

The Kanban Method

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Introduction

I - Introduction

- ▶ 'Kanban' is a Japanese word meaning billboard \signboard.
- ▶ The kanban method comes from the car industry in Japan.
- ▶ This method was invented in the late 40's, by Toyota.
- ▶ The goal was to optimize the car production and be more competitive.
- ▶ The main idea is to be able to produce on demand.
- ▶ The software industry began to use it at the beginning of the 21st Century.
- ▶ It helps you visualize your work and maximize your efficiency.

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I - Introduction

II - Kanban
Principles and How
it works ?

III - Advantages

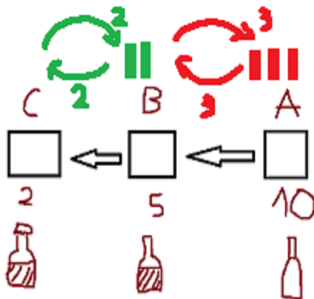
IV - Disavantages

V - Conclusion

Kanban Principles

II - Kanban Principles and How it works ?

- ▶ 'Kanban' method is a method of a "just-in-time" production
- ▶ Wanted quantities.
- ▶ Limiting production
- ▶ Produce to meet the demand



- ▶ the A's machine products 10 empty bottles per hour
- ▶ the B's machine fills 5 bottles per hour
- ▶ The C's machine adds 2 capsules per hour

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- ▶ Visualize the workflow
- ▶ Limiting the number of tasks
- ▶ manage the flow
- ▶ Make policy explicit (unambiguous, direct and clear)
- ▶ Feedback loops
- ▶ Improve collaboratively

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- ## I - Introduction

III - Advantages

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A set of small navigation icons typically found in Beamer presentations, including symbols for back, forward, search, and other slide controls.

Advantages

III - Advantages

- ▶ avoid overproduction
- ▶ good detection of problems
- ▶ more flexibility
- ▶ more collaboration

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Disadvantages

IV - Disadvantages

- ▶ Good organization needed
- ▶ No anticipation
- ▶ Not adapted for a complex and unrepetitive production
- ▶ Risk of out of stock
- ▶ Lots of formation and teaching

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Conclusion

V - Conclusion

- ▶ Optimize the production
- ▶ Maximize the efficiency
- ▶ Not suitable everywhere
- ▶ Automobile industry
- ▶ Other methods are more flexible ?

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Methodology

- ▶ First, we split up the work equitably between the five of us.
- ▶ Then, each of us worked on his part, using Github, in order for everyone to be able to see it.
- ▶ We had a videoconference call to fix some issues, and finalize this project.

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