

Marko Štamcar <marko@stamcar.com>

ECLIPSE IN SUBVERSION

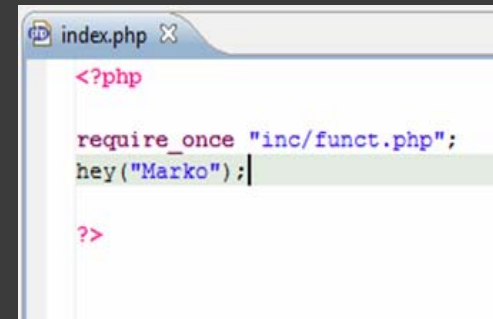
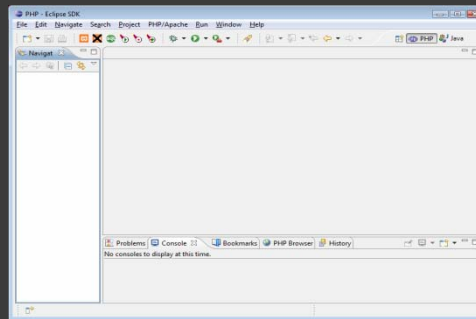
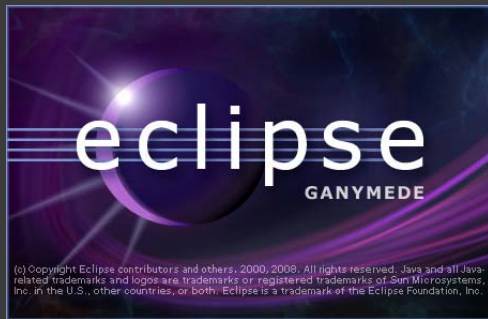
O meni

- PHPjam od leta 2000
- Študiram računalništvo in informatiko
- Blog: www.stamcar.com

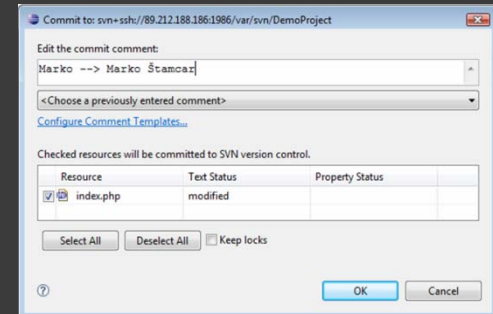
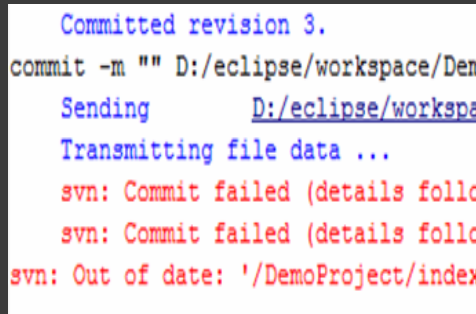
- Google Inc. - 4 leta zunanji sodelavec
- Najdi.si d.o.o. – razvijalec
- Fakulteta za rač. in inf. – PHP tečaji

Spoznali bomo

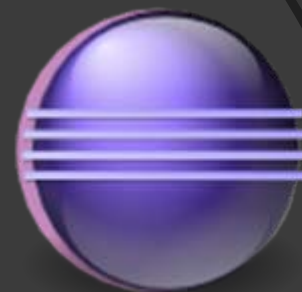
⦿ Eclipse in PHPEclipse



⦿ Subversion ter Subclipse



Eclipse



- ⊙ IDE
 - Integrated Development Environment
- ⊙ Open source od leta 2001
- ⊙ Eclipse Foundation (www.eclipse.org)
- ⊙ Napisan v Javi
- ⊙ Aktualna različica: 3.4 (Ganymede)
- ⊙ Plugini
- ⊙ Razvoj v poljubnem programskem jeziku
 - Java, C, C++, C#, ColdFusion, Javascript, Perl, PHP, Python, Ruby,...
- ⊙ Preprosto nadgrajevanje

Prednosti IDEjev

- ⊙ Barvanje kode
 - Večja preglednost
 - Lažje razhroščevanje
- ⊙ Samodejno dopolnjevanje kode
 - Imena metod, spremenljivk in razredov
 - For zanke, if stavki in drugi jezikovni konstrukti
- ⊙ Upravljanje z viri
 - Boljši pregled nad datotekami in mapami
 - Vgrajeni urejevalniki različnih formatov

Prednosti IDEjev

- ⦿ Orodja za predogled
 - Predogled izdelka (npr. v spletnem brskalniku)
- ⦿ Razhroščevanje in manipulacija kode
 - Sprotno zaznavanje napak v kodi
 - Samodejen in ročen refactoring
- ⦿ Močen iskalni pogon
 - Zmogljiv “search and replace”
 - Regularni izrazi

Eclipse

⊙ Workspace

- Projekt 1
 - Datoteke, mape ter nastavitve
- Projekt 2
 - ...
- Projekt 3
 - ...

⊙ Perspektiva

- PHP
- Subversion
- (Java)

PHPEclipse

- ⊙ Plugin - perspektiva za Eclipse (www.phpeclipse.de)
- ⊙ Pozna PHP sintakso ter njegove vgrajene funkcije
- ⊙ Debugger
- ⊙ Orodja za dokumentacijo in delo z SQL
- ⊙ Povezava z XAMPP
 - = Apache + PHP + MySQL
- ⊙ Orodja za deployment
 - FTP, SFTP in WebDAV

Pogledi (views)

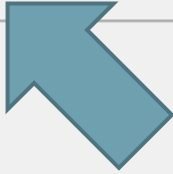
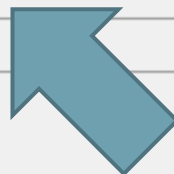
- ⊙ Navigator
 - Prikazuje drevo datotek projekta
 - Običajno vedno prikazan
- ⊙ Konzola
 - Prikazuje obvestila
- ⊙ “Problems”
 - Sintaktične napake v kodi
- ⊙ Obrisi (Outline)
 - Seznam funkcij, razredov in njihovih atributov za posamezno .php datoteko
- ⊙ PHP browser
 - Predogled trenutne .php datoteke

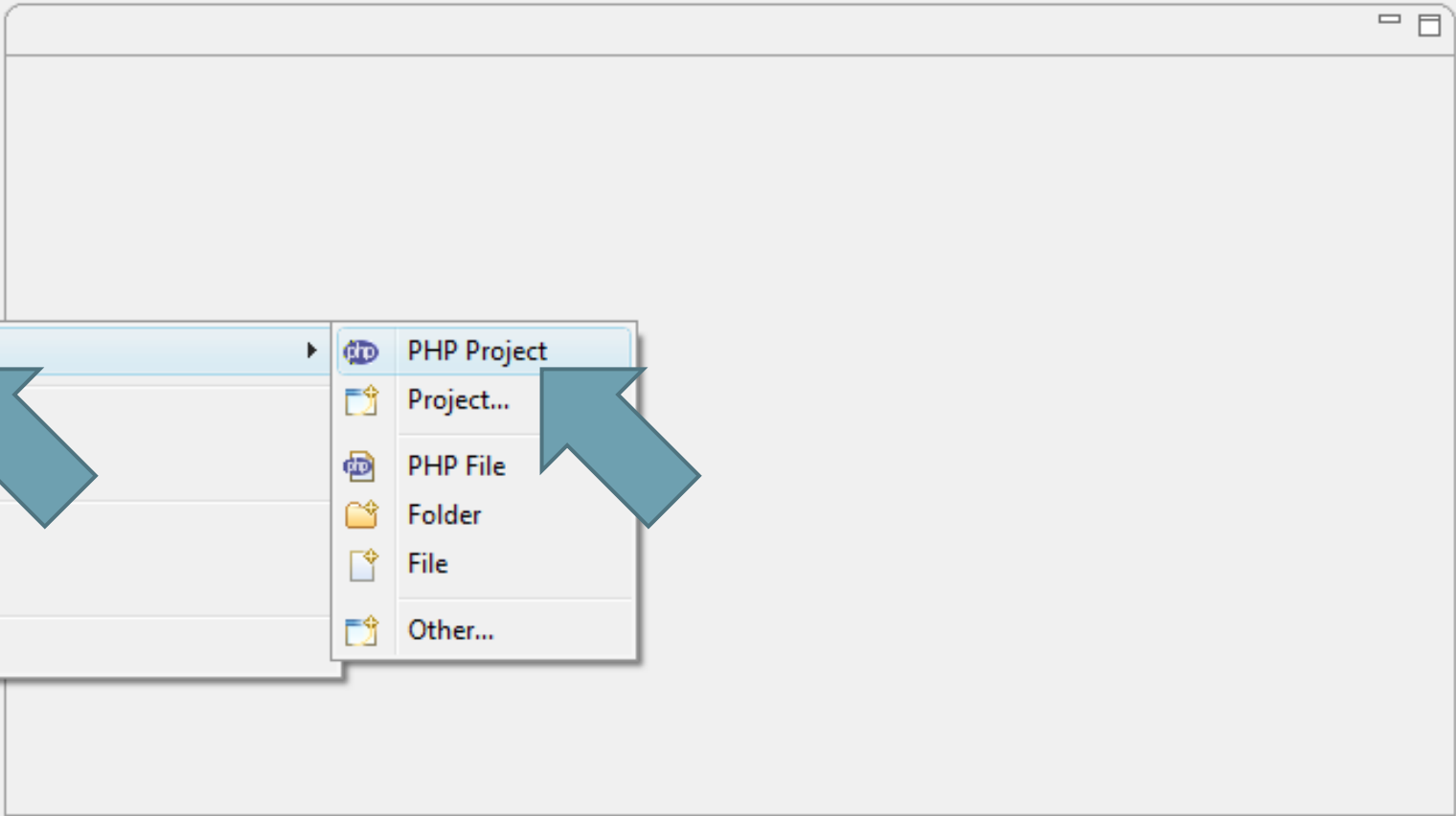
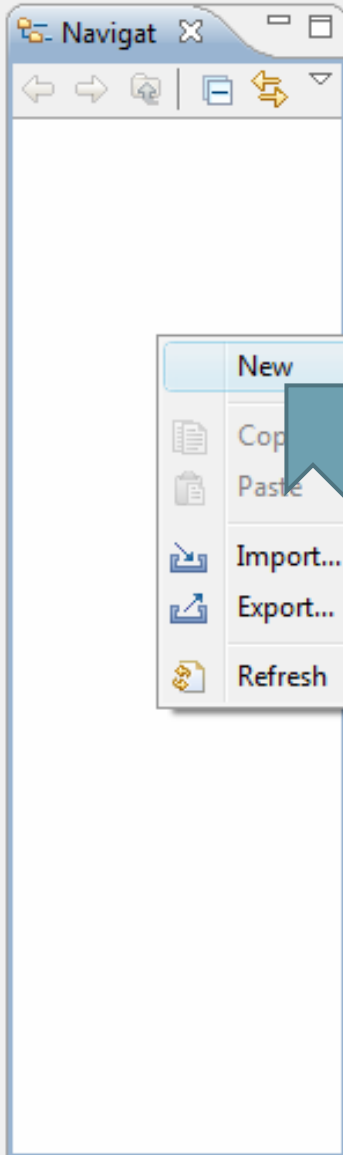
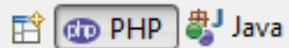


Navigation pane with 'Navigat' tab and navigation icons.

Main editor area.

No consoles to display at this time.





- New
- Copy
- Paste
- Import...
- Export...
- Refresh

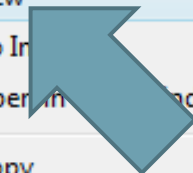
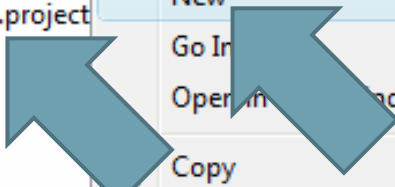
- PHP Project
- Project...
- PHP File
- Folder
- File
- Other...



No consoles to display at this time.



- New
 - PHP Project
 - Project...
 - PHP File
 - Folder
 - File
 - Other...
- Go In...
- Open in New Window
- Copy
- Paste
- Delete
- Move...
- Rename
- Import...
- Export...
- Refresh
- Close Project
- Close Unrelated Projects
- Run As
- Debug As
- Team
- Compare With
- Restore from Local History...
- PDE Tools
- Properties



Navigation pane showing project structure:

- DemoProject
 - inc
 - func~~t~~.php
 - .project
 - index.php

```
<?php  
  
function hey($str) {  
    echo 'hey mr. ' . $str;  
}  
  
?>
```



Bottom status bar with tabs: Problems, Console, Bookmarks, PHP Browser, History. Below the tabs, it says "No consoles to display at this time." At the very bottom, it shows "Writable", "Smart Insert", and "5 : 2".



Navigation pane showing project structure:

- DemoProject
 - inc
 - func.php
 - .project
 - index.php

```
<?php  
  
require_once "inc/func.php";  
hey("Marko");  
  
?>
```



Output pane showing the result of the script execution:

http://localhost/DemoProject/index.php

hey mr. Marko

Done





Navigat

- DemoProject
 - inc
 - func^t.php
 - .project
 - index.php

```
<?php
require_once "inc/funct.php";
hey ("Marko");
?>
```

Parser error "')' expected in function call (hey)."

Problems Console Bookmarks PHP Browser History

http://localhost/DemoProject/index.php

Parse error: syntax error, unexpected ':' in D:\eclipse\workspace\DemoProject\index.php on
Done



Navigat

- DemoProject
 - inc
 - funct.php
 - .project
 - index.php

```
<?php  
function hey($str) {  
    echo 'hey mr. ' . $str;  
}  
class razred1 {  
    var $lol;  
    var $omg;  
    function razred1() {  
    }  
    function hmm() {  
    }  
}  
?>
```



Outline

- hey()
- razred1
 - \$lol:
 - \$omg:
 - razred1()
 - hmm()



Problems Console Bookmarks PHP Browser History

Run, Stop, Refresh, Undo, Redo, Home, End icons

Nadzor različic kode



- ⊙ Skupinsko delo
 - Na istem projektu lahko hkrati dela cela ekipa
 - Možnost zaklepanja datotek – “locking”
- ⊙ Zgodovina sprememb
 - Kadarkoli lahko dostopamo do starejših različic
 - Možno je razdeliti kodo na dve ali več vej in jih kasneje spet združiti
- ⊙ Backup in varnost
 - Celotna koda je shranjena tudi na strežniku
 - Dostop do kode je strogo omejen

Izrazi

⦿ Repozitorij

- Tu je shranjena vsa izvorna koda - trenutna in stara

⦿ Revizija

- Neka različica kode
- Je oštevilčena
- Dodamo lahko tudi komentar - “annotation”

⦿ Trunk (deblo)

- Glavna “veja”, kjer poteka razvoj
- HEAD revizija je aktualna revizija

Operacije

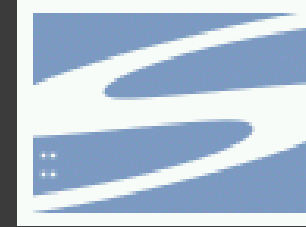
- ⦿ Import
 - Začetni uvoz kode v repozitorij
- ⦿ Check-out
 - Iz strežnika pridobimo neko revizijo (običajno HEAD) in jo zapišemo na lokalni datotečni sistem
 - Delamo s temi datotekami in ne s tistimi na strežniku
- ⦿ Commit
 - Proces, ko našo lokalno delavno različico pošljemo na strežnik – poveča številko revizije za 1
- ⦿ Update
 - Uskladi našo lokalno delavno različico kode s tisto na strežniku
- ⦿ Export
 - Izvoz kode na produkcijo (brez metapodatkov)

Operacije



- ⦿ Tagging
 - Označevanje skupine datotek
 - Označevanje za minor/major različice našega softwarea
- ⦿ Branching
 - Kodo razdelimo na več vej, ki jih nato neodvisno razvijamo
- ⦿ Merging
 - Združimo lahko veje, ki smo jih ustvarili z branchingom
 - Združimo lahko tudi spremembe dveh razvijalcev, ki delata na isti datoteki

Subversion (SVN)



- ⦿ Sistem za nadzor različic kode
- ⦿ CollabNet (subversion.tigris.org)
- ⦿ Izboljšava sistema CVS
- ⦿ Kodo lahko shranjuje v datotečnem sistemu ali pa v podatkovni bazi
- ⦿ “Properties”
 - `svn:ignore`
 - `svn:needs-lock`
 - `svn:eol-style`

Subclipse

- ⦿ Plugin za Eclipse (subclipse.tigris.org)
- ⦿ Se integrira v perspektivo PHP
- ⦿ Omogoča ustvarjanje novega projekta iz repozitorija (check out)
- ⦿ Hitro dostopni operaciji Commit ter Update
- ⦿ Enostavno reševanje konfliktov
 - Samodejno in ročno



index.php

```
<?php
```

```
ct.php";
```

The main editor window displays the code for 'index.php'. The first line is '<?php' and the second line is 'ct.php";'. A green horizontal bar highlights the second line. A context menu is open over the first line, listing various actions such as 'New', 'Go Into', 'Open in New Window', 'Copy', 'Paste', 'Delete', 'Move...', 'Rename', 'Import...', 'Export...', 'Refresh', 'Close Project', 'Close Unrelated Projects', 'Run As', 'Debug As', 'Team', 'Compare', 'Restore from History...', 'PDE Tools', and 'Properties'. The 'Team' option is highlighted, and a sub-menu is open over it, showing 'Apply Patch...' and 'Share Project...'. A blue arrow points to the 'Team' option, and another blue arrow points to the 'Share Project...' option.

marks PHP Browser History

Apply Patch...

Share Project...

Demo

The bottom part of the screenshot shows the 'PHP Browser' view with tabs for 'marks', 'PHP Browser', and 'History'. The 'PHP Browser' tab is active, showing a dropdown menu with 'ch...' and a toolbar with icons for navigation and development. The 'Share Project...' option is highlighted in the sub-menu. The status bar at the bottom left shows 'Demo'.

Share Project...

◎ URL repozitorija

- `svn://streznik:vrata/repozitorij`
- `svn+ssh://streznik:vrata/repozitorij`
- `http://streznik:vrata/repozitorij`
- `https://streznik:vrata/repozitorij`

◎ Dostop

- Username in geslo
- Certifikat
- Samo checkout/export

File Edit Navigate

Demoproject

- inc
- funct.php
- .project
- index.php

Commit to: svn+ssh://89.212.188.186:1986/var/svn/DemoProject

Edit the commit comment:

Initial import.

<Choose a previously entered comment>

[Configure Comment Templates...](#)

Checked resources will be committed to SVN version control.

Resource	Text Status	Property Status
<input checked="" type="checkbox"/> .project	unversioned	
<input checked="" type="checkbox"/> inc	unversioned	
<input checked="" type="checkbox"/> /inc/funct.php	unversioned	
<input checked="" type="checkbox"/> index.php	unversioned	

Select All Keep locks


OK Cancel

HP Java

Navigat

- DemoProject
 - inc
 - func^t.php
 - .project
 - index.php

```
<?php  
require_once "inc/funct.php";  
hey("Marko Štamcar");  
?>
```



Problems Console Bookmarks PHP Browser History

http://localhost/DemoProject/index.php

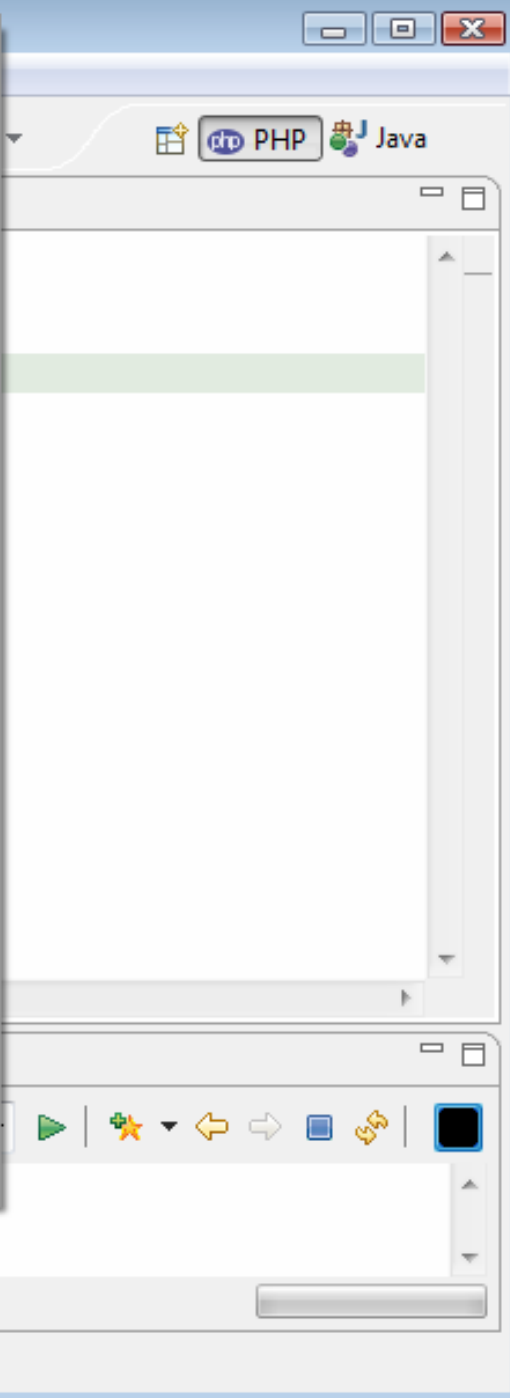
hey mr. Marko Štamcar

Done



- New
- Go Into
- Open in New Window
- Copy
- Paste
- Delete
- Move...
- Rename
- Import...
- Export...
- Refresh
- Close Project
- Close Unrelated Projects
- Run As
- Debug As
- Team
- Compare...
- Replace with...
- Restore from Local History...
- PDE Tools

- Synchronize with Repository
- Commit...
- Update
- Create Patch...
- Apply Patch...
- Branch/Tag...
- Merge...
- Switch to another Branch/Tag...
- Show History
- Add to Version Control
- Add to svnignore...
- Show Properties
- Set Property...
- Revert...
- Edit conflicts
- Mark Resolved
- Copy...
- Export...
- Configure Branches/Tags...
- Cleanup
- Disconnect...





DemoProject

- inc
- funct.php
- .project
- index.php

Commit to: svn+ssh://89.212.188.186:1986/var/svn/DemoProject

Edit the commit comment:

Marko --> Marko Štamcar

<Choose a previously entered comment>

[Configure Comment Templates...](#)

Checked resources will be committed to SVN version control.

Resource	Text Status	Property Status
<input checked="" type="checkbox"/> index.php	modified	

Select All Deselect All Keep locks

OK Cancel





Navigat

- DemoProject
 - inc
 - func.t.php
 - .project
 - index.php

```
<?php
require_once "inc/func.t.php";
hey("Marko Štamcar");
?>
```

/index.php in svn+ssh://89.212.188.186:1986/var/svn/DemoProject

Re...	Tags	Date	Author	Comment
*3		24.6.08 21:58	Marko	Marko --> Marko Štamcar
2		24.6.08 21:56	Marko	Initial import.

A...	Affected paths	Description
M	/DemoProject/index...	Marko --> Marko Štamcar





PHP DemoProject

- inc
- func.php
- .project
- index.php

index.php Compare index.php 3 and 2

Text Compare

index.php 3	index.php 2
<?php	<?php
require_once "inc/func.php";	require_once "inc/func.php";
hey("Marko Štamcar");	hey("Marko");
?>	

Problems Console Bookmarks PHP Browser History

/index.php in svn+ssh://89.212.188.186:1986/var/svn/DemoProject

Re...	Tags	Date	Author	Comment
*3		24.6.08 21:58	Marko	Marko --> Marko Štamcar
2		24.6.08 21:56	Marko	Initial import.


A...	Affected paths	Description
M	/DemoProject/index....	Marko --> Marko Štamcar

Uporabnik "Mirko"

```
<?php  
require_once "inc/funct.php";  
hey("Marko Štamcar");  
?>
```



```
<?php  
require_once "inc/funct.php";  
hey("Mirko");  
?>
```





Navigat

- DemoProject
 - inc
 - funcnt.php
 - .project
 - index.php

```
<?php
require_once "inc/funcnt.php";
hey("Marko Štamcar");
echo "<br />" . rand(5,10);
?>
```



Problems Console Bookmarks PHP Browser History

SVN

```
Committed revision 3.
commit -m "" D:/eclipse/workspace/DemoProject/index.php
Sending      D:/eclipse/workspace/DemoProject/index.php
Transmitting file data ...
svn: Commit failed (details follow):
svn: Commit failed (details follow):
svn: Out of date: DemoProject/index.php' in transaction '4-1'
```





Navigation pane showing project structure:

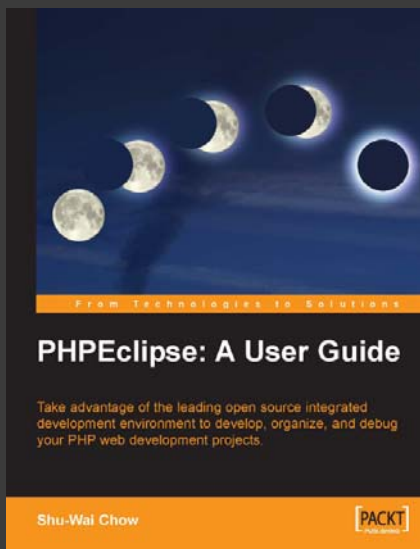
- DemoProject
 - inc
 - func.php
 - .project
 - index.php

```
<?php  
  
require_once "inc/func.php";  
hey("Mirko");  
echo "<br />" . rand(5,10);  
  
?>
```

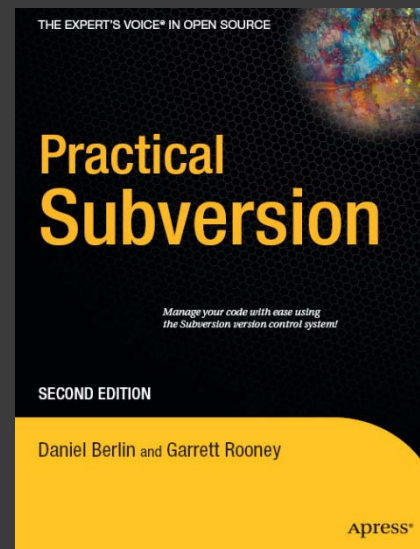
SVN console output:

```
Updated to revision 4.  
==== File Statistics: ====  
Merged: 1  
commit -m "" D:\eclipse\workspace/DemoProject/index.php  
Sending D:\eclipse\workspace/DemoProject/index.php  
Transmitting file data ...  
Committed revision 5.
```

Za konec



Shu-Wai Chow:
PHPEclipse: A User
Guide



Daniel Berlin in
Garrett Rooney:
Practical Subversion

🕒 Vprašanja?