Plat_Forms

The web development platform comparison

Plat_Forms 2007: Some results

2007-06-20

- There are many different web development platforms

- Different people claim different pros and cons for them

- It is hard to find neutral information how they compare

- **Plat_Forms provides such information**

How?

- 9 Teams of 3 meet in one place
  - January 25-26, Congress Center Nürnberg
- Each builds the same system within 30 hours

- Team 3 **Java**:
  abaXX Technology (abaxx.de)

- Team 4 **Java**:
  Accenture Technology Solutions (accenture.de)

- Team 9 **Java**:
  Innoopract Informations-systeme (innoopract.de)

- Team 6 **PHP**:
  OXID eSales (oxid-esales.com)

- Team 7 **PHP**:
  Globalpark (globalpark.de)

- Team 8 **PHP**:
  Zend Technologies (zend.com)

- Team 1 **Perl**:
  Etat de Genève/Optaros (ge.ch, optaros.com).

- Team 2 **Perl**:
  plusW (plusw.de)

- Team 5 **Perl**:
  Revolution Systems (revsys.com)

What: "People by Temperament" Registration for community portal

People by Temperament

Welcome   Registration

Benutzer:
Passwort:

Anmelden

Please register or login with an existing account.

Login name:

First name:*

Last name:*

E-Mail:*

Town:*

Country: Germany

GPS coordinates: Example: 1.5 N , 3.8 W

▶Determine your GPS coordinates here.

Primary live motto:*

Secondary live motto:

Primary Enneagram: none

Secondary Enneagram: none

▶Learn more about the 9 types here.

▶ Add additional Likes

(As you type, you'll get suggestions of other's users preferences)

▶ Add additional Dislikes

(As you type, you'll get suggestions of other's users preferences)

Password:

Repeat password:

Save

What (2):
Trivial Temperament Test (TTT)

- After registration, members can take the TTT personality test
  - to determine their MBTI personality type

"The whole is more than the sum of its parts" ...

- ⦾ is a saying that I never found very convincing
- ⦾ is a very important observation

A small project ...

- ⦾ allows to jump right in
- ⦾ should be planned as well as a big one

Abstract art ...

- ⦾ is often very interesting
- ⦾ tends to annoy me

What (3):
Search for members

- Search for members by complex criteria

Search

Please specify the criterias you want to search for:

Members who...

...are not my Contacts	☐
...not got an RCD from me	☐
...have registered during the last [days]:	< Don't care > ⬍
...have done their TTT since [days]:	< Don't care > ⬍
...are only in my country.	☐
...live around me in [km]:	< Don't care > ⬍

...have following TTT Type [mult. select] *:

ESTJ
ESTP
ESFJ
ESFP
ENTJ
ENTP
ENFJ

...have same primary Enneagram type as me	☐
...have one of my Enneagram types	☐
...have related Enneagram types	☐

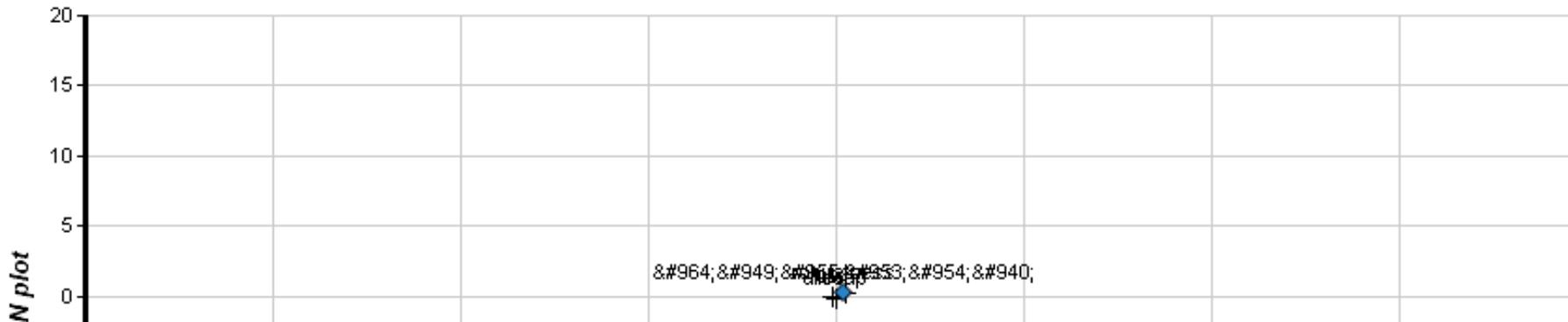# What (4):
Member list (e.g. for search results)

Result

Username	Email	Full name	Town	Country	User's motto	MBTI	Enneagramm
☐ ulisoap	\<not shown>	\<not shown>	Berlin	Germany	foo bar	N/A	none
☐ ulis	\<not shown>	\<not shown>	Berlin	Germany	foo bar	N/A	none
☐ τελικά	\<not shown>	\<not shown>	Berlin	Germany	will	N/A	none

Back   Send RCD

Chart

Plot for x-axis: E-I plot   Plot for y-axis: S-N plot   Refresh chart

Member List Overview

◆ *Yourself*   + *No contact*

τελικά

-N plot

What (5):
Member status page

Your data | Your contacts | Requests to confirm | Requests sent | Contact overview chart

Login name: robustness
Registration date: 5/18/07
First name:* foo
Last name:* Hugo

E-Mail:* foo@bar.de
Town:* foo
Country: Ghana
GPS coordinates: W
►Determine your GPS coordinates here.

Primary live motto:* foo
Secondary live motto:
Primary Enneagram: none
Secondary Enneagram: none
►Learn more about the 9 types here.

MBTI:
Your Keirsey type:
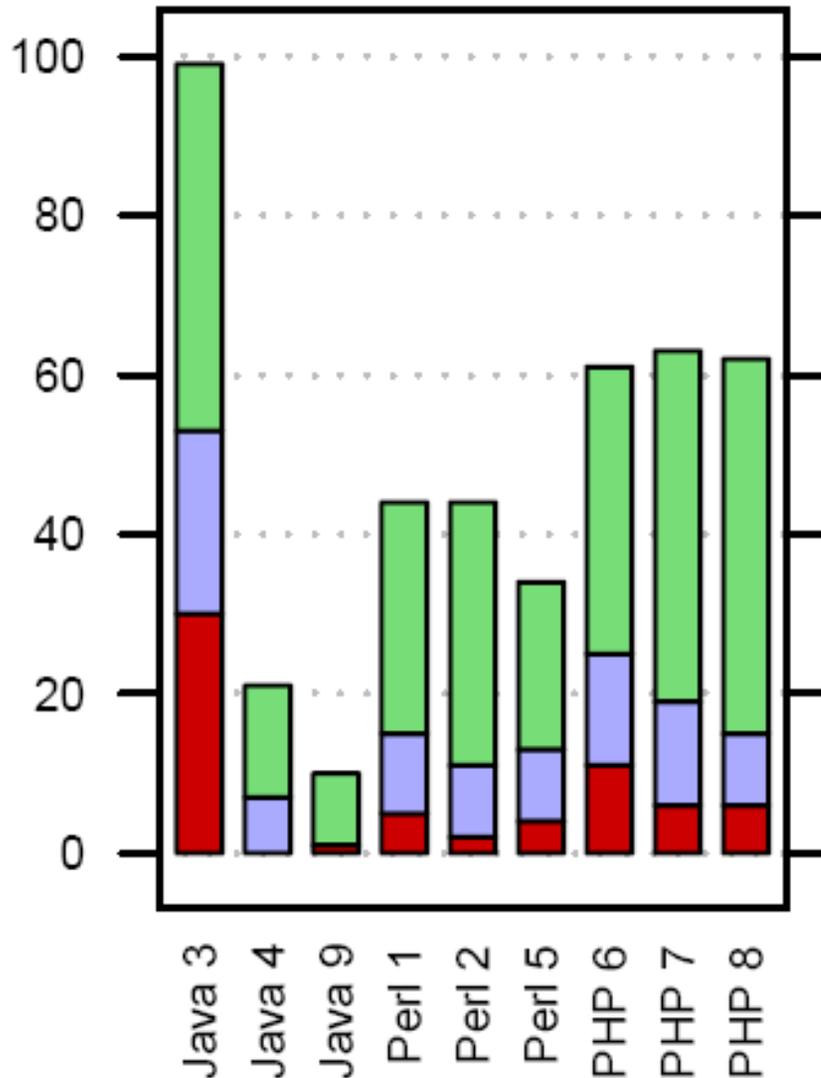Last TTT result:
Date of test:

►Take a new test

What (6):
Further requirements

- The above screenshots showed a solution for the
  108 Web GUI requirements
  - the one delivered by team3 Java (abaXX Technology)

in addition, there were

- 19 requirements regarding a SOAP webservice interface
- 19 non-functional requirements
  - browser compatibility, performance, etc.
- 5 rules describing the form of solution delivery

- Each requirement was marked with priority
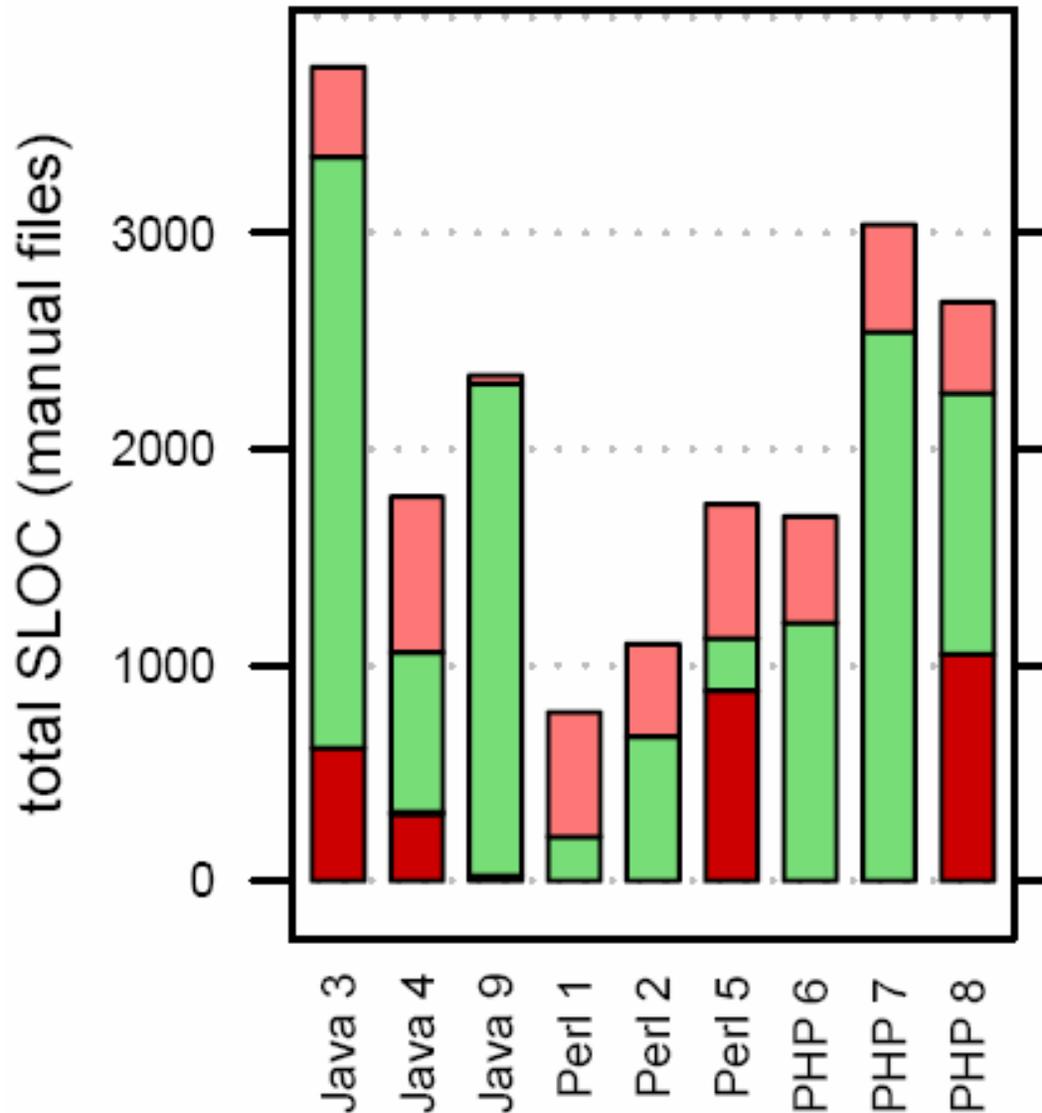 MUST, SHOULD, or MAY

GUI requirements

MUST
SHOULD
MAY

Note:
- Team Java 4 was hampered by a huge VMware setup problem for almost a full day
- Team Java 9 used a framework still in alpha development (RAP)

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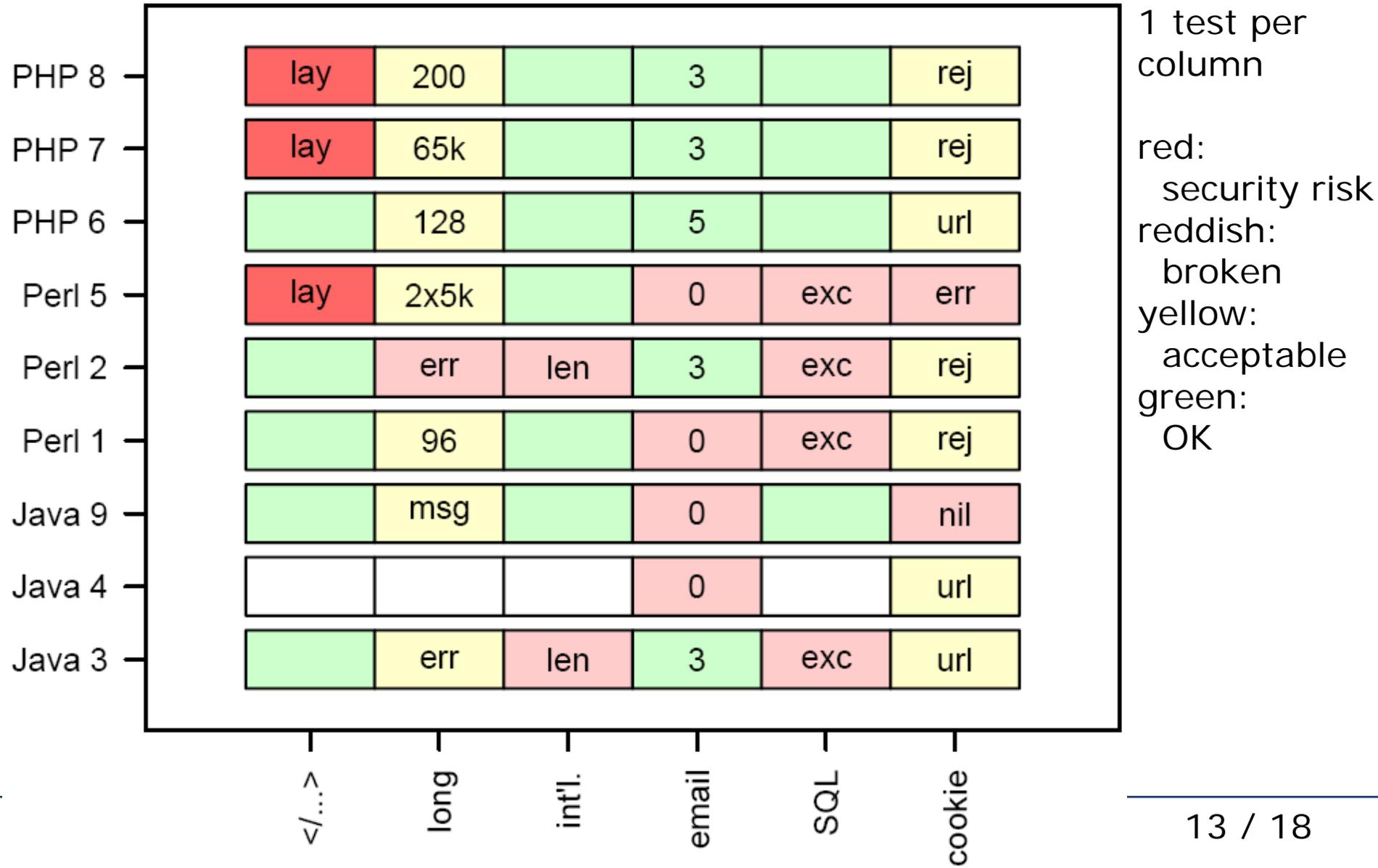source lines-of-code

templ
prog
doc
data

Note:
Further manually written source code resides in modified reused files.

	</...>	long	int'l.	email	SQL	cookie
PHP 8	lay	200		3		rej
PHP 7	lay	65k		3		rej
PHP 6		128		5		url
Perl 5	lay	2x5k		0	exc	err
Perl 2		err	len	3	exc	rej
Perl 1		96		0	exc	rej
Java 9		msg		0		nil
Java 4				0		url
Java 3		err	len	3	exc	url

1 test per column

red:
  security risk
reddish:
  broken
yellow:
  acceptable
green:
  OK

Results: Other

- Many other aspects were compared
    - Ease-of-use
    - Correctness/reliability
    - Modifiability, solution structure
    - Team behavior during the development process
    - Teams' self-reported subjective experience

- Some of them exhibit further platform differences
    - in particular often smaller variance among the PHP teams

More information

For details, please refer to the full Plat_Forms result report:

Lutz Prechelt:
"Plat_Forms 2007: The Web Development Platform Comparison – Evaluation and Results",

Freie Universität Berlin, Institut für Informatik,
Technical Report B-07-10

see http://www.plat-forms.org

Winning teams

- We do not have an overall winner
  - because people would readily infer a "best platform" from it

But we do have a <u>winner per platform</u>:

- Java: **abaXX Technology** (team3)
  - in particular for highest completeness

- Perl: **Etat de Genève/Optaros** (team1)
  - for best balance of characteristics

- PHP: **OXID eSales** (team6)
  - in particular for highest robustness

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- Organizers:

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Thank you!