GitHub:
Tool to teach
Software development

Aurelijus Banelis

Aurelijus Banelis

Backend/DevOps

aurelijus.banelis.lt
aurelijus@banelis.lt

PGP   0x320205E7**539B6203**
130D C446 1F1A 2E50 D6E3
3DA8 3202 05E7 539B 6203

GitHub for
teaching

| Why | Market of Soft-Devs
Goal of education |
| How | GitHub + Video
From student
From teacher |
| Alternatives | MediaWiki
GitLab
Conference talk |

Why	**Market of Soft-Devs** **Goal of education**
How	**GitHub + Video** **From student** **From teacher**
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DEMAND/SUPPLY RATIO BY OCCUPATION

← Supply Exceeds Demand | Demand Exceeds Supply →

Occupation	Ratio
Healthcare Practitioners	44%
Business and Financial Operations	21%
Computer and Mathematical	17%
Architecture and Engineering	15%
Transportation and Material Moving	13%
Healthcare Support	9%
Building and Grounds Cleaning and Maintenance	9%
Life, Physical, and Social Science	5%
Office and Administrative Support	5%
Farming, Fishing, and Forestry	5%
Sales	5%
Installation, Maintenance, and Repair	
Personal Care	
Production	-3%
Food Preparation and Service	-13%

Supply vs Demand

Talent based

Experiments

GitHub + Video

2019 04 23 Symfony karkasas / 2 dalis. Aurelijus Banelis

Tavo atsakymai padės mums geriau suprasti ar viską darome gerai ir kur mums reikia pasitempti :)

*Privaloma

El. pašto adresas *

El. pašto adresas

1. Kaip vertini užsiėmimo naudingumą/ aktualumą? (1 - visai nenaudingas, 5 - labai naudingas...

1   2   3   4   5

2. Įvertink paskaitos sudėtingumą pagal tavo turimą žinių lygį (1 - visai nesudėtinga, 5 - labai sudėtinga) *

1   2   3   4   5

3. Kaip aiškiai ir suprantamai pateikta teorinės paskaitos dalies medžiaga? (Vertinti tik tuo atveju, jei teorija buvo dėstoma. 1 - visai neaiškiai, 5 - tobulai) *

1   2   3   4   5

4. Kaip aiškiai ir suprantamai išdėstyta praktinės paskaitos dalis? (Vertinti tik tuo atveju, jei praktinė dalis buvo dėstoma. 1 - visai neaiškiai, 5 - tobulai) *

1   2   3   4   5

5. Užbaik, prašau, sakinį. Šiame užsiėmime man labiausiai patiko.. *

Jūsų atsakymas

6. Užbaik, prašau, sakinį. Šiame užsiėmime man labiausiai trūko.. *

Jūsų atsakymas

Atsiųsti mano atsakymų kopiją.

PATEIKTI

Niekada nepateikite slaptažodžių per „Google" formas.

Why	**To find talents: can use not traditional teaching**
How	**GitHub + Video** **From student** **From teacher**
Alternatives	**MediaWiki** **GitLab** **Conference talk**

Why	Market of Soft-Devs
	Goal of education
How	GitHub + Video
	From student
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How it looks?
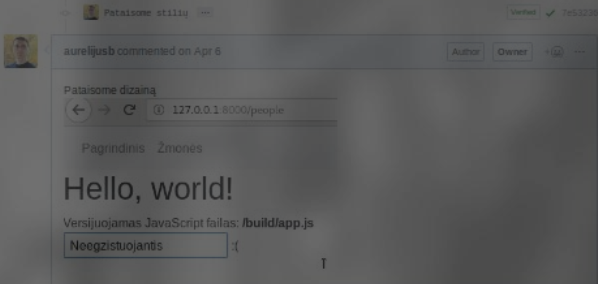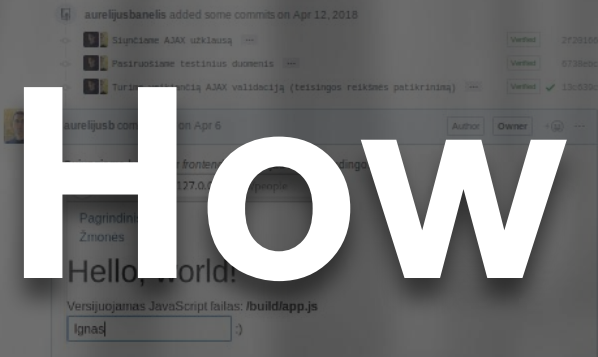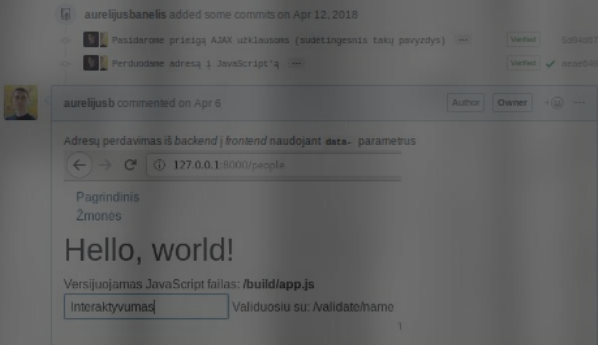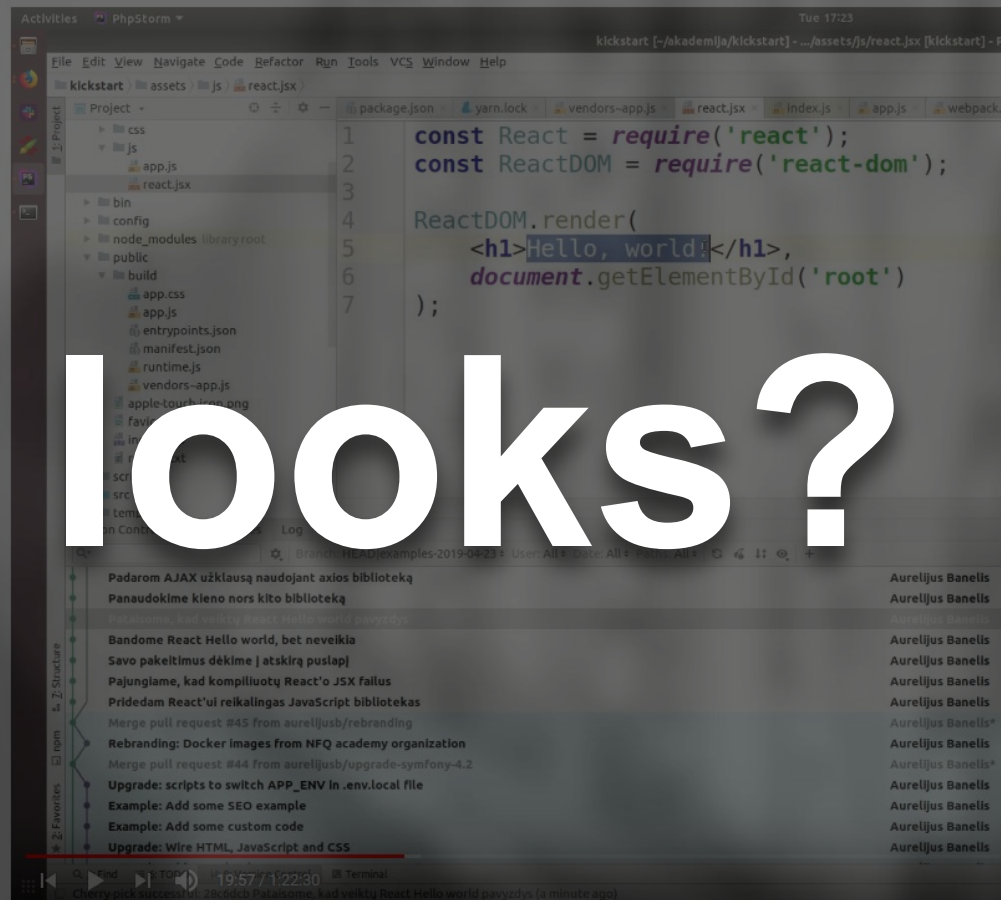
2019-04-23 Pavyzdžiai paskaitai: Symfony 2 #38

Edit

Open · aurelijusb wants to merge 18 commits into `master` from `examples-2019-04-23`

💬 Conversation 6 | ⊙ Commits 18 | ☑ Checks 0 | 📄 Files changed 9

+321 −6 ▪▪▪▪▪

aurelijusb commented on Apr 1 · edited ▾   Owner   +😊 ···

Svetainės su sudėtingesniu Frontend'u pavyzdys (`Symfony 4.2`)

- Symfony Encore
- React bibliotekos pridėjimas
- AJAX bibliotekos pridėjimas
- Sudėtingesni takai (routes)
- Sudėtingesni kontroleriai (duomenų validacija)
- Kontrolerių, Twig ir JavaScript sujungimas

Analogiškas `Symfony 4.1` pavyzdys: #15

aurelijusb and others added some commits on Apr 1

Pridedam React'ui reikalingas JavaScript bibliotekas ···	Verified		ec02ddc
Pajungiame, kad kompiliuotų React'o JSX failus ···	Verified		d7700f0
Bandome React Hello world, bet neveikia ···	Verified		6eb1bb8
Pataisome, kad veiktų React Hello world pavyzdys ···	Verified	●	28c6dcb
Savo pakeitimus dėkime į atskirą puslapį ···	Verified		8f3ca84

aurelijusb commented on Apr 1 · edited ▾   Author   Owner   +😊 ···

Turime **React** Hello world:

← → C ⓘ 127.0.0.1:8000/people

Hello, world!

Reviewers ⚙
No reviews

Assignees ⚙
No one—assign yourself

Labels ⚙
Examples

Projects ⚙
None yet

Milestone ⚙
No milestone

Notifications   Customize
🔇 Unsubscribe

You're receiving notifications because you authored the thread.

2 participants

🔒 Lock conversation

---

aurelijusbanelis added some commits on Apr 12, 2018

Pasidarome prieigą AJAX užklausoms (sudėtingesnis takų pavyzdys) ···	Verified	5d94d87
Perduodame adresą į JavaScript'ą ···	Verified ✓	aeae648

aurelijusb commented on Apr 6   Author Owner +😊 ···

Adresų perdavimas iš *backend* į *frontend* naudojant `data-` parametrus

← → C ⓘ 127.0.0.1:8000/people

Pagrindinis
Žmonės

Hello, world!

Versijuojamas JavaScript failas: /build/app.js

| Interaktyvumas | Validuosiu su: /validate/name

aurelijusbanelis added some commits on Apr 12, 2018

Siunčiame AJAX užklausą ···	Verified	2f29166
Pasiruošiame testinius duomenis ···	Verified	6738ebc
Turime veikiančią AJAX validaciją (teisingos reikšmės patikrinimą) ···	Verified ✓	13c639c

aurelijusb commented on Apr 6   Author Owner +😊 ···

Sujungiame *backend* ir *frontend* ir turime jau kažką naudingo:

← → C ⓘ 127.0.0.1:8000/people

Pagrindinis
Žmonės

Hello, world!

Versijuojamas JavaScript failas: /build/app.js

| Ignas | :)

| Pataisome stilių ··· | Verified ✓ | 7e53296 |

aurelijusb commented on Apr 6   Author Owner +😊 ···

Pataisome dizainą

← → C ⓘ 127.0.0.1:8000/people

Pagrindinis   Žmonės

Hello, world!
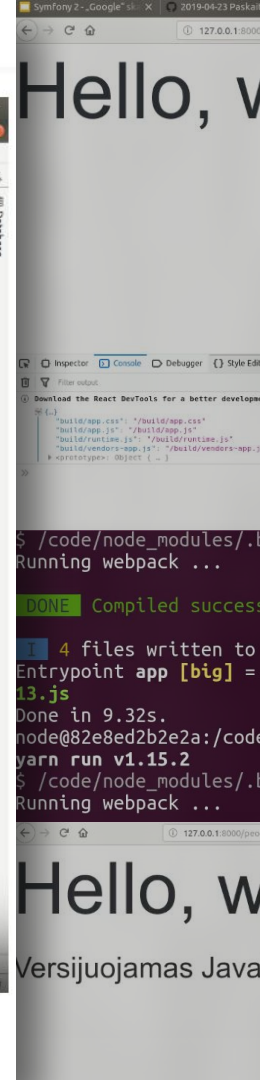
Versijuojamas JavaScript failas: /build/app.js

| Neegzistuojantis | :(

📑 **aurelijusb** referenced this pull request on Apr 6
2019-04-23 Paskaitos užrašai #39   **Open**

```
const React = require('react');
const ReactDOM = require('react-dom');

ReactDOM.render(
    <h1>Hello, world!</h1>,
    document.getElementById('root')
);
```

Activities   PhpStorm   Tue 17:23

kickstart [~/akademija/kickstart] - .../assets/js/react.jsx [kickstart] - PhpStorm

File Edit View Navigate Code Refactor Run Tools VCS Window Help

kickstart > assets > js > react.jsx   UnitTestai   Git:

Project
  css
  js
    app.js
    react.jsx
  bin
  config
  node_modules library root
  public
    build
      app.css
      app.js
      entrypoints.json
      manifest.json
      runtime.js
      vendors~app.js
    apple-touch-icon.png
    favicon.ico
    index.php
    robots.txt
  scripts
  src
  templates

package.json | yarn.lock | vendors~app.js | react.jsx | index.js | app.js | webpack.config.js | base.html.twig | index.html.twig

h1

Version Control: Local Changes Log Console

Branch: HEAD|examples-2019-04-23   User: All   Date: All   Paths: All

Padarom AJAX užklausą naudojant axios biblioteką   Aurelijus Banelis   11/04/18 23:43
Panaudokime kieno nors kito biblioteką   Aurelijus Banelis   06/04/19 09:51
Pataisome, kad veiktų React Hello world pavyzdys   Aurelijus Banelis   11/04/18 22:54
Bandome React Hello world, bet neveikia   Aurelijus Banelis   11/04/18 22:45
Savo pakeitimus dėkime į atskirą puslapį   Aurelijus Banelis   01/04/19 21:52
Pajungiame, kad kompiliuotų React'o JSX failą   Aurelijus Banelis   11/04/18 22:35
Pridedam React'ui reikalingą JavaScript biblioteką   Aurelijus Banelis   01/04/19 21:44
Merge pull request #45 from aurelijusb/rebranding   Aurelijus Banelis*   31/03/19 18:02
Rebranding: Docker images from NFQ academy organization   Aurelijus Banelis   31/03/19 18:01
Merge pull request #44 from aurelijusb/upgrade-symfony-4.2   Aurelijus Banelis*   30/03/19 20:23
Upgrade: scripts to switch APP_ENV in .env.local file   Aurelijus Banelis   30/03/19 17:26
Example: Add some SEO example   Aurelijus Banelis   30/03/19 16:42
Example: Add some custom code   Aurelijus Banelis   30/03/19 16:11
Upgrade: Wire HTML, JavaScript and CSS   Aurelijus Banelis   30/03/19 16:06
```

/home/abanelis/akademija/kickstart/assets/js  1 file
  react.jsx

Pataisome, kad veiktų React Hello world pavyzdys

Klaidą buvo galima patyti per Naršyklės konsolę:
ReferenceError: ReactDOM is not defined

Esmė: React'ą turėjome node_modules (prisiminkime yarn...
komanda), bet WebPack Encore nežinojo, kad reikia jį
įtraukti.

Dokumentacija (neatsimenu, kur radau, bet čia geras
pavyzdys):

```
Find    TODO         Terminal
```

Cherry-pick successful: 28c6dcb Pataisome, kad veiktų React Hello world pavyzdys (a minute ago)

13 chars   5:22   LF   UTF-8   Git: lecture-2019-04-23   Symfony

19:57 / 1:22:30

Symfony 2 - „Google" sk...   2019-04-23 Paskai

127.0.0.1

Hello, w

Inspector   Console   Debugger   Style Edi

Filter output

Download the React DevTools for a better developmen

```
"build/app.css": "/build/app.css",
"build/app.js": "/build/app.js",
"build/runtime.js": "/build/runtime.js",
"build/vendors-app.js": "/build/vendors-app.js"
prototype: Object ( _ )
```

$ /code/node_modules/.b
Running webpack ...

DONE Compiled success

4 files written to
Entrypoint app [big] =
13.js
Done in 9.32s.
node@82e8ed2b2e2a:/code
yarn run v1.15.2
$ /code/node_modules/.b
Running webpack ...

127.0.0.1:8000/pe

Hello, w

Versijuojamas Java

Symfony 2 @ NFQ Akademija (2019-04-23)

Unlisted

aurelijusbanelis added some commits on Apr 12, 2018

Pasidarome prieigą AJAX užklausoms (sudėtingesnis takų pavyzdys)   5d04d67

...

```
Symfony turi galingą takų (angl. route) sistemą,
tai galima perduoti argumentus užklausoje, kaip argumentus į funkciją.

Pasidarome apribojimą, kad būtų galima kviesti tik per POST metodą.
Vis dar nėra kaip pilnai ištestuoti.

Galima tik patikrinti per scripts/backend.sh
  bin/console debug:router
  bin/console debug:router validatePerson

Naujausioje Symfony versijoje SensioFrameworkExtraBundle yra sudėtas
į Symfony core dalį. Todėl nėra "@method" anotacijos.

Dokumentacija:
  https://symfony.com/doc/current/routing.html
  https://symfony.com/doc/current/routing/requirements.html
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Perduodame adresą į JavaScript'ą   ...   ✔ aeae640

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Documentation

Perduodame adresą į JavaScript'ą   ...   Verified ✓ aeae640

Symfony 4.3.0 released
Read release notes
May 30, 2019   Fabien Potencier

Symfony 4.3.0-RC1 released
Read release notes
May 28, 2019   Fabien Potencier

Symfony 4.2.9 release
Read release notes
May 28, 2019   Fabien Potencier

Symfony 4.3 curated new features
Read release notes
May 28, 2019   Fabien Potencier

Symfony 3.4.28 released
Read release notes
May 28, 2019   Fabien Potencier

Apr 12, 2018

s (sudėtingesnis takų pavyzdys)   Verified   5d04d67

e) sistemą,

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rson

rameworkExtraBundle yra sudėtas
hod" anotacijos.

ting.html
ting/requirements.html

...   Verified   ✓ aeae640

Update

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kend.sh

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Documentation

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Symfony 2 #53

⑂ Open   **RU55CK** wants to merge 5 commits into `aurelijusb:lecture-2019-04-23` from `RU55CK:lecture-2019-04-23` 📋

💬 Conversation 5   -○- Commits 5   ✓ Checks 0   ▤ Files changed 4

RU55CK commented on Apr 30   First-time contributor   +😊   ⋯

No description provided.

RU55CK added some commits on Apr 27

- ▦ front-end validation   95a17e4
- ▦ back-end validation   1fd9d46
- ▦ Changed command to team, updated style.   ✕ 068d6b3

👁 **aurelijusb** reviewed on May 4   **View changes**

.idea/kickstart.iml   Outdated   ⚙ Show resolved

👁 **aurelijusb** reviewed on May 4   **View changes**

src/Controller/PeopleController.php   Outdated   ⚙ Show resolved

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src/Controller/PeopleController.php

```
129  +        $team = [];
130  +        $storage = json_decode($this->getStorage(), true);
131  +        foreach ($storage as $key => $t) {
132  +
```

aurelijusb on May 4   Owner   +😊   ⋯

Namų darbui nėra aktualu, bet yra gera praktika komandoje susitarti kodavimo stilių.

Tada sujungiant pakeitimus eilutės nesiskirtų tik tarpų skaičiumi.
PHPStorm turi mygtuką automatiniam suformatavimui.

Plačiau:

- https://www.jetbrains.com/help/phpstorm/reformat-file-dialog.html
- https://www.php-fig.org/psr/psr-2/
- https://travis-ci.org/aurelijusb/kickstart/builds/526579908#L528
- https://github.com/squizlabs/PHP_CodeSniffer

Reply…

Resolve conversation

aurelijusb commented on May 4   Owner   +😊   ⋯

✕ Jei sutvarkytum .gitignore failą – būtų idealu

➕ New changes since you last viewed   **View changes**

▦ **RU55CK** added some commits on May 6

- ▦ gitignore and array_keys   ✕ 97884ed
- ▦ added gitignore and changed to array_keys   ✕ dd19827

aurelijusbanelis commented on May 30   Collaborator   +😊   ⋯

✓ Įvertinimas pakeltas

Symfony 2 #53

⑂ Open   **RU55CK** wants to merge 5 commits in[o] `aurelijusb:lecture-2019-04-23` [r]om `RU55CK:lecture-2019-04-23`

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RU55CK commented on Apr 30   [rst-time contributor]

Continue

No description provided.

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✔ Įvertinimas pakeltas

<> Code   Pull requests 46   Actions   Projects 0   Wiki   Security   Insights   Settings

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```

aurelijusb on May 4   Owner

Namų darbui nėra aktualu, bet yra gera praktika komandoje susitarti kodavimo stilių.

Tada sujungiant pakeitimus eilutės nesiskirtų tik tarpų skaičiumi.
PHPStorm turi mygtuką automatiniam suformatavimui.

Plačiau:

- https://www.jetbrains.com/help/phpstorm/reformat-file-dialog.html
- https://www.php-fig.org/psr/psr-2/
- https://travis-ci.org/aurelijusb/kickstart/builds/526579908#L528
- https://github.com/squizlabs/PHP_CodeSniffer

Reply…

Resolve conversation

aurelijusb commented on May 4   Owner

✗ Jei sutvarkytum `.gitignore` failą – būtų idealu

Allow to improve

New changes   View changes

RU55CK added some commits on May 6

- gitignore   d array_keys   ✗ 97884
- added giti   y_   ✗ dd198

aurelijusbanelis commented on May 30   Collaborator

✓ Įvertinimas pakeltas

Why	**Market of Soft-Devs** **Goal of education**
How	**Small steps as commits** **Video↔Commit message** **From overview to details**
Alternatives	**MediaWiki** **GitLab** **Conference talk**

Why	**Market of Soft-Devs** **Goal of education**
How	**GitHub + Video** **From student** **From teacher**
Alternatives	**MediaWiki** **GitLab** **Conference talk**

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Editing NoTrollsAllowed

```
= GitHub: tool to teach software development =

It is XXI century, but we are still us      books a              ware development.
I think we can do b

== In this talk      will learn

* How to use Git      to teach s
* How to balance      ween slow
* How to use Hom     k as exten

== Prerequisites     the atten

No programming/e    tional ski
```

Summary:

Added prerequ   s: So atten   of   talk

☐ This is a mi   edit   Wat

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Editing NoTrollsAllowed

```
= GitHub: tool to teach software development =

It is XXI century, but we are still using books and code sample in Slides to teach software development.
I think we can do better.

== In this talk you will learn ==

* How to use GitHub to teach software development
* How to balance between slow and fast learners
* How to use Homework as extension of a lecture

== Prerequisites for the attendees ==

No programming/educational skills are needed
```

Name your change

Summary:

Added prerequisites: So attendees could prepare in advance or evaluate expected complexity of the talk

☐ This is a minor edit   ☑ Watch this page

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└──┘

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Legend: **(cur)** = difference with latest revision, **(prev)** = difference with preceding revision, **m** = minor edit.

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- (cur | prev) ⊙ 17:05, 15 July 2019 Aurelijus (talk | contribs | block) . . (360 bytes) (+132) . . *(Added introduction. So non technical people could understand what to expect)* (undo)
- (cur | prev) ⊙ 17:02, 15 July 2019 Aurelijus (talk | contribs | block) . . (228 bytes) (+5) . . *(Add formatting (headings and list). Documentation: https://www.mediawiki.org/wiki/Help:Formatting)* (undo)
- (cur | prev) ○ 17:00, 15 July 2019 Aurelijus (talk | contribs | block) . . (223 bytes) (+203) . . *(Add simple information about the talk)* (undo)
- (cur | prev) ○ 16:56, 15 July 2019 Aurelijus (talk | contribs | block) . . (20 bytes) (+20) . . *(Start with empty page)*

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- Project
- Repository
- Issues 0
- Merge Reques...
- CI / CD
- Operations
- Wiki
- Snippets
- Settings

3 commits and 1 merge commit will be added to master. Modify merge commit

You can merge this merge request manually using the command line

👍 0   👎   🙂

Discussion 0 · Commits 3 · Pipelines 1 · Changes 1

15 Jul 201...

...on ···   ...ied 5fa5a33

...3 minutes ago

...echnical people c... ...stand ...hat t... ...ect

Added formatting ···   Unverified a12a7b0c

Aurelijus authored 5 minutes ago

Documentation:
* https://github.com/adam-p/markdown-here/wiki/Markdown-Cheatsheet

Add simple information about the talk   Unverified f25ee2db

Aurelijus authored 6 minutes ago

GitLab

Overview   Active   Stale   All

Filter by branch name

Delete merged branches

New branch

Protected branches can be managed in project settings.

Active branches

ᛉ **example-2019-07-26**
◦― c6fa5a33 · Added introduction · just now

0 3

Merge request   Compare

ᛉ **master** default protected
◦― 9f36e7e6 · Added README.md · 8 minutes ago

Terminology

Source branch   example-2019-07-26

Target branch   master   Change branches

☐ Delete source branch when merge request is accepted.

☐ Squash commits when merge request is accepted. ❓

Submit merge request

N   **NTA**

🏠 Project

🗄 Repository

⫿ Issues   0

⑂ **Merge Requests**   1

⚙ CI / CD

⚙ Operations

🗎 Wiki

✂ Snippets

⚙ Settings

> **3 commits** and **1 merge commit** will be added to master. Modify merge commit

You can merge this merge request manually using the command line

👍 0   👎 0   😊

See all small steps

Discussion 0   **Commits 3**   Pipelines 1   Changes 1

15 Jul, 2019 3 commits

Added introduction •••   Unverified   ⏸   `c6fa5a33`   ⧉
Aurelijus authored 3 minutes ago

| So non technical people could understand what to expect

Added formatting •••   Unverified   `a12a7b0c`   ⧉
Aurelijus authored 5 minutes ago

| Documentation:
| * https://github.com/adam-p/markdown-here/wiki/Markdown-Cheatsheet

Add simple information about the talk   Unverified   `f25ee2db`   ⧉
Aurelijus authored 6 minutes ago

Let's compare simple examples

17

```
function formatter($city, $language, $event)
{
  print "City: $city\n";
  print "Language: $language\n";
  print "Event: $event\n";
}

function main()
{
  print "Parsing started...\n";
  formatter("Vilnius", "PHP", "0x4F");
  print "Finished...\n";
}

main();
```

```
Parsing started...
City: Vilnius
Language: PHP
Event: 0x4F
Finished...
```

```
function formatter()
{
  $city = (yield);
  print "City: $city\n";
  $language = (yield);
  print "Language: $language\n";
  $event = (yield);
  print "Event: $event\n";
}

function main()
{
  $p = formatter();
  print "Parsing started...\n";
  $p->send("Vilnius");
  print "Parsing...\n";
  $p->send("PHP");
  print "Parsing...\n";
  $p->send("0x4F");
  print "Finished...\n";
}

main();
```

```
Parsing started...
City: Vilnius
Parsing...
Language: PHP
Parsing...
Event: 0x4F
Finished...
```

18

Parsing started...
City: Vilnius
Language: PHP
Event: 0x4F
Finished...

Parsing started...
City: Vilnius
Parsing...
Language: PHP
Parsing...
Event: 0x4F
Finished...

Parsing started...

"Vilnius"

"PHP"

"0x4F"

City: Vilnius

Language: PHP

Event: 0x4F

Finished...

Parsing started...

"Vilnius"

"PHP"

"0x4F"

Finished...

```
function formatter($city, $language, $event)
{
  print "City: $city\n";
  print "Language: $language\n";
  print "Event: $event\n";
}

function main()
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  print "Finished...\n";
}

main();
```

```
function formatter()
{
  $city = (yield);
  print "City: $city\n";
  $language = (yield);
  print "Language: $language\n";
  $event = (yield);
  print "Event: $event\n";
}

function main()
{
  $p = formatter();
  print "Parsing started...\n";
  $p->send("Vilnius");
  print "Parsing...\n";
  print "Parsing...\n";
  $p->send("0x4F");
  print "Finished...\n";
}

main();
```

Link to Gist

Parsing started...
City: Vilnius
Language: PHP
Event: 0x4F
Finished...

Parsing started.
City: Vilnius
Parsing...
Language: PHP
Parsing...
Event: 0x4F
Finished...

Parsing started...

"Vilnius"

"PHP"

"0x4F"

City: Vilnius

Language: PHP

Event: 0x4F

Finished...

Parsing started...

"Vilnius"

"PHP"

"0x4F"

City: Vilni

Language

Event: 0x

Finished...

Instantly share code, notes, and snippets.

aurelijusb / **.gitignore**

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<> Code   Revisions 5

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VilniusPHP 0x4F: Coroutines in PHP: Simple examples

.gitignore   Raw

```
1   .idea
```

README.md   Raw

Code examples: Coroutines in PHP

Simple generator example

Usage:

```
php hello-corutine.php
php generators.php
php execution-simple.php
php execution-coroutines.php
```

```php
print "Parsing...\n";
$p->send("0x4F");
print "Finished...\n";
}

main();
```

Link to Gist

```
Parsing started...
City: Vilnius
Language: PHP
Event: 0x4F
Finished...
```

```
Parsing started...
City: Vilnius
Parsing...
Language: PHP
Parsing...
Event: 0x4F
```

Why	**Market of Soft-Devs** **Goal of education**
How	**GitHub + Video** **From student** **From teacher**
Alternatives	**History and link to version**

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How	**GitHub + Video** **From student** **From teacher**
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Thank you

Questions?

Further reading/references

- **https://docs.gitlab.com/omnibus/docker/**
- **https://github.com/aurelijusb/kickstart/pull/38**
- **https://hub.docker.com/_/mediawiki**