceinfo){
            return DasenseAccount::login($username, $password_sha_wrong, $password_md5, $locale, $deviceinfo, $password_sha_new);}
        public static function call_account_action_create_flag_compatibility($username,$password_sha,$email,$locale, $deviceinfo){
            return DasenseAccount::create($username, $password_sha, $email, $locale, $deviceinfo);}
        public static function call_account_action_update_change_password($username, $password_sha_old, $password_sha_new){
            return DasenseAccount::changePassword($username, $password_sha_old, $password_sha_new);}
        public static function call_account_action_resetpassword($username, $email){
            return DasenseAccount::resetPassword($username, $email);}
        public static function call_account_action_login_flag_data($username, $password_sha, $password_md5, $locale, $deviceinfo, $data){
            return DasenseAccount::login_data($username, $password_sha, $password_md5, $locale, $deviceinfo, $data);}

        // [06.04.2013] Push Message: register a device for push notification service
        public static function call_account_action_msg_method_register($userid,$deviceid,$token,$os){
            return MessageController::handleRegistrationToken($userid,$deviceid,$token,$os);}

        // [06.04.2013] Push Message: allows users to invite friends via email
        public static function call_account_action_msg_method_invite($userid,$recipient_email,$msg){
            return MessageController::inviteUser($userid,$recipient_email,$msg);}

        // [09.04.2013] Profile: get user's public profile
        public static function call_account_action_profile_get_public($userid){
            return ProfileController::getPublicProfile($userid);}

    //Logging system
    /*    public static function call_log($json){
```

Quick Query - Sichere SQL Querys

QQ

```php
<?php
namespace SYSTEM\SQL;
class SYS_CACHE_DELETE_ALL extends \SYSTEM\DB\QQ {
    public static function get_class(){return \get_class();}
    public static function pgsql(){return
'DELETE FROM system.cache;';
    }
    public static function mysql(){return
'DELETE FROM system_cache;';
    }
}
```

QP

```php
<?php
namespace SYSTEM\SQL;
class SYS_CACHE_DELETE extends \SYSTEM\DB\QP {
    public static function get_class(){return \get_class();}
    public static function pgsql(){return
'DELETE FROM system.cache'.
' WHERE "CacheID" = $1 AND'.
' "Ident" = $2;';
    }
```

Quick Query - Sichere SQL Querys

Q1 - Eine Zeile

```
$res = SYS_SAIMOD_API_SELECT::Q1(array($ID,$group));
```

QA - Alle Zeilen

```
$res = SYS_SAIMOD_API_SELECT::QA(array($ID,$group));
```

QQ - Selber Interrieren

```
$res = SYS_SAIMOD_API_SELECT::QQ(array($ID,$group));
```

QI - Einfügen/Löschen

```
$res = SYS_SAIMOD_API_SELECT::QI(array($ID,$group));
```