

Luca Pascarella



About

Ing. Dr. Luca Pascarella is an Italian software engineer with proven experience in software development, artificial intelligence, and embedded systems. His academic research aims to transform software systems development from an intuition-based model to a data-driven one by leveraging big data and deep learning technologies.

Contacts

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Indexes

<https://Google Scholar>
<https://DBLP>

Languages

Italian
English

Highlights

- | | | |
|------|--|---------------------------------|
| 2022 | Lecturer | ETH Zürich, Switzerland |
| now | Course: <i>Introduction to program Nao Robots</i> | |
| 2019 | CEO (co-founder) | LPSystems B.V., The Netherlands |
| 2021 | Role: <i>Director and Head of Embedded Software Engineering</i> | |
| 2016 | Ph.D. | TU Delft, The Netherlands |
| 2020 | Thesis: <i>Augmented Fine-Grained Defect Prediction for Code Review</i> | |
| 2018 | Internship (research) | SIG, The Netherlands |
| 2019 | Topic: <i>Understand the Developers' Information Needs in Code Review</i> | |
| 2011 | Teacher | L. Palmieri, Italy |
| 2013 | Course: <i>C for Embedded Programming</i> | |
| 2008 | B.Sc. | University of Sannio, Italy |
| 2011 | Thesis: <i>Design of a Low Distortion ADC with Real-Time Bayesian Correction</i> | |

Education and Training

Qualification	Lecturer / Senior Researcher	Electrical Engineering
Organization	ETH Zurich	Switzerland
Period	Oct 2022 - now	
Activity	<i>Research on Energy Efficient Sensor Fusion and Computer Vision</i>	
Supervisor	Prof. Dr. Luca Benini and Dr. Michele Magno	
Qualification	Postdoctoral Researcher	Informatics
Organization	Università della Svizzera Italiana	Switzerland
Period	Set 2020 - Set 2022	
Activity	<i>Research on Intelligent Recommender Systems for Software Developers</i>	
Supervisor	Prof. Dr. Gabriele Bavota	
Qualification	Doctor of Philosophy	Computer Science
Organization	Delft University of Technology	The Netherlands
Period	Jan 2016 - Set 2020	
Thesis	<i>Augmented Fine-Grained Defect Prediction for Code Review</i>	
Supervisor	Prof. Dr. Alberto Bacchelli	
Qualification	Research Intern	Industry
Organization	Software Improvement Group (SIG)	The Netherlands
Period	Nov 2018 - Dec 2019	
Topic	<i>Understand the Developers' Information Needs in Code Review in Open and Industrial SW Development</i>	
Supervisor	Dr. Magiel Bruntink	
Qualification	Visitor	Academic
Organization	IMDEA Software Institute	Spain
Period	Summer 2016	
Topic	<i>Investigate the Rationale of Code Comments in Java Source Code</i>	
Supervisor	Prof. Dr. Alessandra Gorla	
Qualification	Master's degree <i>cum laude</i>	Software Engineering
Organization	University of Sannio	Italy
Period	Set 2012 - May 2015	
Thesis	<i>Quantitative and Qualitative Analysis of Development Processes in Open-Source Video Games</i>	
Supervisor	Prof. Dr. Massimiliano Di Penta	
Qualification	Bachelor's degree	Software Engineering
Organization	University of Sannio	Italy
Period	Set 2008 - May 2011	
Thesis	<i>HW Design of Low Distortion A/D and SW Development of a Real-Time Post-Sampling Bayesian Correction</i>	
Supervisor	Prof. Dr. Sergio Rapuano and Prof. Dr. Luca De Vito	
Qualification	School Internship	Industry
Organization	DRF Elettronica sas	Italy
Period	Jan 2005 - Dec 2009	
Activity	<i>Servicing, repair, maintenance, and installation of domestic appliances</i>	
Supervisor	Prof. Franco Di Rubbo	

Work Experiences

2022 - now Switzerland	ETH Zurich Energy-Efficient AI for Edge Computing	Lecturer - Resercher
2014 - now Italy	Futura Group Srl Magazine writer and product designer	Royalty
2020 - 2022 Switzerland	Università della Svizzera italiana (USI) An Artificial Assistant for Software Developers	Resercher
2019 - 2021 The Netherlands	LPSystems B.V. Business strategy, software, and hardware development	CEO - Principal Engineer
2018 - 2019 The Netherlands	Software Improvement Group (SIG) Understand the Developers' Information Needs in Code Review	Researcher Internship
2018 - 2020 Italy	DEM Solutions FreeRTOS, C/C++, Java, USB, cryptography, anti-dumping	Scientific Engineer
Jun 2018 Belgium	Alyseum FreeRTOS, C/C++, FAT-FS	Scientific Engineer
May 2017 Germany	EM Elektronik FreeRTOS, C/C++, FAT-FS, TCP/IP	Engineer
Mar-Jul 2014 Italy	Beneslan non-profit association Architecture design of a donation portal, PHP, Yii Framework	Developer
Mar 2014 Italy	VBE Telecomunicazioni Software customization of the FT859M as a radio backup system	Developer
2012 - 2013 France	Bruitparif non-profit association Sonar-velox project, a microphone array to portray sounds in 3D maps	Researcher
2010 - 2012 Italy	ACME Systems Srl Designer of Aria G25 and Pick & Place assembly line supervisor	Engineer
May 2012 Italy	Ondarete Sas Di Mora A. & C. Software customization of the FT859M module	Consultant
Jan 2012 Georgia, USA	MESI of David Milligan Software customization of the FT862M module	Consultant
2011 - 2013 Italy	LP Systems Start-up founder and project manager	Founder - Engineer
2010 - 2011 Switzerland	ESMOLO Ltd Low-power microcontrollers, C/C++, Java, WiFi, USB	Consultant
Nov 2009 Italy	ELSAG DATAMAT Spa Containers tracking, PHP, SQLite, C, and HTML	Consultant
Jun 2009 Italy	PROFEEL Srl DSP for digital motor control, C/C++, Altium Designer	Consultant
Jun 2008 Italy	ACME Systems Srl Designer of the TuxMule and TuxTorrent (A Fox LX832 extension)	Consultant
2007 - 2009 Italy	SOFSIS Srl Teacher of computer science basics	Teacher
2007 - 2011 Italy	High School L. Palmieri - Vocational school of Industry and Handicrafts Teacher of assembly and C languages for Microchip microcontrollers	Teacher
2005 - 2009 Italy	DRF Elettronica sas Fault search and servicing of domestic and light industrial appliances	Internship

Acquired Skills

Development

Languages	C, C++, Python, Java, JavaScript, Assembly (MIPS and x86)
Frameworks	FreeRTOS, wolfMQTT, wolfSSL, wolfCrypt, ActiveMQ, OpenMPI, OpenMP, Facebook React, Microchip Harmony, CUDA C++, OpenCL, TensorFlow, Keras, Hugging Face AI
DBMS	MySQL, SQLite, PostgreSQL
Embedded	I2C, SPI, UART, low-level protocols
Networks	TCP/IP, Ethernet, Wi-Fi, Bluetooth, ZigBee, Lo-Ra, and major protocols and techniques
Security	Authentication, Chain of Trust, Hash functions, Symmetric keys, Asymmetric cryptography, Message authentication, Session keys, SSL/TLS, AES, RSA, Elliptic curves
Web Servers	Apache, Lighttpd, IIS, Tomcat, Microchip HTTP2 for embedded systems
IDEs	MPLAB-X, CLion, IntelliJ IDEA, PyCharm, WebStorm, Eclipse, Netbeans, PhpStorm
Design Tools	Altium Designer, Eagle
Debugging	GDB Debugger for Linux machines, IDE-based debuggers, in-circuit debuggers for embedded systems, JTAG, ICSP

Practical

Assembly	In-lab assembly and testing of prototypes of electronic circuits Manual soldering and rework of surface mount components (SMD) Handling of the assembly production line with turbo Pick & Place machines
Engineering	Designing circuit diagrams and multi-layer printed circuit boards (PCB)
Lab Tools	Oscilloscope, Logic Analyzer, Multimeter, Capacitance Meter, Frequency Meter, Field Strength meter (TV/SAT), Function Generator, Rework Station

Personal

Empirical	Ability to lead empirical research
Presentation	Presenting at international conferences
Coaching	Leading, advising, and mentoring undergraduate, graduate, and Ph.D. students
Teaching	Lecturer and guest lecturer for academic and professional courses
Business	Experience in transforming concepts and prototypes into business products

Peer-Reviewed Publications

36. "Gaze-Guided Semi-Autonomous Quadruped Robot for Enhanced Assisted Living" SAS 2024
Paul Joseph, Davide Plozza, Luca Pascarella, Michele Magno
 IEEE Sensors Applications Symposium
35. "Towards Summarizing Code Snippets Using Pre-Trained Transformers" ICPC 2024
Antonio Mastropaolo, Matteo Ciniselli, Luca Pascarella, Rosalia Tufano, Emad Aghajani, Gabriele Bavota
 International Conference on Program Comprehension
34. "Towards Real-Time Fast Unmanned Aerial Vehicle Detection Using Dynamic Vision Sensors" I2MTC 2024
Jakub Mandula, Jonas Kühne, Luca Pascarella, Michele Magno
 International Instrumentation and Measurement Technology Conference
33. "Grayscale And Event-Based Sensor Fusion for Robust Steering Prediction for Self-driving Cars" SAS 2023
Luca Pascarella, Michele Magno
 IEEE Sensors Applications Symposium
32. "Log Statements Generation via Deep Learning: Widening the Support Provided to Developers" Journal (A)
JSS
Antonio Mastropaolo, Valentina Ferrari, Luca Pascarella, Gabriele Bavota
 Journal of Systems and Software
31. "On the Empirical Evidence of Microservice Logical Coupling. A Registered Report" Conference (A)
ICSME 2023
Dario Amoroso d'Aragona, Luca Pascarella, Andrea Janes, Valentina Lenarduzzi, Rafael Peñaloza, Davide Taibi
 International Conference on Software Maintenance and Evolution
30. "Breaks and Code Quality: Investigating the Impact of Forgetting on Software Development" Conference (A)
ESEM 2023
Dario Amoroso d'Aragona, Luca Pascarella, Andrea Janes, Valentina Lenarduzzi, Rafael Peñaloza, Davide Taibi
 International Symposium on Empirical Software Engineering and Measurement
29. "Microservice Logical Coupling: A Preliminary Validation" Conference (A)
ICSA 2023
Dario Amoroso d'Aragona, Luca Pascarella, Andrea Janes, Valentina Lenarduzzi, Rafael Peñaloza, Davide Taibi
 International Conference on Software Architecture Companion
28. "Automating Code-Related Tasks Through Transformers: The Impact of Pre-training" Conference (A*)
ICSE 2023
Rosalia Tufano, Luca Pascarella, Gabriele Bavota
 International Conference on Software Engineering
27. "Source Code Recommender Systems: The Practitioners' Perspective" Conference (A*)
ICSE 2023
Matteo Ciniselli, Luca Pascarella, Emad Aghajani, Simone Scalabrino, Rocco Oliveto, Gabriele Bavota
 International Conference on Software Engineering
26. "On the Robustness of Code Generation Techniques: An Empirical Study on GitHub Copilot" Conference (A*)
ICSE 2023
Antonio Mastropaolo, Luca Pascarella, Emanuela Guglielmi, Matteo Ciniselli, Simone Scalabrino, Rocco Oliveto, Gabriele Bavota
 International Conference on Software Engineering
25. "Microservice Logical Coupling: A Preliminary Validation" Conference (A)
ICSA 2023
Dario Amoroso d'Aragona, Luca Pascarella, Andrea Janes, Valentina Lenarduzzi, Davide Taibi
 International Conference on Software Architecture Companion
24. "A Comprehensive Evaluation of SZZ Variants Through a Developer-informed Oracle" Journal (A)
JSS
Giovanni Rosa, Luca Pascarella, Simone Scalabrino, Rosalia Tufano, Gabriele Bavota, Michele Lanza, Rocco Oliveto
 Journal of Systems and Software
23. "Automated variable renaming: are we there yet?" Journal (A)
EMSE
Antonio Mastropaolo, Emad Aghajani, Luca Pascarella, Gabriele Bavota
 Journal of Empirical Software Engineering
22. "Regularity or Anomaly? On The Use of Anomaly Detection for Fine-Grained JIT Defect Prediction" Conference (B)
SEAA 2022
Francesco Lomio, Luca Pascarella, Fabio Palomba and Valentina Lenarduzzi
 Euromicro Conference on Software Engineering and Advanced Applications
21. "To What Extent do Deep Learning-based Code Recommenders Generate Predictions by Cloning Code from the Training Set?" Conference (A)
MSR 2022
Matteo Ciniselli, Luca Pascarella, Gabriele Bavota
 International Conference on Mining Software Repositories
20. "Using Deep Learning to Generate Complete Log Statements" Conference (A*)
ICSE 2022
Antonio Mastropaolo, Luca Pascarella, Gabriele Bavota
 International Conference on Software Engineering
19. "Using Pre-Trained Models to Boost Code Review Automation" Conference (A*)
ICSE 2022
Rosalia Tufano, Simone Masiero, Antonio Mastropaolo, Luca Pascarella, Denys Poshyvanyk, Gabriele Bavota
 International Conference on Software Engineering

18. "Using Reinforcement Learning for Load Testing of Video Games" Conference (A*)
ICSE 2022
Rosalia Tufano, Simone Scalabrino, [Luca Pascarella](#), Emad Aghajani, Rocco Oliveto, Gabriele Bavota
International Conference on Software Engineering
17. "An Empirical Study on the Usage of Transformer Models for Code Completion" Journal (A*)
TSE
Matteo Ciniselli, Nathan Cooper, [Luca Pascarella](#), Antonio Mastropaolo, Emad Aghajani, Denys Poshyvanyk, Massimiliano Di Penta, Gabriele Bavota
IEEE Transactions on Software Engineering
16. "An Empirical Study on Code Comment Completion" Conference (A)
ICSME 2021
Antonio Mastropaolo, Emad Aghajani, [Luca Pascarella](#), Gabriele Bavota
International Conference on Software Maintenance and Evolution
15. "An Empirical Study on the Usage of BERT Models for Code Completion" Conference (A)
MSR 2021
Matteo Ciniselli, Nathan Cooper, [Luca Pascarella](#), Denys Poshyvanyk, Max Di Penta, Gabriele Bavota
International Conference on Mining Software Repositories
14. "Logging Practices with Mobile Analytics: An Empirical Study on Firebase" Conference
MOBILESoft 2021
Julian Harty, Haonan Zhang, Lili Wei, [Luca Pascarella](#), Maurício Aniche, Weiyi Shang
International Conference on Mobile Software Engineering and Systems
13. "Towards Automating Code Review Activities" Conference (A*)
ICSE 2021
Rosalia Tufano, [Luca Pascarella](#), Michele Tufano, Denys Poshyvanyk, Gabriele Bavota
International Conference on Software Engineering
12. "Evaluating SZZ Implementations Through a Developer-informed Oracle" Conference (A*)
ICSE 2021
Giovanni Rosa, [Luca Pascarella](#), Simone Scalabrino, Rosalia Tufano, Gabriele Bavota, Michele Lanza, Rocco Oliveto
International Conference on Software Engineering
11. "Healthcare Android Apps: A Tale of the Customers' Perspective" Workshop
WAMA 2019
Mariaclaudia Nicolai, [Luca Pascarella](#), Fabio Palomba, Alberto Bacchelli
International Workshop on App Market Analytics
10. "On the Performance of Method-Level Bug Prediction: A Negative Result" Journal (A)
JSS
[Luca Pascarella](#), Fabio Palomba, Alberto Bacchelli
Journal of Systems and Software
9. "Classifying code comments in Java software systems" Journal (A)
EMSE
[Luca Pascarella](#), Magiel Bruntink, Alberto Bacchelli
Journal of Empirical Software Engineering
8. "Fine-Grained Just-In-Time Defect Prediction" Journal (A)
JSS
[Luca Pascarella](#), Fabio Palomba, and Alberto Bacchelli
Journal of Systems and Software
7. "Information Needs in Contemporary Code Review" Conference (A)
CSCW 2018
[Luca Pascarella](#), Davide Spadini, Fabio Palomba, Magiel Bruntink, Alberto Bacchelli
Computer-Supported Cooperative Work and Social Computing **Best Paper Award Honorable Mention**
6. "How Is Video Game Development Different from Software Development in Open Source?" Conference (A)
MSR 2018
[Luca Pascarella](#), Fabio Palomba, Massimiliano Di Penta, Alberto Bacchelli
International Conference on Mining Software Repositories
5. "A Graph-based Dataset of Commit History of Real-World Android apps" Conference (A)
MSR 2018
Franz-Xaver Geiger, Ivano Malavolta, [Luca Pascarella](#), Fabio Palomba, Dario Di Nucci, Alberto Bacchelli
International Conference on Mining Software Repositories
4. "Self-Reported Activities of Android Developers" Conference
MOBILESoft 2018
[Luca Pascarella](#), Franz-Xaver Geiger, Fabio Palomba, Dario Di Nucci, Ivano Malavolta, Alberto Bacchelli
International Conference on Mobile Software Engineering and Systems
3. "Re-evaluating Method-Level Bug Prediction" Conference (A)
SANER 2018
[Luca Pascarella](#), Fabio Palomba, Alberto Bacchelli
International Conference on Software Analysis, Evolution and Reengineering
2. "Investigating Type Declaration Mismatches in Python" Workshop
MaLTaSQuE 2018
[Luca Pascarella](#), Achyudh Ram, Azqa Nadeem, Dinesh Bisesser, Norman Knyazev, Alberto Bacchelli
International Workshop on Machine Learning Techniques for Software Quality Evaluation
1. "Classifying code comments in Java open-source software systems" Conference (A)
MSR 2017
[Luca Pascarella](#) and Alberto Bacchelli
Mining Software Repositories **Distinguished Paper Award**

A*, A, B, and C scores for Conference and Journal according to the CORE Rankings Portal

Teaching

Spring '24	"Introduction to Program Nao Robots for Robocup Competition"	ETH Zurich
Fall '23	"Introduction to Program Nao Robots for Robocup Competition"	ETH Zurich
Spring '23	"Introduction to Program Nao Robots for Robocup Competition"	ETH Zurich

Professional Service

SAS 2024	Conference: Sensors Applications Symposium (Special Session)	Chair
MSR 2024	Conference: Mining Software Repositories (Data and Tool)	Chair
SANER 2024	Conference: Software Analysis, Evolution and Reengineering (Short)	Chair
NLBSE 2024	Co-Located Workshop (Tool Competition)	Chair
GE@ICSE '23	Co-Located Workshop (Proceedings)	Chair
NLBSE 2023	Co-Located Workshop (Tool Competition)	Chair
TSE	Journal: Transactions on Software Engineering	Invited reviewer
TOSEM	Journal: Transactions on Software Engineering and Methodology	Invited reviewer
EMSE	Journal: Empirical Software Engineering	Invited reviewer
JSEP	Journal: Software: Evolution and Process	Invited reviewer
TOSEM	Journal: Transactions on Software Engineering and Methodology	Invited reviewer
SPE	Journal: Software: Practice and Experience	Invited reviewer
JSS	Journal: Journal of Systems and Software	Invited reviewer
JCIS	Journal: Journal of Computational Intelligence Systems	Invited reviewer
SQJ	Journal: Software Quality Journal	Invited reviewer
ICSE 2024	Conference: Software Engineering (SEIP Track)	PC member
FSE 2023	Conference: Foundations of Software Engineering (Tool Track)	PC member
ICSME 2023	Conference: Software Maintenance and Evolution	PC member
SANER 2023	Conference: Software Analysis, Evolution and Reengineering	PC member
FSE 2022	Conference: Foundations of Software Engineering (Tool Track)	PC member
ICSME 2022	Conference: Software Maintenance and Evolution (Tool Demo Track)	PC member
MSR 2022	Conference: Mining Software Repositories	PC member
SCAM 2022	Conference: Source Code Analysis and Manipulation (NIER Track)	PC member
MSR 2022	Conference: Mining Software Repositories (Data/Tool Showcase Track)	PC member
ICPC 2022	Conference: Program Comprehension (ERA Track)	PC member
SCAM 2021	Conference: Source Code Analysis and Manipulation	PC member
MSR 2021	Conference: Mining Software Repositories	PC member
FSE 2021	Conference: Foundations of Software Engineering (Tool Track)	PC member
FSE 2020	Conference: Foundations of Software Engineering (Tool Track)	PC member
SOFTENG 20	Conference: Advances and Trends in Software Engineering	PC member

Other Contributions

3. "Augmented Fine-Grained Defect Prediction for Code Review" Ph.D. Thesis
Luca Pascarella
2. "On The Effect Of Code Review On Code Smells" arXiv.org 2020
Luca Pascarella, Davide Spadini, Fabio Palomba, and Alberto Bacchelli
1. "Classifying code comments in Java Mobile Applications" **MOBILESoft 2018**
Luca Pascarella
Student Research Competition (Mobile Software Engineering and Systems)

Student Supervision

15.	“Hardware and Firmware Development of a Multisensor PCB for Vital Sign Monitoring on Glasses using mmWave Radar” <i>Pierin Candrian (ETH Zurich)</i>	Supervisor B.Sc. Thesis
14.	“Design of Open Multi-Sensor Smart Glasses Platform” <i>Fabian Sonnleitner (ETH Zurich)</i>	Supervisor B.Sc. Thesis
13.	“Characterization of the Robustness at Adversarial Attacks in Exported Quantized TinyML” <i>Juric Karlo (ETH Zurich)</i>	Supervisor B.Sc. Thesis
12.	“Investigation and Benchmarking of Optical Flow Algorithms for Robotics Applications” <i>Mark Marolf, Moritz Martinoli, Marcello Krahforst (ETH Zurich)</i>	Co-supervisor Group Thesis
11.	“Design of Open Multi-Sensor Smart Glasses Platform” <i>Fabian Sonnleitner (ETH Zurich)</i>	Supervisor B.Sc. Thesis
10.	“Combining Speech and Facial Feature Samples to Detect Different Emotions” <i>Athina Xenou Gavrieli (ETH Zurich)</i>	Supervisor Semester Thesis
9.	“Visual Sign Language Translation on Android-Based Smart Glasses” <i>Jeremy Gleixner (ETH Zurich)</i>	Co-supervisor B.Sc. Thesis
8.	“Hand-Detection for Sign Language Aid on Android-Based Smart Glasses” <i>Luca Specht (ETH Zurich)</i>	Co-supervisor Semester Thesis
7.	“Low Latency Real-Time UAV Detection Using Event-Based Camera” <i>Jakub Mandula (ETH Zurich)</i>	Co-supervisor M.Sc. Thesis
6.	“Adversarial Attacks for Deep Learning-based Autonomous Vehicles” <i>Arsim Dzambazoski (ETH Zurich)</i>	Co-supervisor Semester Thesis
5.	“Improving and Evaluating Code Recommender Systems - Investigating the Role of Code Context and Presenting a Novel Evaluation Framework” <i>Cristian Buratti (USI)</i>	Co-supervisor M.Sc. Thesis
4.	“STRIPE - A Web-based application to support researchers in running Mining Software Repositories experiments” <i>Gregory Wullimann (USI)</i>	Co-supervisor M.Sc. Thesis
3.	“Identifying Bug-Introducing Changes Using the SZZ Algorithm” <i>Michele Damian (USI)</i>	Co-supervisor B.Sc. Thesis
2.	“Detecting and Visualizing Code Clones in GitHub Repositories” <i>Alessandro Romanelli (USI)</i>	Co-supervisor B.Sc. Thesis
1.	“A Graph-based Dataset of Commit History of Real-World Android Apps” <i>Franz-Xaver Geiger (TU Delft)</i>	Co-supervisor M.Sc. Thesis

Certificates

1.	“Abilitazione Scientifica Nazionale (ASN)” <i>Settore Concorsuale 01/B1 Informatica</i>	15/07/2024 15/07/2035
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References

Prof. Dr. Alberto Bacchelli

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Affiliation: University of Zurich
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Prof. Dr. David C. Shepherd

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Prof. Dr. Gabriele Bavota

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Prof. Dr. Fabio Palomba

Role: Assistant Professor
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