



# Migrating to Vaadin 10

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# Three main strategies for migration

- Don't migrate
- Big bang all at once migration
- Incremental migration using MPR

# STRATEGY 1: DON'T MIGRATE

WHY MIGRATE? WHY NOT? WHEN?

# Why migrate?

- Involve frontend developers and simplify tweaking presentational details
- Mobile-friendlier components
- Future proofing: most new functionality that we develop will only be available if you migrate

# Why not?

- Analogy: Java 8 is still the most widely used version even though latest is 10 and 11 is out really soon
- Will require time
- Vaadin 8 will still be supported at least until 2022, commercial support even longer
- Some missing features, for now

# STRATEGY 2: BIG BANG

MIGRATING THE WHOLE UI IN ONE PROJECT

# Demo: the tutorial app

The image displays a Vaadin tutorial application interface. It features a main table of customer records, a modal dialog for filtering and editing, and a form for editing a selected customer.

**Main Table:**

First Name	Last Name	Email
Bernard	Nilsen	bernard@nilsen.com
Jaydan	Jackson	jaydan@jackson.com
Solomon	Olsen	solomon@olsen.com
Elvis	Olsen	elvis@olsen.com
Rene	Carlsson	rene@carlsson.com
Remington	Andersson	remington@andersson.com
Ann	Andersson	ann@andersson.com
Lara	Martin	lara@martin.com
Jamar	Olsson	jamar@olsson.com
Gunner	Karlsen	gunner@karlsen.com

**Modal Dialog:**

filter by name... [x] Add new customer

First Name	Last Name	Email
Bernard	Nilsen	bernard@nilsen.com
Jaydan	Jackson	jaydan@jackson.com
Solomon	Olsen	solomon@olsen.com
Elvis	Olsen	elvis@olsen.com
Rene	Carlsson	rene@carlsson.com
Remington	Andersson	remington@andersson.com
Ann	Andersson	ann@andersson.com
Lara	Martin	lara@martin.com
Jamar	Olsson	jamar@olsson.com
Gunner	Karlsen	gunner@karlsen.com
Leland	Harris	leland@harris.com
Danielle	Watson	danielle@watson.com
Makena	Smith	makena@smith.com

**Form:**

First name: Bernard

Last name: Nilsen

Email: bernard@nilsen.com

Status: Customer [x] v

Birthday: 18/5/1995 [x] [calendar icon]

Buttons: Save, Delete

What has changed?  
What not?

What to do in full migration.

## 1. Architectural concepts stay the same

- Application architecture can stay mostly the same. Migration is mostly mechanical job.
  - Example: MVP - only V needs to change
- Binder and DataProvider interfaces are the same
- Vaadin 7 Container don't exist -> more work needed



What has changed?  
What not?

What to do in full migration.

## 2. Build

- Dependencies
- vaadin-maven-plugin goals
  - Widgetset and theme compilation -> transpilation, minification and bundling

# What has changed? What not?

What to do in full migration.

## 3. Components

- Basic features the same, e.g. Button and VerticalLayout
  - Some method changes: addComponents -> add, setExpandRatio -> setFlexGrow
- CustomLayout -> Polymer template
- Some components replaced with low level HTML elements: CssLayout -> Div, Label -> Span or Text
- In general, many APIs now closer to their native elements

# What has changed? What not?

What to do in full migration.

## 4. Navigation

- Navigator replaced with @Route annotation and declarative mapping
- Spring and CDI had declarative view mapping and automatic servlet declaration already, now for plain Servlet
- Spring and CDI views don't need special annotations

What has changed?  
What not?

What to do in full migration.

## More details in docs

For more details, see *Migrating from Vaadin 8 to Vaadin 10* in [vaadin.com/docs](https://vaadin.com/docs)

# STRATEGY 3: INCREMENTAL

VIEW BY VIEW MIGRATION USING MPR

# MPR WTF?

- Multiplatform Runtime is a tool to help incremental migration to Vaadin 10+
- Commercial helper to embed old views or components inside modern Vaadin platform

# Vaadin Multiplatform Runtime

- Same communication channel with multiple versions
- Fully integrated solution
- Navigator integration
- Beta to be released in September
  - V7 version first, V8 will come shortly after

# QUESTIONS?

AND ANSWERS