Architecture for Long-lived Apps

Hints and tips for App happiness

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Agenda

Software Architecture

Long-lived Apps

Tactics

Strategy

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Software Architecture

EVERYTHING YOU WANTED TO KNOW BUT DIDN'T DARE TO ASK

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Beware: There might be metaphors

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What is Software Architecture (about)?

Maintainability

Evolvability

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Architecture IS ~~not~~ for All

Long-lived Apps

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You never know

Tactics

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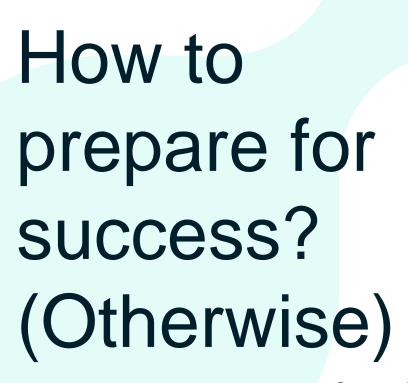# How to prepare for success? (Technically)

Early:

- Introduce unit tests

- Add flexibility

- Commit to a single style

Short Term:

- Start re-paying your technical debt

- Introduce integration tests

Long Term:

- Introduce end-to-end and contract tests

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How to prepare for success? (Otherwise)
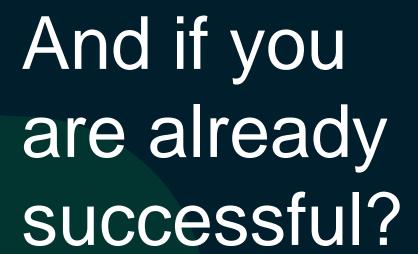
Early:

- Trusted circle of professionals

- Make them work together

- Adopt agile methodology

Short Term:

- Introduce code reviews

Long Term:

- Introduce post-mortem

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And if you are already successful?

ASAP:

- Introduce end-to-end tests
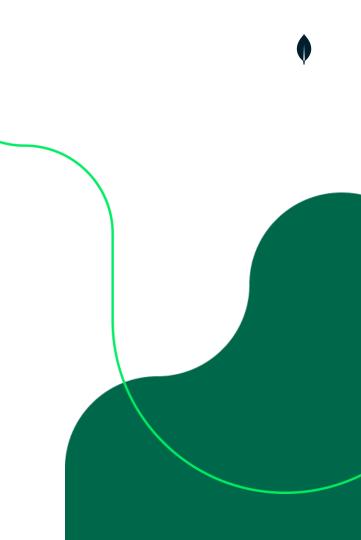
- Treat code as legacy

- Agile (NO full rewrite)

Short Term:

- Start incremental refactoring

- Define target architecture and stages

Long Term:

- Introduce unit and integration tests

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Strategy

HOWEVER BEAUTIFUL, LOOK AT THE RESULTS
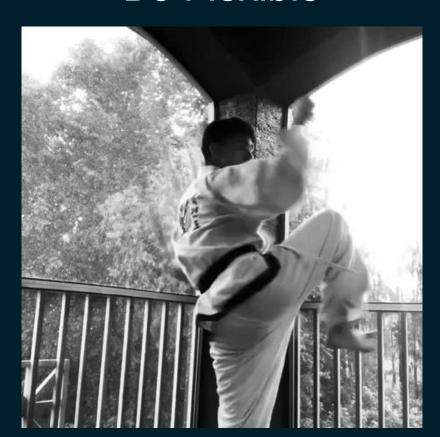
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Draw your Boundaries

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Be Flexible

Always Be Upgrading

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Measure against Business Goals

> ## Do or Do Not, There's no Try
>
> ## Do and keep trying!

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