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PlantUML > Language specification > WBS Diagram >

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Work Breakdown Structure (WBS)

WBS diagram are still in beta: the syntax may change without notice.

OrgMode syntax

This syntax is compatible with OrgMode

@startwbs
* Business Process Modelling WBS
** Launch the project
*** Complete Stakeholder Research
*** Initial Implementation Plan
** Design phase
*** Model of ASIs Processes Completed
**** Model of ASIs Processes Completed1
**** Model of ASIs Processes Completed2
*** Measure ASIs performance metrics
*** Identify Quick Wins
** Complete innovate phase
@endwbs

```
graph TD
    Root[Business Process Modelling WBS] --> Launch[Launch the project]
    Root --> Design[Design phase]
    Root --> Innovate[Complete innovate phase]
    Launch --> CSR[Complete Stakeholder Research]
    Launch --> IIP[Initial Implementation Plan]
    Design --> MASPC[Model of ASIs Processes Completed]
    MASPC --> MASPC1[Model of ASIs Processes Completed1]
    MASPC --> MASPC2[Model of ASIs Processes Completed2]
    Design --> MASM[Measure ASIs performance metrics]
    Design --> IQW[Identify Quick Wins]
```

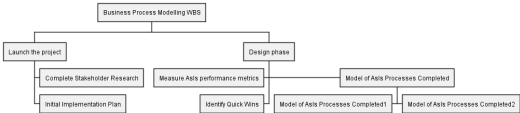
Change direction

You can change direction using < and >

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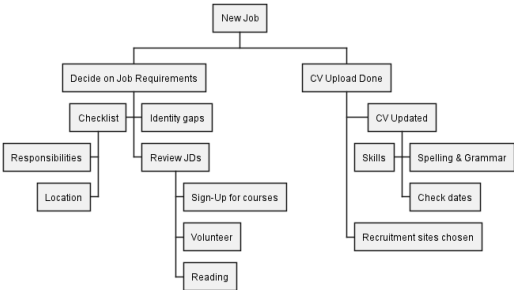
```
* Business Process Modelling WBS
** Launch the project
*** Complete Stakeholder Research
*** Initial Implementation Plan
** Design phase
*** Model of AsIs Processes Completed
****< Model of AsIs Processes Completed1
****> Model of AsIs Processes Completed2
***< Measure AsIs performance metrics
***> Identify Quick Wins
@endwbs
```



Arithmetic notation

You can use the following notation to choose diagram side.

```
@startwbs
+ New Job
++ Decide on Job Requirements
+++ Identity gaps
+++ Review JDs
++++ Sign-Up for courses
++++ Volunteer
++++ Reading
++- Checklist
++- Responsibilities
++- Location
++ CV Upload Done
+++ CV Updated
++++ Spelling & Grammar
++++ Check dates
---- Skills
+++ Recruitment sites chosen
@endwbs
```



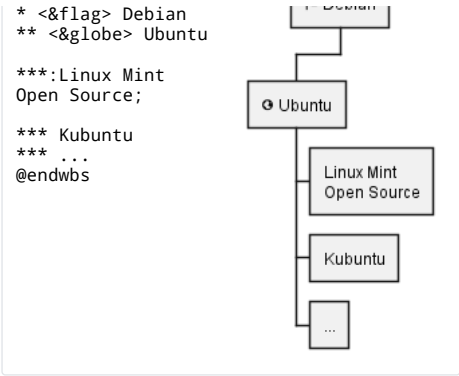
Multilines

You can use : and ; to have multilines box, as on MindMap.

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- OrgMode syntax
- Change direction
- Arithmetic notation
- Multilines
- Removing box
- Colors (with inline or style color)
- Using style
- Word Wrap

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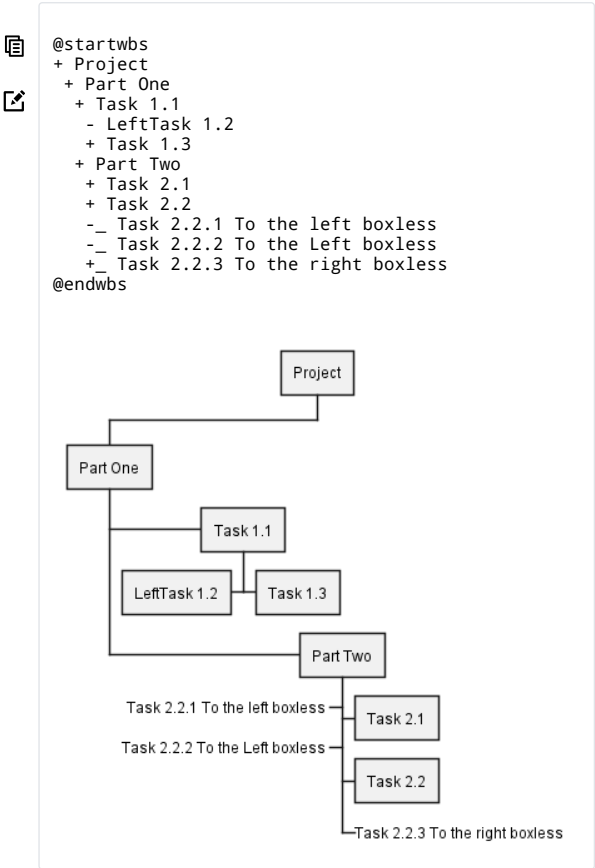
[Ref. [QA-13945](#)]

✖ **Removing box**

You can use underscore _ to remove box drawing.

Boxless on Arithmetic notation

Several boxless node

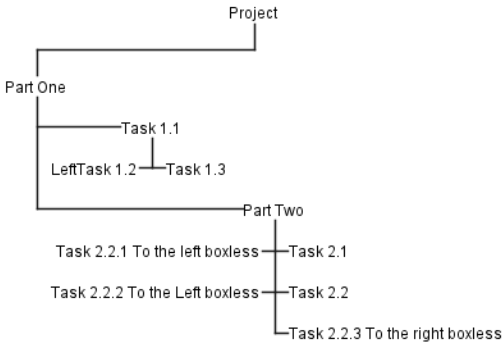


All boxless node

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```
+_ Project
+_ Part One
+_ Task 1.1
- LeftTask 1.2
+_ Task 1.3
+_ Part Two
+_ Task 2.1
+_ Task 2.2
- Task 2.2.1 To the left boxless
- Task 2.2.2 To the Left boxless
+_ Task 2.2.3 To the right boxless
@endwbs
```



Boxless on OrgMode syntax

Several boxless node

@startwbs

* World

** America

*** Canada

*** Mexico

*** USA

** Europe

*** England

*** Germany

*** Spain

@endwbs

[Ref. [QA-13297](#)]

All boxless node

@startwbs

* World

** America

*** Canada

*** Mexico

*** USA

** Europe

*** England

*** Germany

*** Spain

@endwbs

[Ref. [QA-13355](#)]

✎ Colors (with inline or style color)

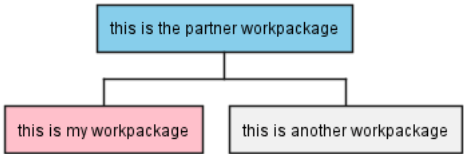
It is possible to change node color:

- with inline color

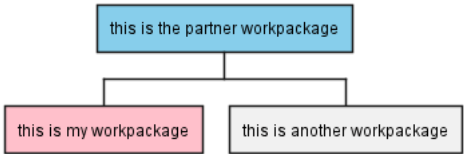


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```
—
* [#SkyBlue] this is the partner workpackage
** [#pink] this is my workpackage
** this is another workpackage
@endwbs
```



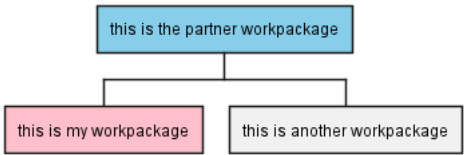
```
@startwbs
+ [#SkyBlue] this is the partner workpackage
+ [#pink] this is my workpackage
+ this is another workpackage
@endwbs
```



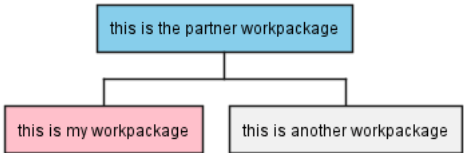
[Ref. [QA-12374](#), only from v1.2020.20]

- with style color

```
@startwbs
<style>
wbsDiagram {
.pink {
    BackgroundColor pink
}
.your_style_name {
    BackgroundColor SkyBlue
}
}
</style>
* this is the partner workpackage <<your_style_name>>
** this is my workpackage <<pink>>
** this is another workpackage
@endwbs
```



```
@startwbs
<style>
wbsDiagram {
.pink {
    BackgroundColor pink
}
.your_style_name {
    BackgroundColor SkyBlue
}
}
</style>
+ this is the partner workpackage <<your_style_name>>
++ this is my workpackage <<pink>>
++ this is another workpackage
@endwbs
```

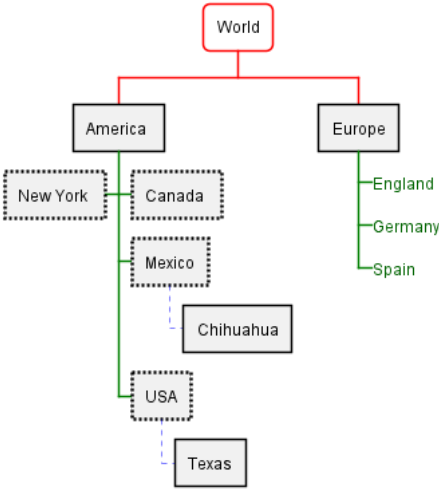


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Using style

It is possible to change diagram style.

```
@startwbs
<style>
wbsDiagram {
  // all lines (meaning connector and borders, the
  LineColor black
  arrow {
    // note that connector are actually "arrow" e
    // This is to be consistent with other UML di
    // So now connector are green
    LineColor green
  }
  :depth(0) {
    // will target root node
    BackgroundColor White
    RoundCorner 10
    LineColor red
    // Because we are targetting depth(0) for e
  }
  arrow {
    :depth(2) {
      // Targetting only connector between Mexico
      LineColor blue
      LineStyle 4
      LineThickness .5
    }
  }
  node {
    :depth(2) {
      LineStyle 2
      LineThickness 2.5
    }
  }
  boxless {
    // will target boxless node with '_'
    FontColor darkgreen
  }
}
</style>
* World
** America
*** Canada
*** Mexico
**** Chihuahua
**** USA
**** Texas
***< New York
** Europe
*** _ England
*** _ Germany
*** _ Spain
@endwbs
```



Word Wrap

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последовательность прецедентов классов активности активности **ветв** компонент состояний объ

@startwbs

```
<style>
node {
  Padding 12
  Margin 3
  HorizontalAlignment center
  LineColor blue
  LineThickness 3.0
  BackgroundColor gold
  RoundCorner 40
  MaximumWidth 100
}

rootNode {
  LineStyle 8.0;3.0
  LineColor red
  BackgroundColor white
  LineThickness 1.0
  RoundCorner 0
  Shadowing 0.0
}

leafNode {
  LineColor gold
  RoundCorner 0
  Padding 3
}

arrow {
  LineStyle 4
  LineThickness 0.5
  LineColor green
}
</style>

* Hi =)
** sometimes i have node in wich i want to write a
*** this results in really huge diagram
**** of course, i can explicit split with a\nnew line
**** but it could be cool if PlantUML was able to

@endwbs
```