



# Business Process Model and Notation



# Agenda

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**02** BPMN BASICS

**03** EVENT

**04** ACTIVITY

**05** GATEWAY

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**08** ARTIFACT

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# What is BPMN?



# What is BPMN?

**Business Process Model and Notation (BPMN)** is a graphical representation for specifying business processes in a business process model.

BPMN will provide businesses with the capability of understanding their internal business procedures in a graphical notation and will give organizations the ability to communicate these procedures in a standard manner. Furthermore, the graphical notation will facilitate the understanding of the performance collaborations and business transactions between the organizations. This will ensure that businesses will understand themselves and participants in their business and will enable organizations to adjust to new internal and B2B business circumstances quickly.

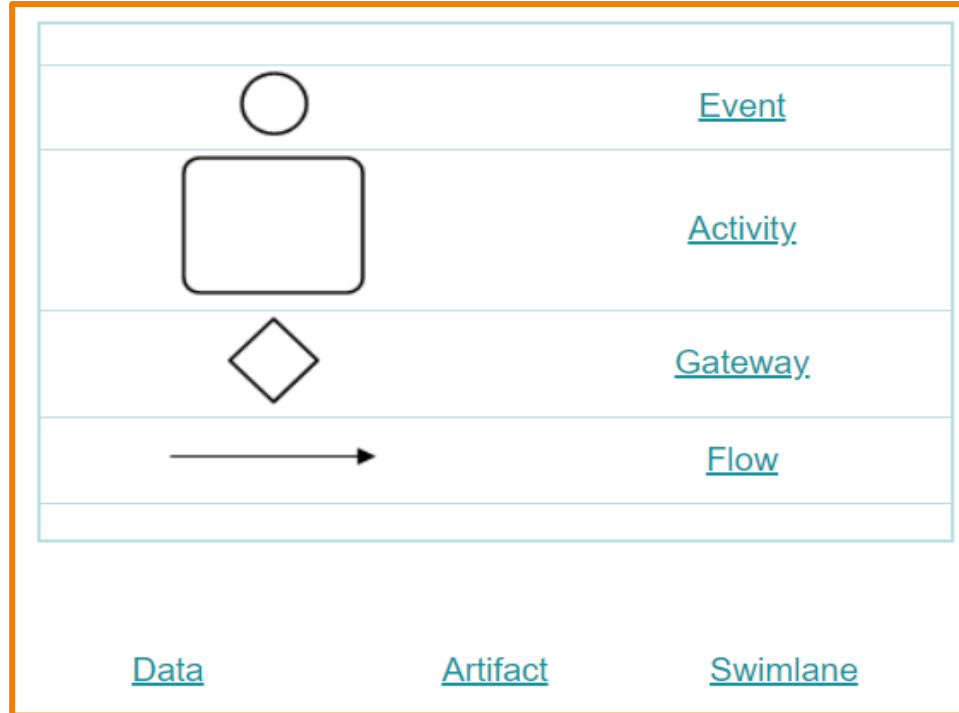
Business Process Management Initiative developed BPMN, which has been maintained by the Object Management Group since the two organizations merged in 2005.



# BPMN Basics



# BPMN Basics



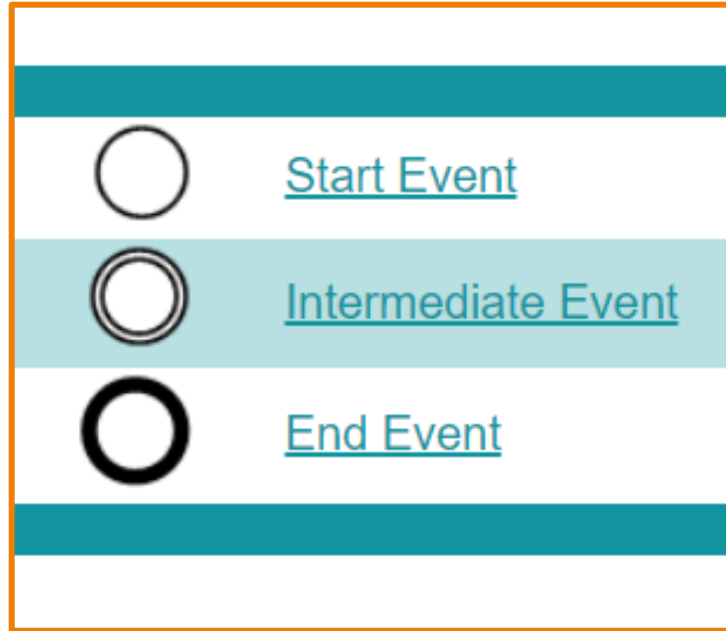
# Event

Start, Intermediate, End

















# Event





















# Start Event

|   |  |
|---|--|
|    | None Start Event                                 |
|    | Interrupting - Message Start Event               |
|    | Non-interrupting - Message Start Event           |
|    | Interrupting - Timer Start Event                 |
|    | Non-interrupting - Timer Start Event             |
|    | Interrupting - Conditional Start Event           |
|    | Non-interrupting - Conditional Start Event       |
|    | Interrupting Signal Start Event                  |
|    | Non-interrupting - Signal Start Event            |
|    | Interrupting Multiple Start Event                |
|    | Non-interrupting Multiple Start Event            |
|    | Interrupting - Parallel Multiple Start Event     |
|    | Non-interrupting - Parallel Multiple Start Event |
|    | Interrupting - Escalation Start Event            |
|    | Non-interrupting - Escalation Start Event        |
|    | Interrupting - Error Start Event                 |
|  | Interrupting - Compensation Start Event          |












# Intermediate Event

|   |  |
|---|--|
|  | Interrupting - None Intermediate Event                           |
|  | Catch - Message Intermediate Event                               |
|  | Interrupting - Boundary - Catch - Message Intermediate Event     |
|  | Non-interrupting - Boundary - Catch - Message Intermediate Event |
|  | Throw - Message Intermediate Event                               |
|  | Timer Intermediate Event   |
|  | Interrupting - Boundary - Timer Intermediate Event               |
|  | Non-interrupting Boundary - Timer Intermediate Event             |
|  | Conditional Intermediate Event                                   |
|  | Interrupting - Boundary - Conditional Intermediate Event         |
|  | Non-interrupting - Boundary - Conditional Intermediate Event     |
|  | Catch - Signal Intermediate Event                                |
|  | Interrupting - Boundary - Catch - Signal Intermediate Event      |
|  | Non-interrupting - Boundary - Catch - Signal Intermediate Event  |
|  | Interrupting - Boundary - Throw - Signal Intermediate Event      |
|  | Catch - Multiple Intermediate Event                              |
|  | Interrupting - Boundary - Catch - Multiple Intermediate Event    |
|  | Non-interrupting Boundary - Catch - Multiple Intermediate Event  |

|   |  |
|---|--|
|  | Non-interrupting Boundary - Catch - Multiple Intermediate Event          |
|  | Throw - Multiple Intermediate Event                                      |
|  | Catch - Parallel Multiple Intermediate Event                             |
|  | Interrupting - Boundary - Catch - Parallel Multiple Intermediate Event   |
|  | Non-interrupting Boundary - Catch - Parallel Multiple Intermediate Event |
|  | Catch - Escalation Intermediate Event                                    |
|  | Interrupting - Boundary - Catch - Escalation Intermediate Event          |
|  | Non-interrupting - Boundary - Catch - Escalation Intermediate Event      |
|  | Throw - Escalation Intermediate Event                                    |
|  | Boundary - Catch - Error Intermediate Event                              |
|  | Boundary - Catch - Compensation Intermediate Event                       |
|  | Throw - Compensation Intermediate Event                                  |
|  | Catch - Link Intermediate Event  |
|  | Throw - Link Intermediate Event  |
|  | Boundary - Catch - Cancel Intermediate Event                             |



# End Event

|   |                        |
|---|------------------------|
|  | None End Event         |
|  | Message End Event      |
|  | Signal End Event       |
|  | Multiple End Event     |
|  | Escalation End Event   |
|  | Error End Event        |
|  | Compensation End Event |
|  | Cancel End Event       |
|  | Terminate End Event    |

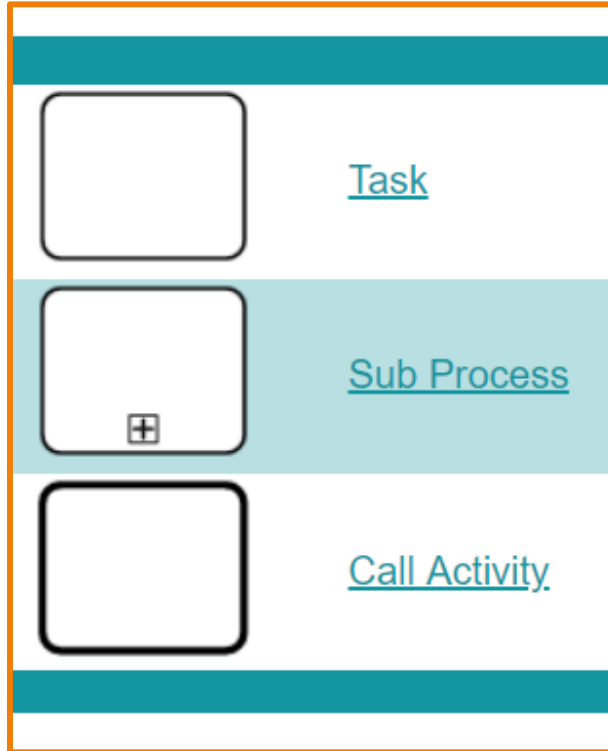


# Activity









Tasks, Sub Process, Adhoc Sub Process, Transaction, Event Sub Process, Call Activity



# Activity

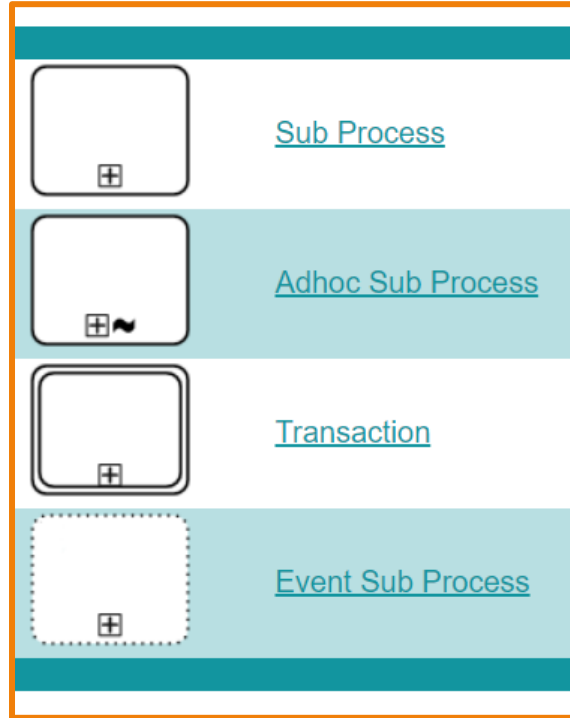


# Task

|   |                    |
|---|--------------------|
|  | Abstract Task      |
|  | Service Task       |
|  | Send Task          |
|  | Receive Task       |
|  | User Task          |
|  | Manual Task        |
|  | Business Rule Task |
|  | Script Task        |

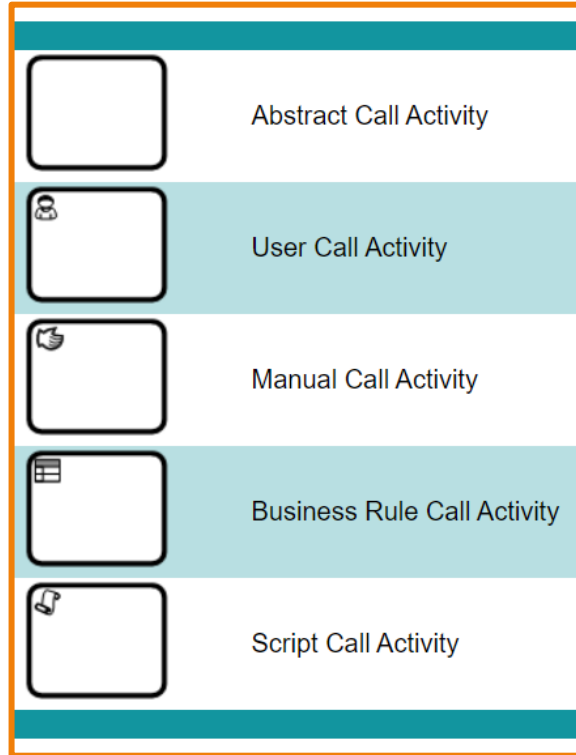


# Sub Process





# Call Activity



# Gateway

Exclusive, Inclusive, Parallel, Event Based, Complex



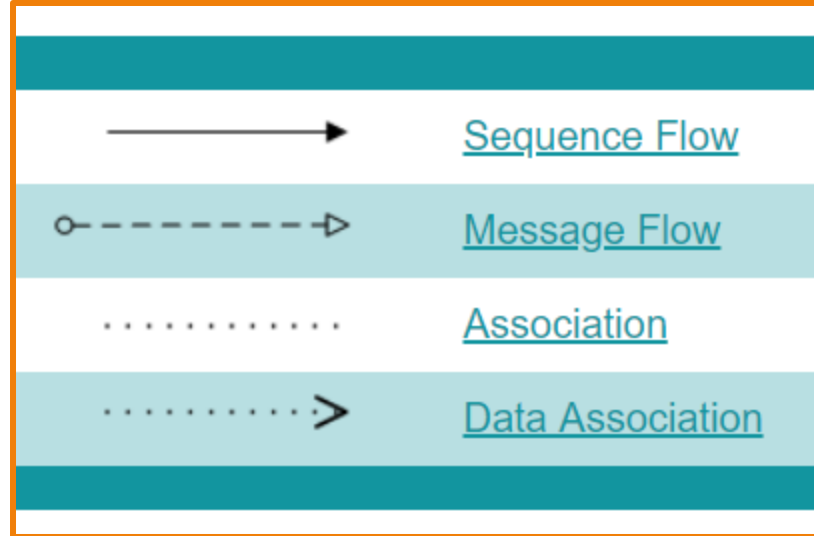
|   |   |
|---|---|
|  | Exclusive Gateway - without Marker              |
|  | Exclusive Gateway - with Marker                 |
|  | Inclusive Gateway                               |
|  | Parallel Gateway                                |
|  | Complex Gateway                                 |
|  | Event-Based Gateway                             |
|  | Event-Based Gateway to Start a Process          |
|  | Parallel Event-Based Gateway to Start a Process |



# Flow

Sequence, Message, Association, Data Association












# Data

Input, Output, Store



|   |                        |
|---|------------------------|
|  | Data Object            |
|  | Data Object Collection |
|  | Data Input             |
|  | Data Input Collection  |
|  | Data Output            |
|  | Data Output Collection |
|  | Data Store             |

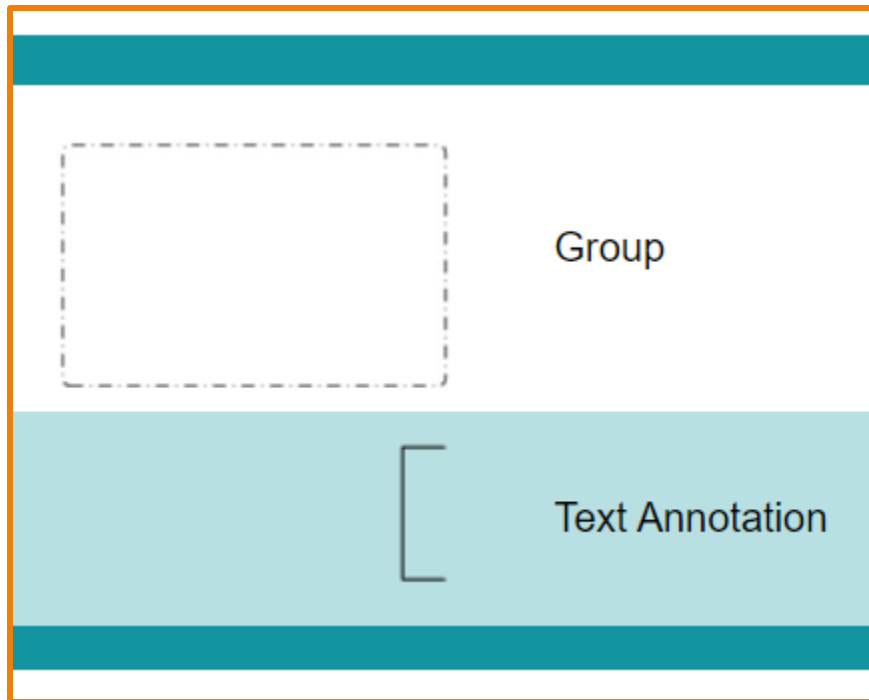


# Artifact

Group, Text Annotation







# Swimlane

Lane, Pool



# Swimlane

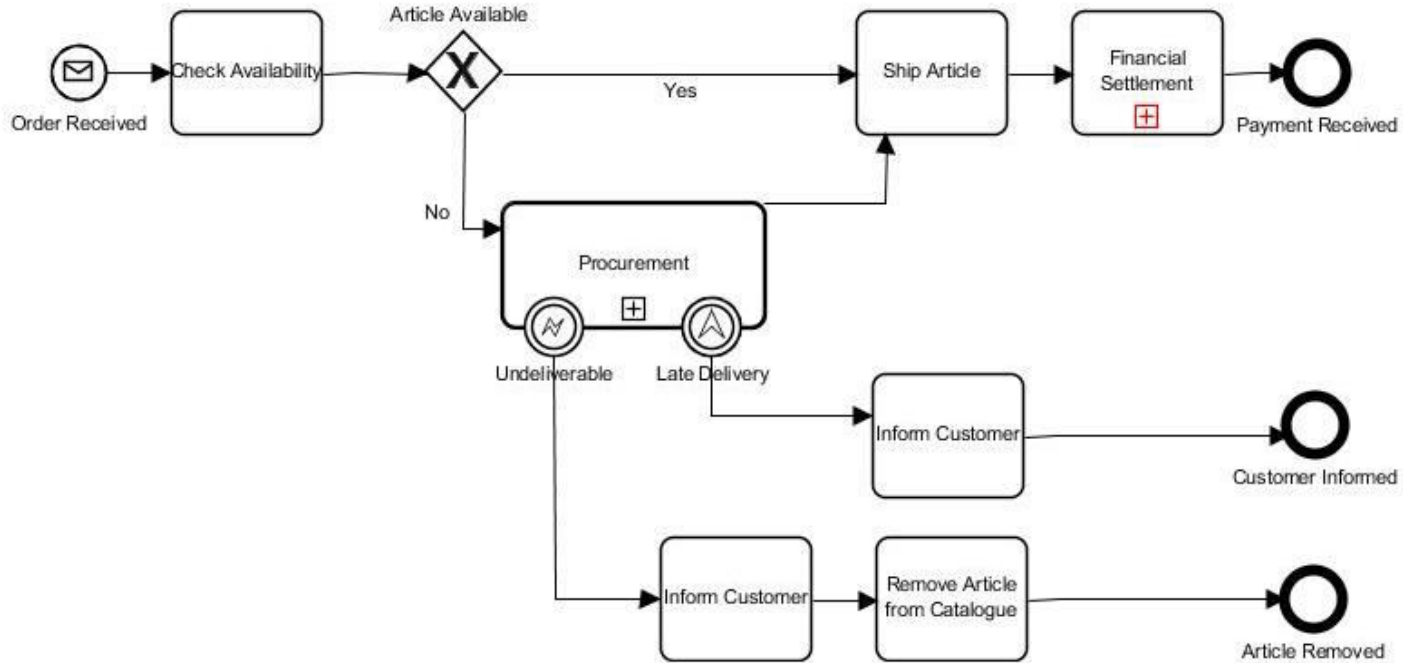


# BPMN Example

Process Model



# BPMN Example



# Quiz

BPMN



## BPMN Stands for

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- a) Business Process Management Notation
- b) Business Process Model and Notation
- c) Business Project Modeling Notation
- d) Business Product Making Notation



## BPMN Stands for

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- a) Business Process Management Notation
- b) Business Process Model and Notation**
- c) Business Project Modeling Notation
- d) Business Product Making Notation





## Intermediate Events can occur before start events

- a) True
- b) False



## Intermediate Events can occur before start events

a) True

b) False

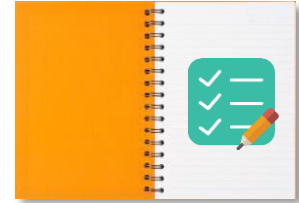


# Conclusion



## In this session, you have learnt:

- BPMN
- BPMN Basics
- Event
- Activity
- Gateway
- Flow
- Data
- Artifact
- Swimlane
- BPMN Example





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