Registros de decisiones de arquitectura
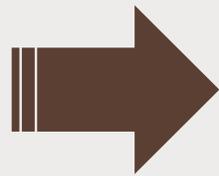
Jonathan Barbón García

Álvaro de la Fuente Fernández
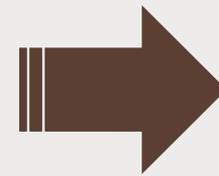
Introducción

Casos de uso

Atributos de calidad

Restricciones

→

Arquitecto de software

→

Diseño a utilizar

Diagramas de clases del dominio

Diagramas de secuencia

ARD

2ª ley de la arquitectura del software

RFC

¿Por qué?
Documentar decisiones

¿Qué es ADR?

Documento que captura una decisión, incluido el contexto de cómo se tomó la decisión y las consecuencias de adoptarla.

Una sola decisión en cada ADR

Conjunto ADR ⟶ Registro de decisiones

Lo más importante para documentar no es lo que se decidió hacer, es lo que consideró y decidió no hacer.

¿Qué es RFC?

Request for Comments

Describen diversos aspectos del funcionamiento de Internet

```
+----------+  +----------+
|Aplicación|  |Aplicación|
+----------+  +----------+
     |             |
 +-----+       +-----+
 | TCP |  ···  | TCP |
 +-----+       +-----+
     |             |
 +-----+       +-----+
 | IP  |  ···  | IP  |
 +-----+       +-----+
     |             |
+----------------------------+
|       Enlace físico        |
+----------------------------+
```
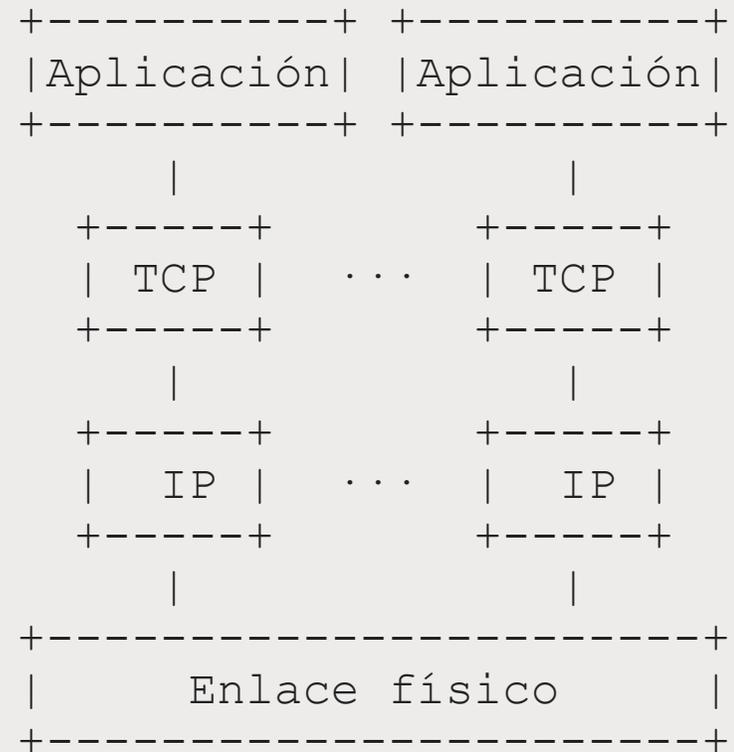
Beneficios

INDUCCIÓN

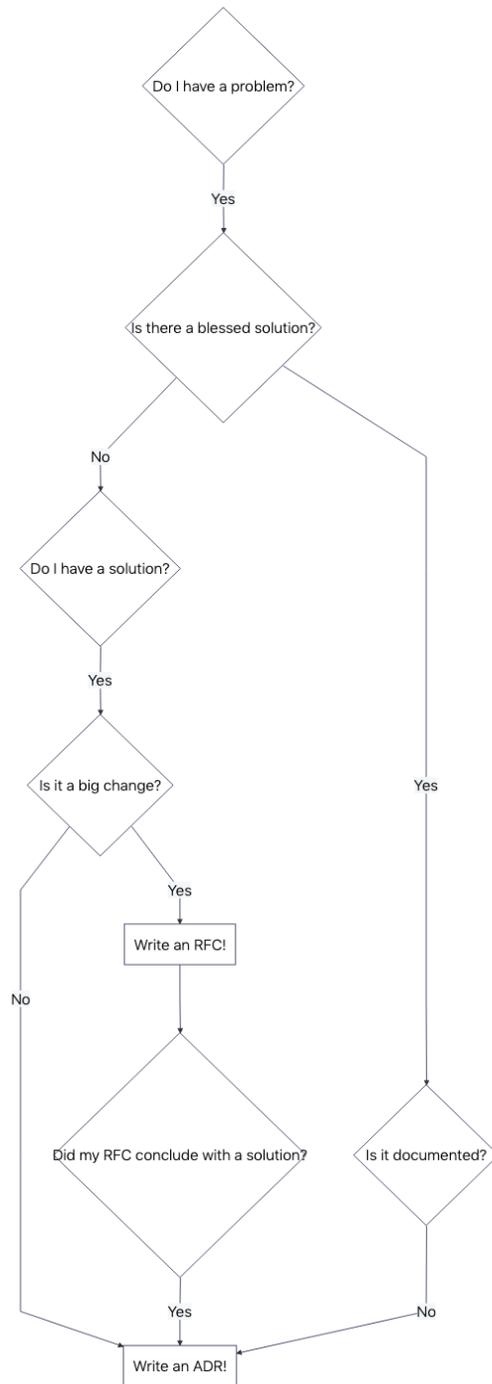TRASPASO DE PROPIEDAD

ALINEACIÓN

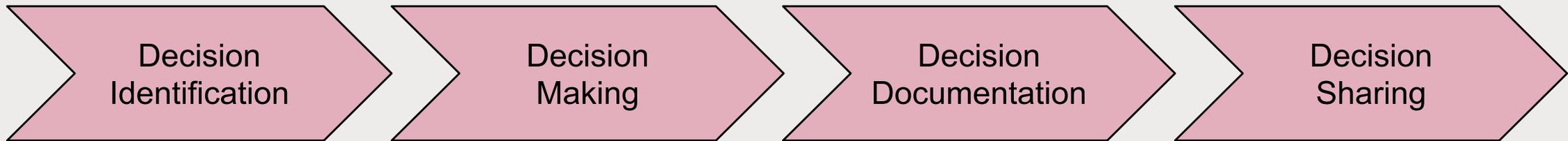# ¿Cuándo escribir una?

Se debe redactar un ADR siempre que se tome una decisión de impacto significativo.

Cómo implementar ADR

Decision Identification

Decision Making

Decision Documentation

Decision Sharing

Donde almacenar los ADR

Se suele almacenar junto a la otra documentación

1. Wiki
2. Git
3. Sistemas de documentación

Plantillas más populares

- Por Michael Nygard (simple y popular)

- Por Jeff Tyree y Art Akerman (más sofisticada)

- Patrón Alejandrino (simple y con casos específicos)

- Para caso de negocios (enfoque administrativo, análisis FODA…)

- MADR (orientado a Markdown)

- *Planguage* (orientado a la calidad)

Lightweight Architectural Decision Records

Es un **ADR** que consta de título, estado, contexto, decisión y consecuencias, propuesto por **Michael Nygard**.

ADR template by Michael Nygard

This is the template in Documenting architecture decisions - Michael Nygard. You can use adr-tools for managing the ADR files.

In each ADR file, write these sections:

Title

Status

What is the status, such as proposed, accepted, rejected, deprecated, superseded, etc.?

Context

What is the issue that we're seeing that is motivating this decision or change?

Decision

What is the change that we're proposing and/or doing?

Consequences

What becomes easier or more difficult to do because of this change?

Más plantillas de ejemplo

ADR template for business case

This ADR template emphasizes creating a business case for a decision, including critera, candidates, and costs.

Top-level

- Title
- Status
- Evaluation criteria
- Candidates to consider
- Research and analysis of each candidate
  - Does/doesn't meet criteria and why
  - Cost analysis
  - SWOT analysis
  - Opinions and feedback
- Recommendation

Caso de negocios

ADR template using Planguage

See http://www.iaria.org/conferences2012/filesICCGI12/Tutorial%20Specifying%20Effective%20Non-func.pdf
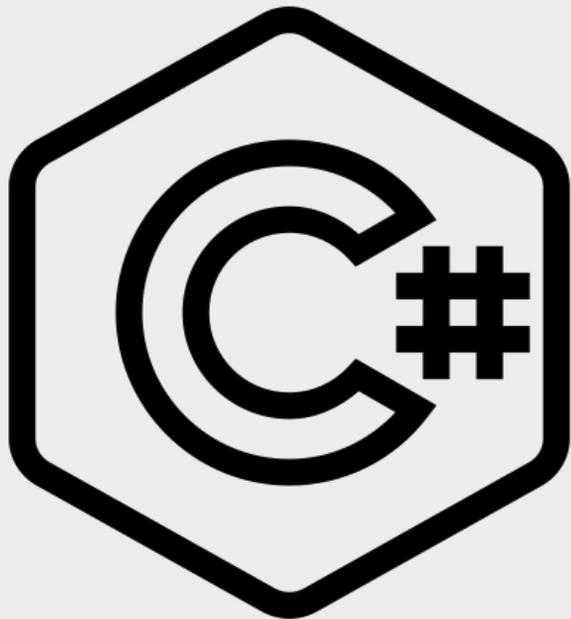
What is Planguage?

Planguage is a planning language that uses these keywords:

- Tag: A unique, persistent identifier
- Gist: A brief summary of the requirement or area addressed
- Requirement: The text that details the requirement itself
- Rationale: The reasoning that justifies the requirement
- Priority: A statement of priority and claim on resources
- Stakeholders: Parties materially affected by the requirement
- Status: The status of the requirement (draft, reviewed, committed, etc.)
- Owner: The person responsible for implementing the requirement
- Author: The person that wrote the requirement
- Revision: A version number for the statement
- Date: The date of the most recent revision
- Assumptions: Anything that could cause problems if untrue now or later
- Risks: Anything that could cause malfunction, delay, or other negative impacts
- Defined: The definition of a term (better to use a glossary)

Planguage

Herramientas (CLI)

Adr-j

Adr-cli

phpadr

¿Preguntas?