

# INTERNATIONAL FUNCTION POINT USERS GROUP (IFPUG) UPDATE

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**MÉTRICAS 2012**

SÃO PAULO, BRAZIL

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# Numbers from Capers Jones in 2011, favorably ranks Brazil among 65 countries

## APPROXIMATE INTERNATIONAL SOFTWARE QUALITY LEVELS EXPRESSED IN IFPUG FUNCTION POINTS

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- Note 1: Preliminary data from small samples.
- Note 2: This table was created to illustrate the need for more extensive international studies.
- Note 3: Defect potentials include requirements, design, code, document and bad fix defects.
- Note 4: Defect removal efficiency includes results of inspections, static analysis, and testing.
- Note 5: Delivered defects are based on 90 days of customer usage of software applications.
- Note 6: To average > 80% in defect removal efficiency inspections and static analysis are needed
- Note 7: Defect potential range is from < 2.5 defects per function point to > 7.0 defects per function
- Note 8: Defect removal efficiency range is from < 75% to > 99.75%.
- Note 9: Delivered defect range is from .00625 to 1.75 per function point
- Note 10: IFPUG stands for International Function Point Users Group
- Note 11: Software population includes analysts, software engineers, testers, quality assurance, m

		Average Defect Potentials in 2011	Average Defect Removal Efficiency	Average Delivered Defects in 2011	National Population from CIA Fact Book in 2011	Estimated Software Population in 2011
1	Japan	4.50	90.00%	0.45	126,475,664	986,510
2	India	4.90	89.00%	0.54	1,189,172,206	2,140,510
3	South Korea	4.90	87.00%	0.64	48,754,767	282,778
4	Canada	4.75	86.50%	0.64	34,030,589	231,408
5	Netherlands	4.80	86.50%	0.65	16,847,007	131,407
6	Sweden	4.75	86.00%	0.67	9,088,728	61,803
7	Norway	4.75	85.50%	0.69	4,491,849	35,036
8	Switzerland	5.00	86.00%	0.70	7,639,961	59,592
9	Australia	4.85	85.50%	0.70	21,766,771	148,014
10	Ireland	4.85	85.50%	0.70	4,670,996	22,421
11	Israel	5.10	85.50%	0.74	7,473,052	50,817
12	United Kingdom	4.95	85.00%	0.74	62,698,362	489,047
13	Denmark	4.80	84.50%	0.74	5,529,888	32,073
14	United States	5.00	85.00%	0.75	313,232,044	2,443,210
15	France	4.85	84.50%	0.75	65,312,249	509,436
16	Finland	4.70	84.00%	0.75	5,259,250	35,763
17	Austria	4.75	84.00%	0.76	8,217,280	64,095
18	Belgium	4.70	83.50%	0.78	10,431,477	81,366
19	Mexico	4.85	84.00%	0.78	113,724,226	432,152
20	New Zealand.	4.85	84.00%	0.78	4,290,347	24,884
21	Germany	4.95	84.25%	0.78	81,471,824	635,480
22	Spain	4.90	84.00%	0.78	46,754,784	224,423
23	Portugal	4.85	83.50%	0.80	10,760,305	51,649
24	Iran	5.05	84.00%	0.81	77,891,220	295,987
25	Hong Kong	4.85	83.00%	0.82	7,122,508	34,188
26	Iceland	4.75	82.50%	0.83	311,058	1,493
27	South Africa	4.90	83.00%	0.83	49,004,031	235,219
28	Taiwan	4.90	83.00%	0.83	23,071,779	87,673
29	<b>Brazil</b>	<b>4.97</b>	<b>83.00%</b>	<b>0.84</b>	<b>203,429,773</b>	<b>976,463</b>
30	Jordan	5.00	83.00%	0.85	6,508,271	24,731
31	Bahrain	4.75	82.00%	0.86	1,214,705	2,186
32	China	5.20	83.50%	0.86	1,336,718,015	2,406,092
<b>AVERAGE</b>		<b>4.87</b>	<b>83.65%</b>	<b>0.80</b>	<b>5,041,253,245</b>	<b>17,444,711</b>
					Total	Total

This data is not refreshed from last year . . .

# Probable Software Benchmark Revenues by Country Circa 2010

China	\$45,000,000
India	\$45,000,000
Japan	\$35,000,000
Russia	\$30,000,000
<b>Brazil</b>	<b>\$25,000,000</b>
U.K.	\$20,000,000
Germany	\$20,000,000
France	\$20,000,000
Italy	\$15,000,000
Ukraine	\$10,000,000
Spain	\$10,000,000
Scandinavia	\$10,000,000
Australia	\$10,000,000
Mexico	\$10,000,000
South Korea	\$10,000,000
Canada	\$7,000,000
Taiwan	\$7,000,000
Israel	\$5,000,000

Table 2 extracted from Capers Jones newest book:  
*The Economics of Software Quality*



## Trade Seminar Focuses on Brazil

The New Mexico Economic Development Department's Office of International Trade is offering businesses an opportunity to explore international trade prospects in the Brazilian market at a free "Doing Business in Brazil" seminar on Thursday.

In conjunction with Albuquerque Hispano Chamber of Commerce, the U.S. Department of Commerce and the city of Albuquerque, the trade office will host the seminar from 8:30 a.m. to 12:30 p.m. at the Lockheed Marietta conference room at the Hispano Chamber, 1309 4th SW.

The seminar will feature several speakers including Jose Madeira Neto, director of the New Mexico Brazil Trade Office in Sao Paulo, Brazil.

The seminar is free, but limited to the first 50 registrants. Register by email to [Alexandra@ahcnm.org](mailto:Alexandra@ahcnm.org) or [Maria.Rodriguez1@state.nm.us](mailto:Maria.Rodriguez1@state.nm.us). Deadline is Wednesday at noon. For additional information contact 505-827-0315.

ABQ Journal, July 8, 2012

# New book has several authors from Brazil

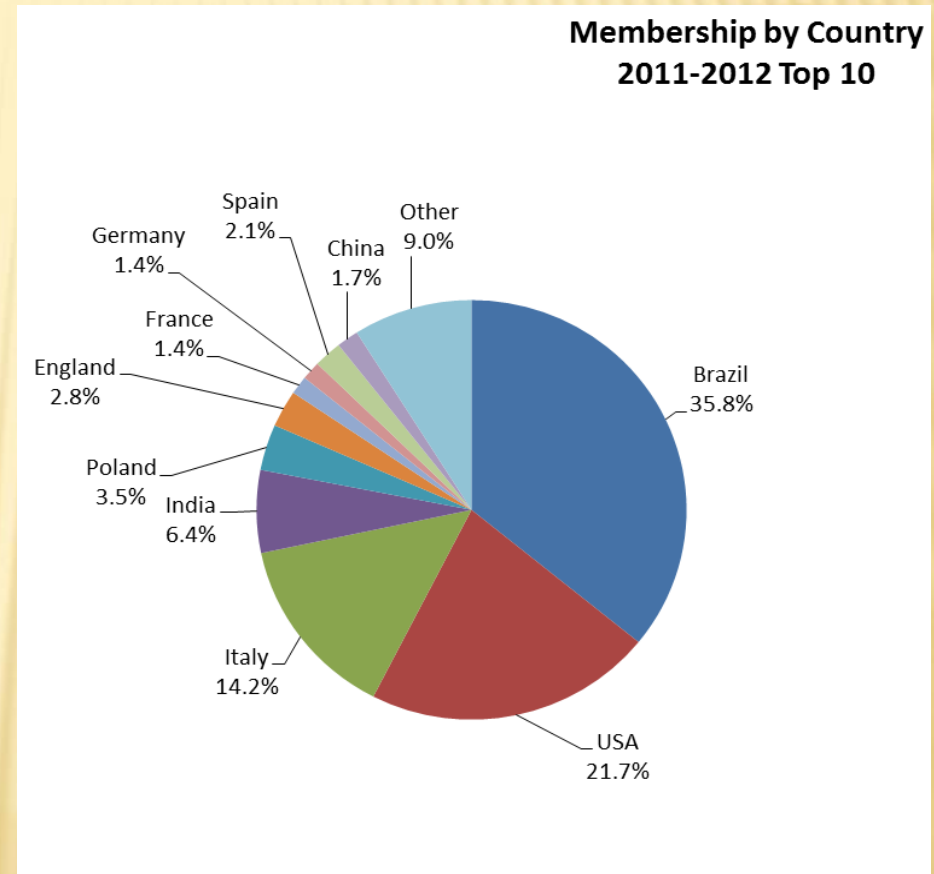
## *(IFPUG Guide to IT and Software Measurement)*

Chapter	Author	Title
7	Emilia Mendes	Software & Web Effort Estimation via Predictive and Diagnostic Reasoning
8	Luiz Flávio Santos Ribeiro	An Experience in Estimating Software Testing Effort
11	Claudia Hazan	The 13 Mistakes of Function Point Counting
32	Márcio Silveira	A Framework to Implement Statistical Process Control
37	Eduardo Alves de Oliveira	How to Improve Your Development Process using the Indicator of Productivity

Special thanks to Márcio Silveira for helping me with this list

# Brazil (again) remains the world leader in Function Point membership & adoption

- The percentage of membership from Brazil increased over last year. (33.3%)
- The number of successful CFPS exams in Brazil exceeds those of the next four countries combined.



These numbers extracted from the IFPUG monthly report on membership, September, 2012.

# **Brazil (noteworthy dates)**

**Question? October 14, 2006**

**Answer: Anderson Silva crowned new UFC Middleweight Champion**

**Question? 25 September, 2011**

**Answer: Katy Perry – largest concert in her world tour in São Paulo**

**Question? 12 June to 13, 2014**

**Answer: World Cup – first time in Brazil in 64 years**

**Question? August 5 – 21, 2016**

**Answer: First Olympics in South America, first summer Olympics during “winter”**

**Question? 2013**

**Answer: ISMA8**