

# PSTricks

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## **pst-gantt**

Gantt charts; v.0.22

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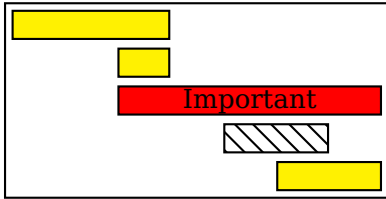
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`pst-gantt` loads by default the following packages: `pst-node`, `pst-grad`, `pst-xkey`, and, of course `pstricks`. All should be already part of your local  $\TeX$  installation. If not, or in case of having older versions, go to <http://www.CTAN.org/> and load the newest version.

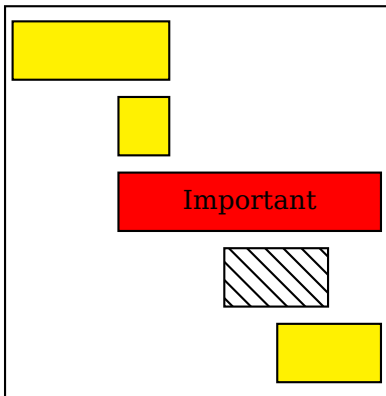
## 1 Environments and Macros

The main environment is `PstGanttChart` with the following syntax:

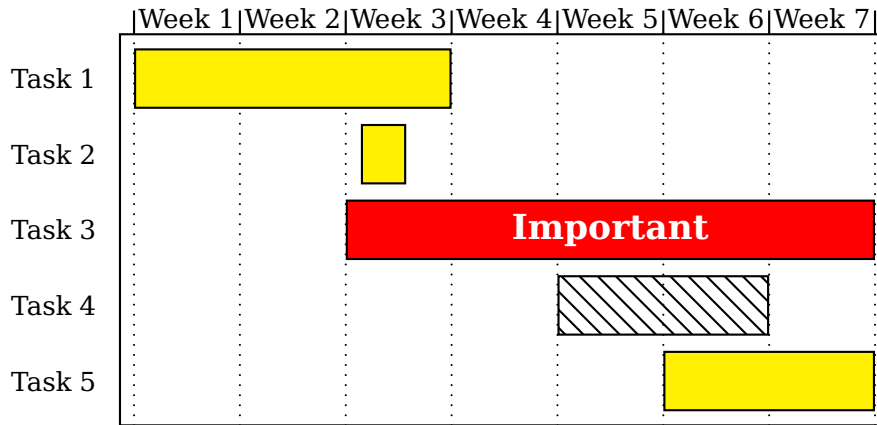
```
\begin{PstGanttChart} [Options] {vertical units}{horizontal units}
... \end{PstGanttChart}
\PstGanttTask [Options] {Start}{End}
```



```
1 \newsstyle{Important}{fillstyle=solid,
   fillcolor=red}
2 \newsstyle{NotImportant}{fillstyle=vlines}
3 \begin{PstGanttChart}{5}{7}
4 \PstGanttTask{0}{3}
5 \PstGanttTask{2}{1}
6 \PstGanttTask[TaskStyle=Important,
   TaskInsideLabel=Important]{2}{5}
7 \PstGanttTask[TaskStyle=NotImportant]{4}{2}
8 \PstGanttTask{5}{2}
9 \end{PstGanttChart}
```



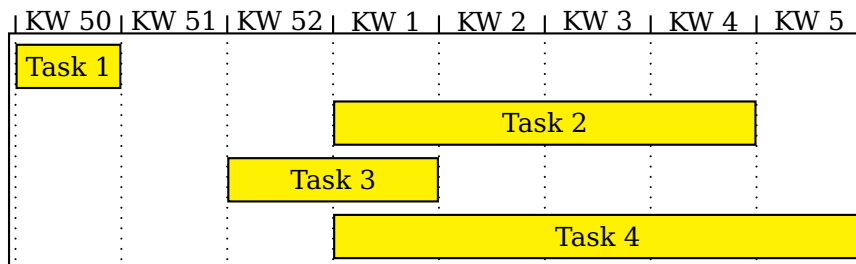
```
1 \newsstyle{Important}{fillstyle=solid,
   fillcolor=red}
2 \newsstyle{NotImportant}{fillstyle=vlines}
3 \begin{PstGanttChart}[yunit=2]{5}{7}
4 \PstGanttTask{0}{3}
5 \PstGanttTask{2}{1}
6 \PstGanttTask[TaskStyle=Important,%
   TaskInsideLabel=Important]{2}{5}
7 \PstGanttTask[TaskStyle=NotImportant]{4}{2}
8 \PstGanttTask{5}{2}
9 \end{PstGanttChart}
```



```

1 \newsstyle{Important}{fillstyle=solid,fillcolor=red}
2 \newsstyle{NotImportant}{fillstyle=vlines}
3 \begin{PstGanttChart}[unit=2,TaskOutsideLabelMaxSize=1,
4   ChartShowIntervals]{5}{7}
5 \PstGanttTask[TaskOutsideLabel={Task 1}]{0}{3}
6 \PstGanttTask[TaskOutsideLabel={Task 2},TaskUnitType=Day]{15}{3}%3 days start
   at 15
7 \PstGanttTask[TaskStyle=Important,TaskOutsideLabel={Task 3},
8   TaskInsideLabel={\Large\textcolor{white}{\textbf{Important}}}] {2}{5}
9 \PstGanttTask[TaskStyle=NotImportant,TaskOutsideLabel={Task 4}]{4}{2}
10 \PstGanttTask[TaskOutsideLabel={Task 5}]{5}{2}
11 \end{PstGanttChart}

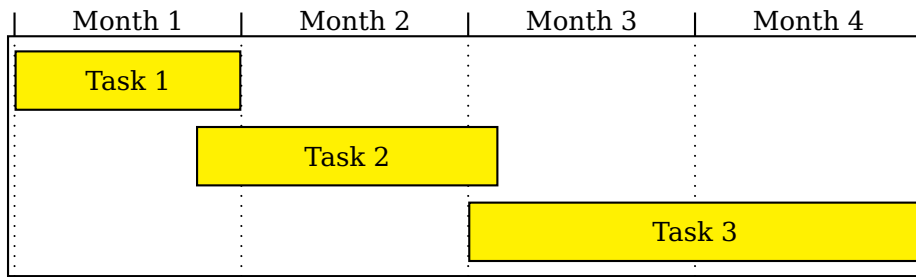
```



```

1 \begin{PstGanttChart}[yunit=1.5,
2   ChartUnitIntervalName=KW,ChartUnitBasicIntervalName=KW,
3   ChartModulo,ChartModuloValue=52,
4   TaskUnitIntervalValue=14,TaskUnitType=KW,ChartStartInterval=49,
5   ChartShowIntervals]{4}{8}
6 \PstGanttTask[TaskInsideLabel={Task 1}]{0}{1}
7 \PstGanttTask[TaskInsideLabel={Task 2}]{3}{4}
8 \PstGanttTask[TaskInsideLabel={Task 3}]{2}{2}
9 \PstGanttTask[TaskInsideLabel={Task 4}]{3}{5}
10 \end{PstGanttChart}

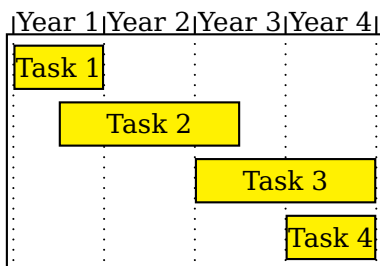
```



```

1 \begin{PstGanttChart}[yunit=2,ChartUnitIntervalName=Month,
2   TaskUnitIntervalValue=30,TaskUnitType=Month,ChartShowIntervals]{3}{4}
3 \PstGanttTask[TaskInsideLabel={Task 1}]{0}{1}
4 \PstGanttTask[TaskInsideLabel={Task 2},TaskUnitType=Day]{24}{40}% 40 days
   start at 24
5 \PstGanttTask[TaskInsideLabel={Task 3}]{2}{2}
6 \end{PstGanttChart}

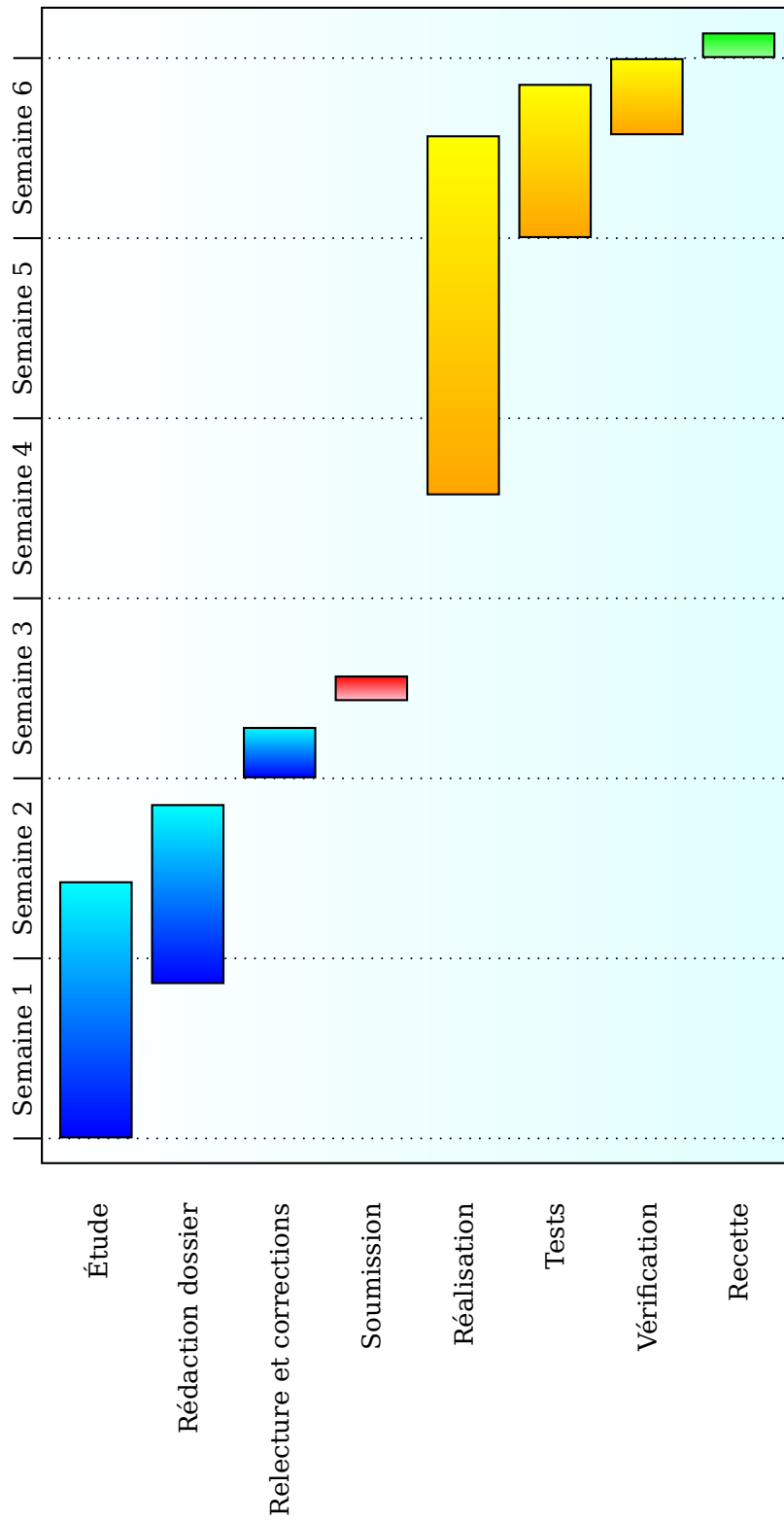
```



```

1 \begin{PstGanttChart}[yunit=1.5,
2   ChartUnitIntervalName=Year,
3   ChartUnitBasicIntervalName=Month,
4   TaskUnitIntervalValue=12,
5   TaskUnitType=Year,
6   ChartShowIntervals]{4}{4}
7 \PstGanttTask[TaskInsideLabel={Task
8   1}]{0}{1}
9 \PstGanttTask[TaskInsideLabel={Task 2},
   TaskUnitType=Month]{6}{24}% 24 months
   start at 6
10 \PstGanttTask[TaskInsideLabel={Task
11   3}]{2}{2}
12 \PstGanttTask[TaskInsideLabel={Task
   4}]{3}{1}
\end{PstGanttChart}

```



```

1 \definecolor{LightCyan} {rgb}{0.88,1.,1.}
2 \definecolor{Orange} {rgb}{1.,0.65,0.}
3 \definecolor{PaleGreen} {rgb}{0.6,0.98,0.6}
4 \definecolor{Pink} {rgb}{1.,0.75,0.8}
5 \psset{gradmidpoint=0,fillstyle=gradient,gradbegin=LightCyan,gradend=white}
6 \newsstyle{TaskStyleA}{gradbegin=cyan,gradend=blue}
7 \newsstyle{TaskStyleB}{gradbegin=red,gradend=Pink}
8 \newsstyle{TaskStyleC}{gradbegin=yellow,gradend=Orange}
9 \newsstyle{TaskStyleD}{gradbegin=green,gradend=PaleGreen}
10
11 \begin{PstGanttChart}[yunit=2.5,xunit=3.5,ChartUnitIntervalName=Semaine,
12     ChartUnitBasicIntervalName=Jour,TaskUnitType=Jour,
13     TaskOutsideLabelMaxSize=14,ChartShowIntervals]{8}{43}
14 \psset{gradangle=90,TaskStyle=TaskStyleA}
15 \PstGanttTask[TaskOutsideLabel={\'Etude}]{0}{10}
16 \PstGanttTask[TaskOutsideLabel={R\'edaction dossier}]{6}{7}
17 \PstGanttTask[TaskOutsideLabel={Relecture et corrections}]{14}{2}
18 \PstGanttTask[TaskOutsideLabel={Soumission},TaskStyle=TaskStyleB]{17}{1}
19 \psset{TaskStyle=TaskStyleC}
20 \PstGanttTask[TaskOutsideLabel={R\'ealisation}]{25}{14}
21 \PstGanttTask[TaskOutsideLabel={Tests}]{35}{6}
22 \PstGanttTask[TaskOutsideLabel={V\'erification}]{39}{3}
23 \PstGanttTask[TaskOutsideLabel={Recette},TaskStyle=TaskStyleD]{42}{1}
24 \end{PstGanttChart}

```

## 2 List of all optional arguments for pst-gantt

Key	Type	Default
PstPicture	boolean	true
ChartShowIntervals	boolean	true
ChartStartInterval	ordinary	1
ChartModulo	boolean	true
ChartModuloValue	ordinary	52
TaskStyle	ordinary	TaskStyleDefault
ChartUnitIntervalName	ordinary	Week
ChartUnitBasicIntervalName	ordinary	Day
TaskUnitIntervalValue	ordinary	7
TaskUnitType	ordinary	Week
TaskOutsideLabel	ordinary	
TaskInsideLabel	ordinary	
TaskOutsideLabelMaxSize	ordinary	0

## References

- [1] Denis Girou. Présentation de PSTricks. *Cahier GUTenberg*, 16:21–70, April 1994.



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- [2] Michel Goossens, Frank Mittelbach, Sebastian Rahtz, Denis Roegel, and Herbert Voß. *The L<sup>A</sup>T<sub>E</sub>X Graphics Companion*. Addison-Wesley Publishing Company, Reading, Mass., 2007.
- [3] Nikolai G. Kollock. *PostScript richtig eingesetzt: vom Konzept zum praktischen Einsatz*. IWT, Vaterstetten, 1989.
- [4] Herbert Voß. *PSTricks – Grafik für T<sub>E</sub>X und L<sup>A</sup>T<sub>E</sub>X*. DANTE – Lehmanns, Heidelberg/Hamburg, 6. edition, 2010.
- [5] Herbert Voß. *PSTricks – Graphics and PostScript for L<sup>A</sup>T<sub>E</sub>X*. UIT, Cambridge – UK, 1. edition, 2011.
- [6] Herbert Voß. *L<sup>A</sup>T<sub>E</sub>X quick reference*. UIT, Cambridge – UK, 1. edition, 2012.
- [7] Herbert Voß. *Presentations with L<sup>A</sup>T<sub>E</sub>X*. DANTE – Lehmanns Media, Heidelberg/Berlin, 1. edition, 2012.
- [8] Eric Weisstein. *Wolfram MathWorld*. <http://mathworld.wolfram.com>, 2007.
- [9] Timothy van Zandt. *PSTricks - PostScript macros for generic T<sub>E</sub>X*. <http://www.tug.org/application/PSTricks>, 1993.
- [10] Timothy van Zandt. *multido.tex - a loop macro, that supports fixed-point addition*. <CTAN:/graphics/pstricks/generic/multido.tex>, 1997.
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- [12] Timothy van Zandt and Denis Girou. Inside PSTricks. *TUGboat*, 15:239–246, September 1994.

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