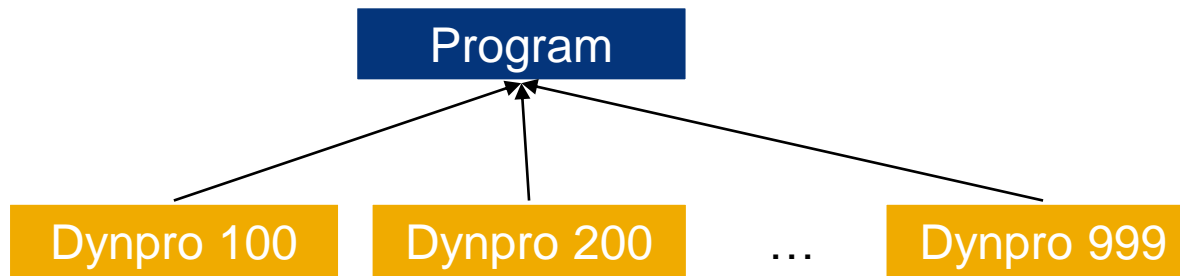# ABAP Course

Chapter 5 – "Classic" Dynpros

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Author: Valentin Nicolescu, André Bögelsack

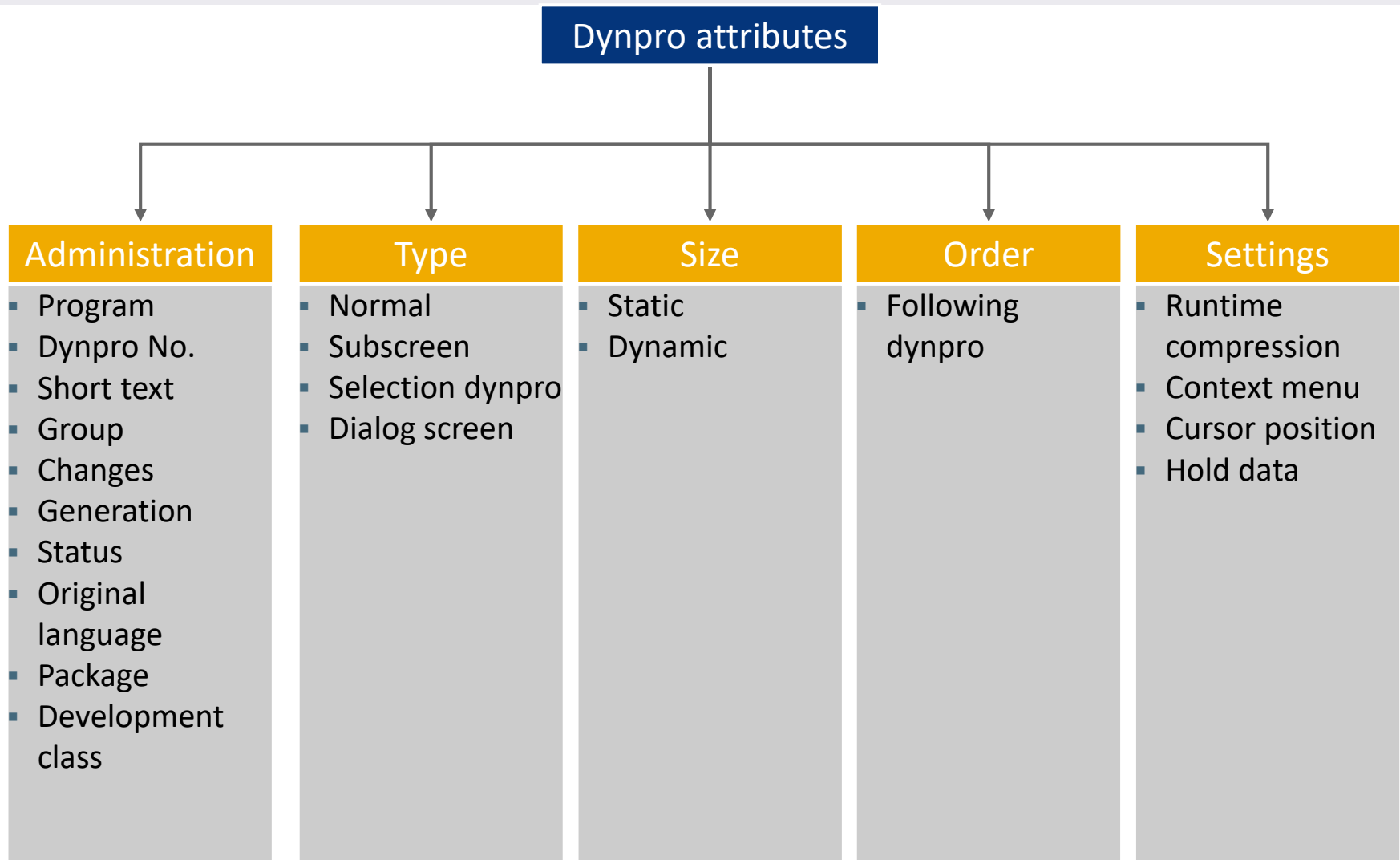# Agenda

1. Dynpro attributes

2. Dynpro runtime

3. Creation of Dynpros

4. Title and status bar

5. Entry help in Dynpros

Dynpro attributes

- Dynpro = DYNamic PROgram

- Several Dynpros form a program

- Programs using Dynpros can be accessed only by means of transaction codes

- Programs using Dynpros are also organized in module pools

- Distinction between input and output modules for a Dynpro

- Every Dynpro has a unique ID in a program

```
                        Program

   Dynpro 100   Dynpro 200   …   Dynpro 999
```

Dynpro attributes

- Dynpros use their own instructions for coordinating runtime behavior → Generated code, which can't be directly changed in ABAP

- But: Dynpros call modules which are implemented in ABAP

- Modules called by a Dynpro control the runtime behavior

Dynpro attributes

Dynpro attributes

Administration	Type	Size	Order	Settings
▪ Program	▪ Normal	▪ Static	▪ Following	▪ Runtime
▪ Dynpro No.	▪ Subscreen	▪ Dynamic	dynpro	compression
▪ Short text	▪ Selection dynpro			▪ Context menu
▪ Group	▪ Dialog screen			▪ Cursor position
▪ Changes				▪ Hold data
▪ Generation				
▪ Status				
▪ Original language				
▪ Package				
▪ Development class				

Source: Following SAP

Dynpro attributes

- Dynpros may contain following elements:
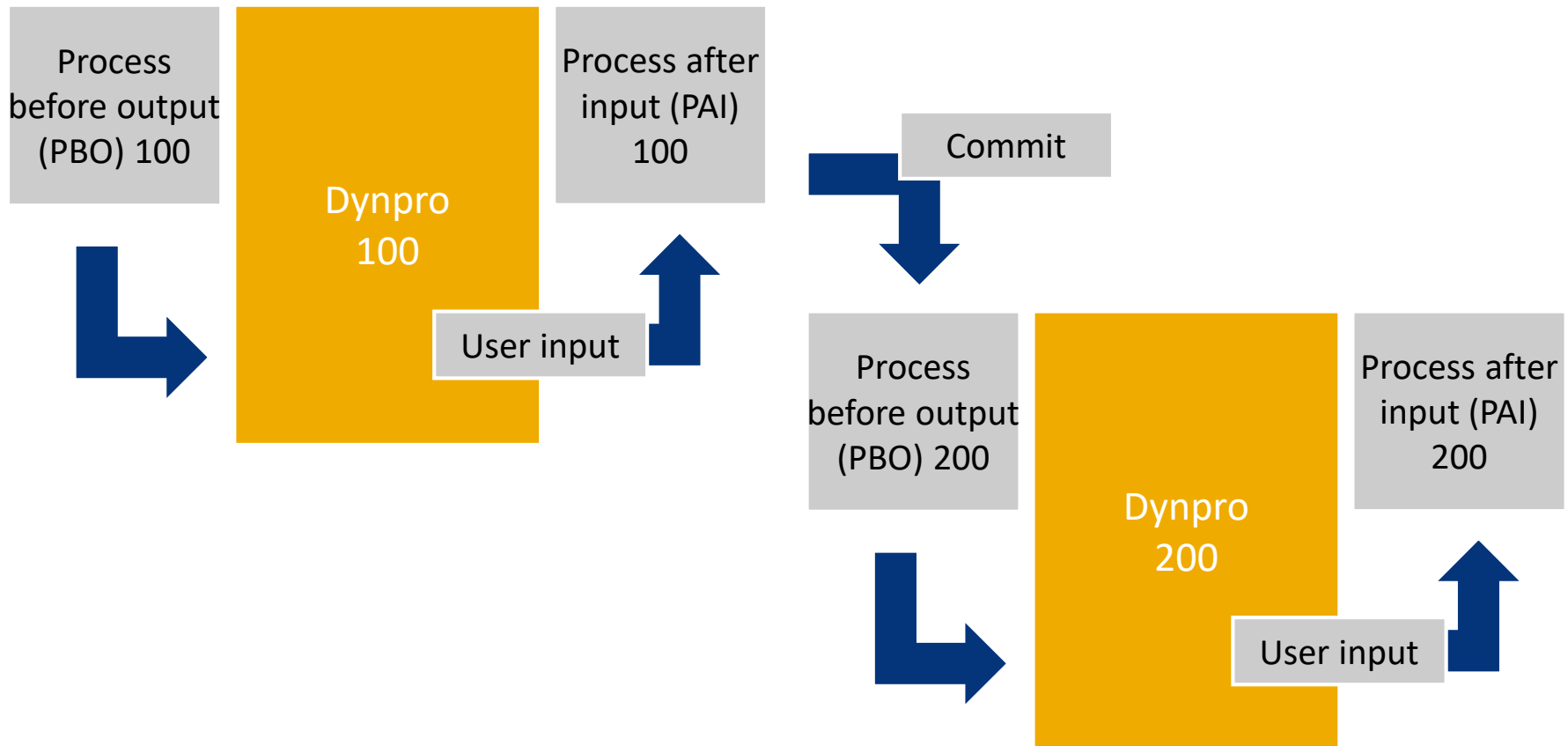 - Text
  - Input fields
  - Check boxes
  - Radio buttons
  - Buttons
  - Tabs
  - Frame
  - Subscreens
  - Table controls
  - Custom controls

- Element attributes may be changed during runtime

Dynpro runtime

Create a new dynpro

Screenpainter

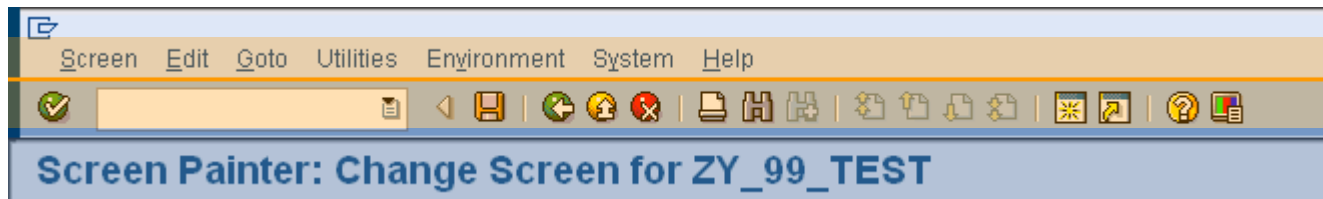| Dynpro attributes	Dynpro layout	Element attributes	Processing logic

- Dynpro no. 100
- Short text
- Dynpro type = normal
- Next dynpro = 200
- …
	- Flight number
	- Input field
		- NUMBER
		- 10 characters
			PROCESS BEFORE OUTPUT
			  MODULE INIT
			PROCESS AFTER INPUT
			  MODULE READ_100

Step 1	Step 2	Step 3	Step 4

Graphical Screen Painter

- The Graphical Screen Painter is an external program, which is integrated into SAPGui

- Can be used to draw custom Dynpros

- Elements can be referenced to the Data Dictionary (e.g. tables)

- If you did not install the Graphical Screen Painter you can use the older Screen Painter.

Graphical Screen Painter

- Several views available:
  - Main view: contains the main elements of your Dynpro, which can be edited
  - Element list: contains all element's attributes from your Dynpro
  - Dictionary: contains elements from the data dictionary which may be inserted into your Dynpro
  - Attributes: contains attributes of one element from your Dynpro

Title and status bar

- Title defines the title of the Dynpro
- Status bar defines the menu and the flexible and fixed tool bar
- Status bar defines OK_CODE of elements
- For each Dynpro you may define a title and status bar

Status

Title