

# An Event-B Specification of WellCommented

This project is used to verify that rendering of complicated and long comments work.

<b>1</b>	<b>CONTEXT Tale</b>	<b>2</b>
1.1	STUFF . . . . .	2
1.2	AAAA BBBB CCCC DDDD EEEE FFFF GGGG HHHH IIII maa mii . . . . .	2
<b>2</b>	<b>MACHINE Journey</b>	<b>3</b>
2.1	<i>r x z</i> . . . . .	3
2.2	About( <i>y</i> ) . . . . .	3

1.1

1.2

A machine comment. A complicated comment with % # ! 4^5 x\_y More of a comment. Now its done! Some inline tex:  $\sqrt{123}$  Here I really want a newline.  $x > 1 \Rightarrow maa > 0 \vee \top \Leftrightarrow \perp \forall x. x \in \mathbb{N} \rightarrow \mathbb{N}1 \times (\mathbb{Z} \setminus \{123\})$

SEES Tale

#### VARIABLES

2.1

$x$  Fin variabel  
 $r$  En annan variabel  
 $z$  Z represents the unknown STUFF in the universe.

#### INVARIANTS

**inv1:**  $x > 0$  A comment.  
**inv2:**  $x > 0 \vee x > 0 \vee x > 0 \vee x > 3$  Helpful stuff comment with comments en  
 $\vee x > 0 \vee x > 0 \vee x > 4$  masse.  
 $\vee x > 0 \vee x > 0 \vee x > 5$   
 $\vee x > 0 \vee x > 0 \vee x > 6$   
 $\vee x > 0 \vee x > 0 \vee x > 7$   
 $\vee x > 0$   
**inv3:**  $r \in 1..99$   
The third invariant needs a lot of explanation. For example it  $5 \times \sqrt{4}$  is not good. Must exemplify better.  
**inv4:**  $x > 0 \vee x > 0 \vee x > 0 \vee x > 0 \vee x > 0 \vee x > 0 \vee x > 0 \vee x > 0 \vee x > 0 \vee x > 0 \vee x > 0 \vee x > 0 \vee x > 0 \vee x > 0$   
Another interesting comment·a lot of text indeded. Will the line break eventually?  
Another line.  
**inv5:**  $z \in \text{STUFF}$

#### EVENT INITIALISATION

##### THEN

**init1:**  $x := maa$   
**init2:**  $r := 2$   
**init3:**  $z := \text{HHHH}$

##### END

#### EVENT About

2.2

##### ANY

$y$

##### WHERE

**grd1:**  $y = 1 \mapsto 2$   $y = 1 \mapsto 2$   
**grd2:**  $\forall y. y \in \mathbb{N} \Rightarrow y > 0$  Make y non-free! %#!//xyz\\_

##### THEN

**act1:**  $x := 2$   
Comment  $x := 2$  Another  $x := 2$  Third  $x := 2$

##### END

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INITIALISATION, 3

Journey, 3

r, 3

Tale, 2, 3

x, 3

z, 3