



# Agile ORLANDO JULY 24-28 2023

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NicoPaez

Technical Practices Walkthrough for non-technical People



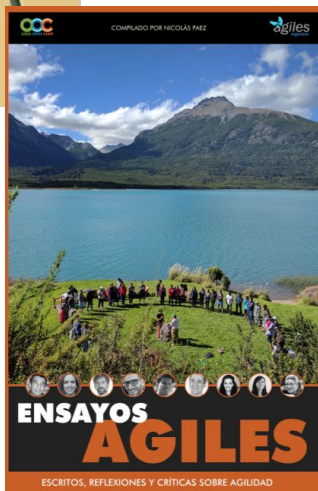
**Agile** ORLANDO  
JULY 24-28 **2023**

## Construcción de software: una mirada ágil

Nicolás Paez • Diego Fontdevila • Pablo Suárez  
Carlos Fontela • Marzio Degiovanni • Alejandro Molinari



EDUNTREF



Nicolás Paez  
Department of Science and Technology  
Universidad Nacional de Tres de Febrero  
Caseros, Argentina  
nicopaez@computer.org

## Technical and Organizational Agile Practices: A Latin-American Survey

Nicolás Paez<sup>(CC)</sup>, Diego Fontdevila, Fernando Gainey,  
and Alejandro Oliveros

Universidad Nacional de Tres de Febrero, Caseros, Argentina  
nicopaez@computer.org,  
{dfontevila, fgainey, aoliveros}@untref.edu.ar

## Flipped Classroom Experience Teaching Software Engineering

Nicolás Martín Paez  
Department of Science and Technology  
Universidad Nacional de Tres de Febrero  
Saenz Peña, Buenos Aires, Argentina  
nicopaez@computer.org



## Software Engineering Education in the DevOps Era: Experiences and Recommendations

Nicolás Paez<sup>1,2</sup>, Carlos Fontela<sup>2</sup>

<sup>1</sup>Departamento de Ciencia y Tecnología - Universidad Nacional de Tres de Febrero  
Saenz Peña, Argentina

<sup>2</sup>Facultad de Ingeniería - Universidad de E  
Buenos Aires, Argentina

nicopaez@computer.org, cfontela@

## HELENA Study: Initial Observations of Software Development Practices in Argentina

Nicolás Paez, Diego Fontdevila and Alejandro Oliveros

Universidad Nacional de Tres de Febrero, Caseros, Argentina  
nicopaez@computer.org, {dfontevila, aoliveros}@untref.edu.ar



What is a technical  
practice?

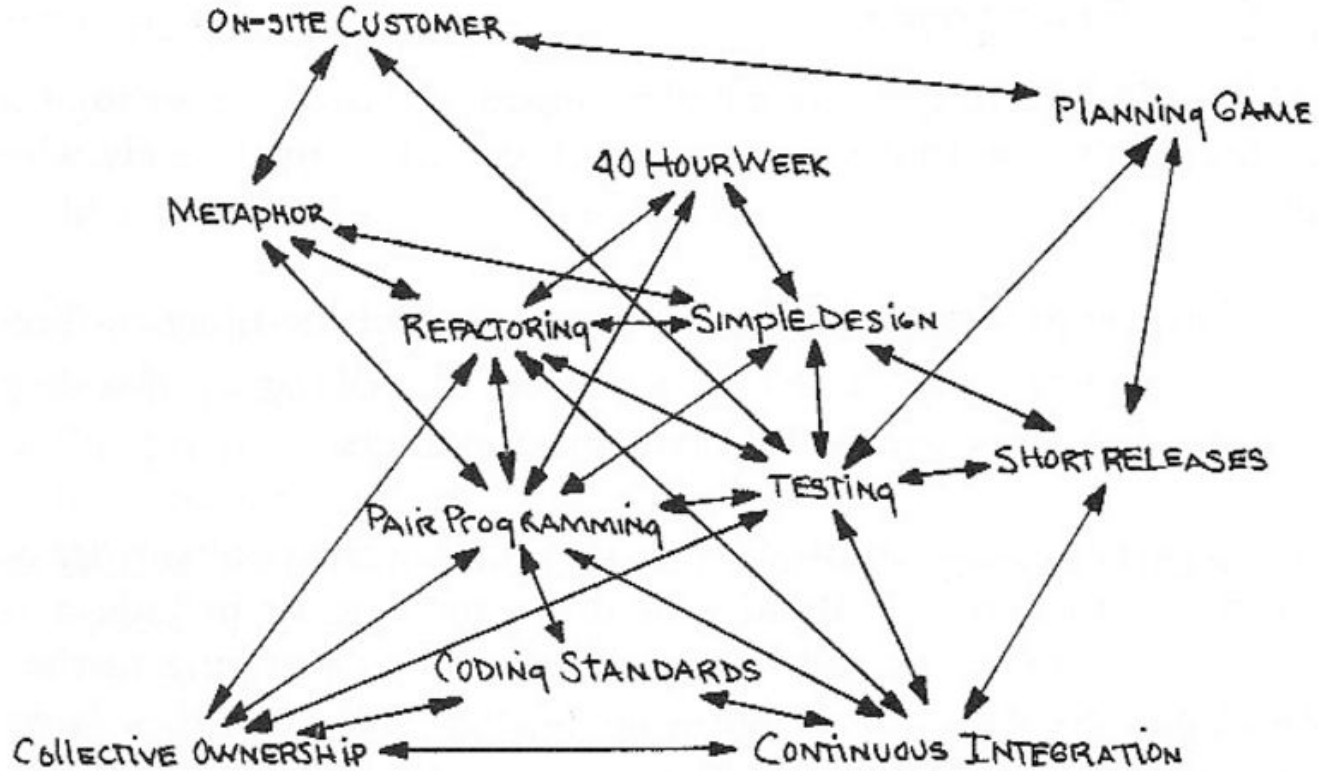
Technical practice:

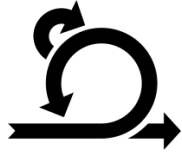
A practice that **is specific to software projects** and that is not applicable to other kind of projects

Mainstream

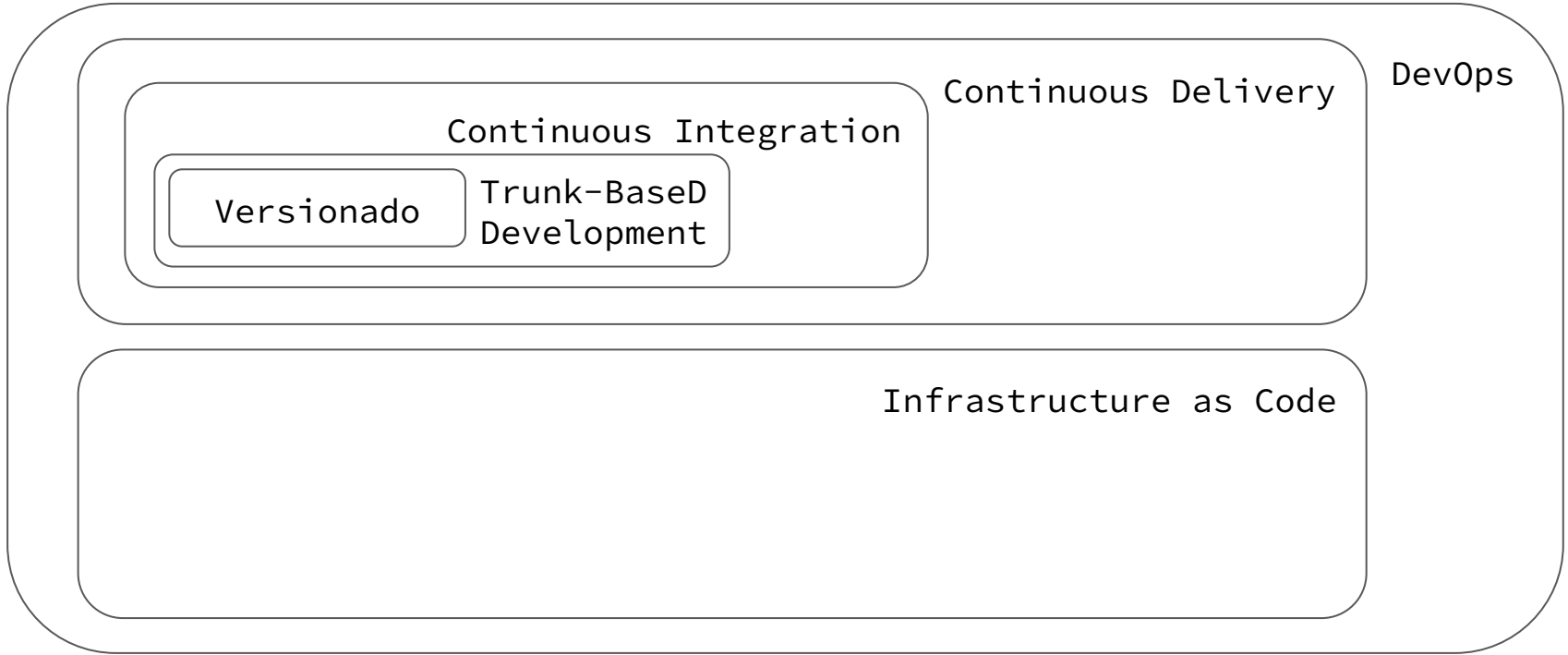
vs.

State of the Art









DevOps

Continuous Delivery

Continuous Integration

Trunk-Based  
Development

Versionado

Infrastructure as Code

*DevOps is a **set of practices** intended to **reduce the time** between committing a change to a system and the change being placed into normal production while ensuring high quality.*

Len Bass, SEI-CMU

DevOps

## Continuous Delivery

*Software engineering approach in which teams produce software in short cycles, ensuring that the software can be reliably released **at any time** and, following **a pipeline through a "production-like environment"**, without doing so manually*

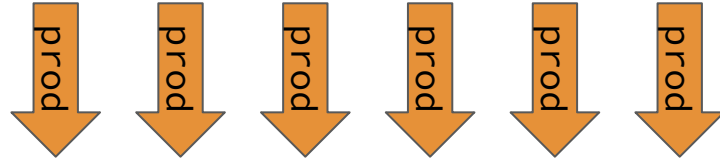
## Infrastructure as Code

Continuous Delivery

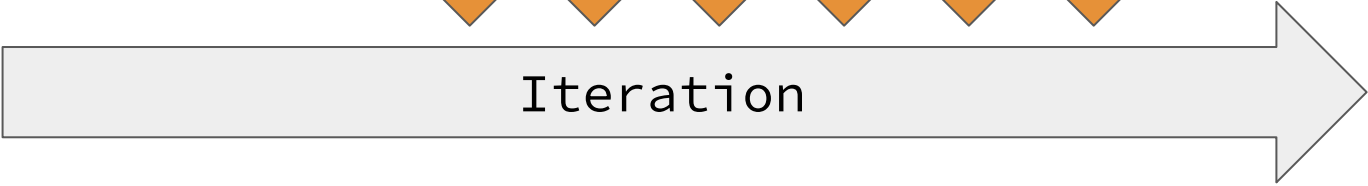
vs.

Continuous Deployment

Planning



Review &  
Retrospective



DevOps

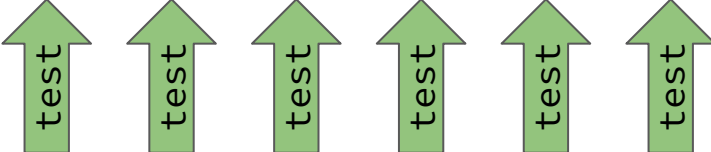
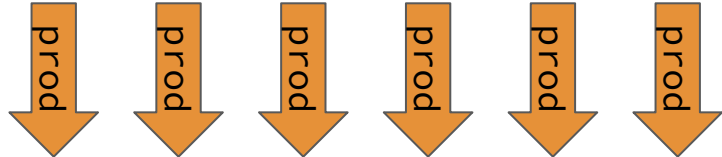
Continuous Delivery

Continuous Integration

*Software development practice where members of a team **integrate their work at least daily** - leading to multiple integrations per day. **Each integration is verified by an automated build (including test)** to detect integration errors as quickly as possible.*

Planning

Review &  
Retrospective

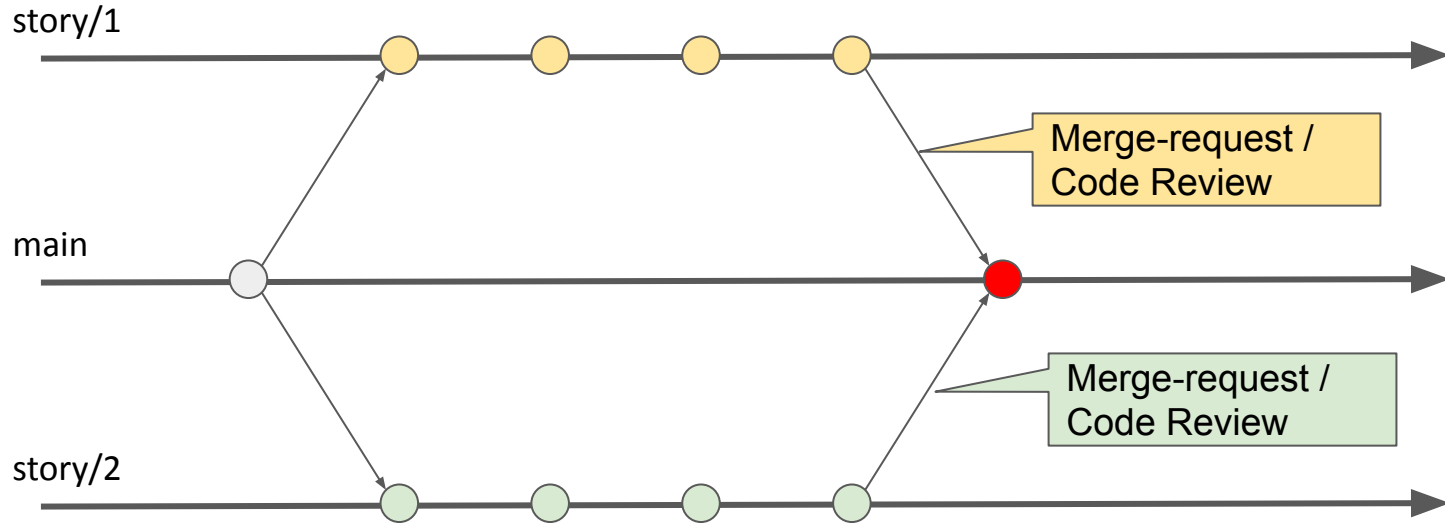


Versionado y desarrollo en paralelo

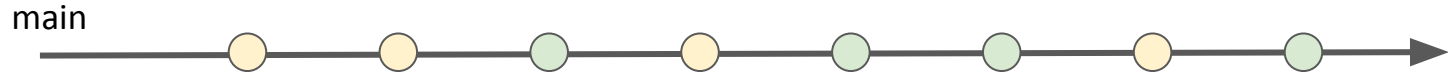
feature branches vs trunk-based



# Feature-branches, merge-request



# Trunk-based Development



# Trunk-based Development

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Small Increments / Releases

Test-Automation

Pair/Mob Programming

Feature Toggles

# Trunk-based Development

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Small Increments / Releases

Decouple Release and Deploy

Test-Automation

A/B Testing

Pair/Mob Programming

Testing in Production

Feature Toggles

Canary Releases

Continuous Delivery

# Strengthening the Case for Pair Programming

*The software industry has practiced pair programming—two programmers working side by side at one computer on the same problem—with great success for years. But people who haven't tried it often reject*

**Laurie Williams**, *North Carolina State University*

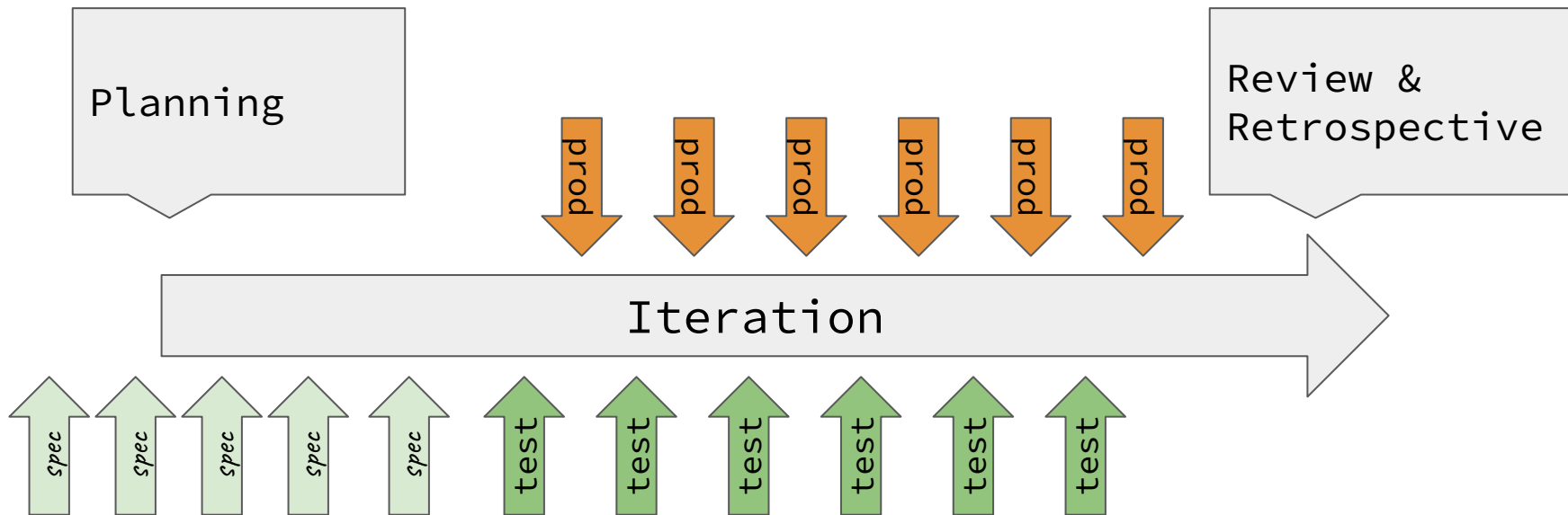
**Robert R. Kessler**, *University of Utah*

**Ward Cunningham**, *Cunningham & Cunningham*

**Ron Jeffries**

**F**or years, programmers in industry have claimed that by working collaboratively, they have produced higher-quality software products in shorter amounts of time. But their evidence was anecdotal and subjective: “It works” or “It feels right.” To validate these claims, we have gathered quantitative evidence showing that pair programming—two programmers working side by side at one computer on the same

# Feature Toggles (showtime!)



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Practice:  
Specification By  
Example

Fin

Nicolás Paez  
nicopaez@ieee.org  
@inicopaez  
blog.nicopaez.com





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JULY 24-28

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29a697c32fcaabcc25649103a0239c7d2bc5dc63 => scenarios

315cd52e9a785d8d1b5c2d7ccc3918f99cf92c64 => steps