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This document is a basic test of DiscoT<sub>E</sub>X's functionality. Tests are organized according to the order given on this page.

**1**

**2**

**3**

**4**

**5**

**6 Layout**

**7 Sectioning**

This entire document is a test that sectioning and subsectioning works. The `\paragraph` and `subparagraph` commands have yet to be implemented. To see that `\subsubsection` works,

### 7.0.1 Latin text

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sed porttitor sodales nulla, vel vulputate ligula egestas vitae. Aliquam vitae tristique sem. Aenean egestas finibus eros et viverra. Sed eget finibus ex. Cras sodales efficitur diam, id ullamcorper turpis blandit id. Vestibulum lacus erat, iaculis in sapien vitae, pellentesque condimentum massa. Curabitur sed dui lectus. Maecenas leo purus, elementum quis tempor et, volutpat quis nunc. Vestibulum placerat, ex nec viverra mollis, orci quam elementum purus, eget iaculis lorem turpis a nisi. Aliquam viverra vulputate luctus.

We can also have a subsection and then subsubsections

## 7.1 Lorem Ipsum

### 7.1.1 Second paragaph

Nulla non neque scelerisque, vestibulum velit eu, euismod tellus. Vivamus vulputate consequat leo, in sollicitudin mauris scelerisque in. Curabitur

pharetra risus ac justo feugiat, nec maximus erat mollis. Donec et consequat est. Ut rhoncus diam vitae ex vulputate tristique. Ut tempus sit amet dolor nec sodales. Cras ornare, justo a pellentesque porttitor, lectus libero tempus tellus, ac gravida velit erat a erat. Phasellus nulla metus, porttitor eu felis vel, elementum vulputate nisl. Pellentesque in gravida metus, eu dictum tellus. Sed gravida, odio eu varius aliquet, urna mi laoreet lacus, at dapibus mauris nisi ac erat. Proin eget pretium odio. Class aptent taciti sociosqu ad litora torquent per conubia nostra, per inceptos himenaeos.

### 7.1.2 Third paragraph

Suspendisse at nisi lectus. Curabitur finibus quam nunc, id tristique odio finibus nec. Curabitur ullamcorper, erat non pretium congue, purus nibh efficitur mauris, nec aliquet arcu nulla et eros. Vivamus rhoncus pharetra mollis. Fusce vitae justo egestas, ultrices sem eget, lobortis ipsum. Proin semper ligula quis elit tincidunt, ac mollis urna rutrum. Aenean metus mi, dapibus ac lectus ut, vestibulum vulputate risus. Quisque orci purus, tincidunt eget ullamcorper in, pellentesque sit amet nulla. Cras hendrerit felis in sollicitudin elementum. Maecenas varius massa vitae orci dapibus malesuada. Mauris sollicitudin lacus ante, at commodo nunc ullamcorper a. Sed accumsan enim tempus mi sagittis, vitae laoreet mauris tincidunt. Praesent orci felis, maximus eget feugiat sed, molestie et dui.

## 8 Cross references

This section is Section 8. The previous sentence was implemented with labels and references.

## 9 Environments

### 9.1 abstract

#### Abstract

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sed porttitor sodales nulla, vel vulputate ligula egestas vitae. Aliquam vitae tristique sem. Aenean egestas finibus eros et viverra. Sed eget finibus ex. Cras sodales efficitur diam, id ullamcorper turpis blandit id. Vestibulum lacus erat, iaculis in sapien vitae, pellentesque condimentum massa.

Curabitur sed dui lectus. Maecenas leo purus, elementum quis tempor et, volutpat quis nunc. Vestibulum placerat, ex nec viverra

mollis, orci quam elementum purus, eget iaculis lorem turpis a nisi.  
Aliquam viverra vulputate luctus.

## 9.2 array

## 9.3 center

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sed porttitor sodales nulla, vel vulputate ligula egestas vitae. Aliquam vitae tristique sem. Aenean egestas finibus eros et viverra. Sed eget finibus ex. Cras sodales efficitur diam, id ullamcorper turpis blandit id. Vestibulum lacus erat, iaculis in sapien vitae, pellentesque condimentum massa. Curabitur sed dui lectus. Maecenas leo purus, elementum quis tempor et, volutpat quis nunc. Vestibulum placerat, ex nec viverra mollis, orci quam elementum purus, eget iaculis lorem turpis a nisi. Aliquam viverra vulputate luctus.

## 9.4 description

**First** First description item

**Second** Second description item

Unlabelled description item

## 9.5 display math

## 9.6 document

This entire document is a test of the *document* environment.

## 9.7 enumerate

1. First item
2. Second item
  - (a) First of second item
  - (b) Second of second item
  - (c) Third of second item
3. Third item

## 9.8 eqnarray

$$a^2 + b^2 = c^2 \tag{1}$$

$$< (a + b)^2 \tag{2}$$

$$a^2 + b^2 = c^2$$
$$< (a + b)^2$$

## 9.9 equation

$$a^2 + b^2 = c^2 \tag{3}$$

## 9.10 figure

## 9.11 filecontents

## 9.12 flushleft

## 9.13 flushright

## 9.14 itemize

- First item
- Second item
  - First of second item
  - Second of second item
  - Third of second item
- Third item

### **9.15 letter**

### **9.16 list**

### **9.17 math**

### **9.18 minipgae**

### **9.19 picture**

### **9.20 quotation**

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sed porttitor sodales nulla, vel vulputate ligula egestas vitae. Aliquam vitae tristique sem. Aenean egestas finibus eros et viverra. Sed eget finibus ex. Cras sodales efficitur diam, id ullamcorper turpis blandit id. Vestibulum lacus erat, iaculis in sapien vitae, pellentesque condimentum massa.

Curabitur sed dui lectus. Maecenas leo purus, elementum quis tempor et, volutpat quis nunc. Vestibulum placerat, ex nec viverra mollis, orci quam elementum purus, eget iaculis lorem turpis a nisi. Aliquam viverra vulputate luctus.

### **9.21 quote**

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sed porttitor sodales nulla, vel vulputate ligula egestas vitae. Aliquam vitae tristique sem. Aenean egestas finibus eros et viverra. Sed eget finibus ex. Cras sodales efficitur diam, id ullamcorper turpis blandit id. Vestibulum lacus erat, iaculis in sapien vitae, pellentesque condimentum massa.

Curabitur sed dui lectus. Maecenas leo purus, elementum quis tempor et, volutpat quis nunc. Vestibulum placerat, ex nec viverra mollis, orci quam elementum purus, eget iaculis lorem turpis a nisi. Aliquam viverra vulputate luctus.

**9.22**   `tabbing`

**9.23**   `table`

**9.24**   `tabular`

a	b	$x^2$
this	is	sparta
1	2	3

**9.25**   `thebibliography`

**9.26**   `theorem`

**9.27**   `titlepage`

The next page is a titlepage created with the *titlepage* environment.



This document was last edited March 14, 2015.

## 9.28 verbatim

This is a verbatim environment.  
I can put \LaTeX commands in it  
and

newlines  
and they are read in exactly.

We can also do the same stuff inline with the `\verb` command.

## 9.29 verse

Roses are red  
Violets are blue  
This poem doesn't rhyme.

- 10 Line breaking
- 11 Page breaking
- 12 Footnotes
- 13 Definitions
- 14 Counters
- 15 Lengths
- 16 Making paragraphs
- 17 Math formulas
- 18 Modes
- 19 Page styles
- 20 Spaces
- 21 Boxes
- 22 Special insertions
  - 22.1 Reserved characters

The following characters are reserved and must be escaped:

`#, $, %, &, -, {, }`

## 22.2 Symbols

<code>\copyright</code>	©	<code>\dag</code> or <code>\textdagger</code>	† or ‡
<code>\ddag</code> or <code>\textdaggerdbl</code>	‡ or †	<code>\LaTeX</code>	L <sup>A</sup> T <sub>E</sub> X
<code>\dots</code> , <code>\ldots</code> , or <code>\textellipsis</code>	..., ..., or ...	<code>\lq</code>	‘
<code>\P</code> or <code>\textparagraph</code>	¶ or ¶	<code>\rq</code>	’
<code>\S</code>	§	<code>\TeX</code>	T <sub>E</sub> X
<code>\textasciicircum</code>	^	<code>\textasciitilde</code>	~
<code>\textasteriskcentered</code>	*	<code>\textbar</code>	
<code>\textbardbl</code>		<code>\textbraceleft</code>	{
<code>\textbraceright</code>	}	<code>\textbullet</code>	•
<code>\textdollar</code> or <code>\\$</code>	\$ or \$	<code>\textemdash</code>	—
<code>\textendash</code>	–	<code>\textexclamdown</code>	¡
<code>\textgreater</code>	>	<code>\textless</code>	<
<code>\textordfeminine</code>	a	<code>\textordmasculine</code>	o
<code>\textquestiondown</code>	¡	<code>\textquotedblleft</code> or ‘	“ or “
<code>\textquotedblright</code>	”	<code>\textquoteleft</code> or ‘	‘ or ‘
<code>\textquoteright</code> or ’	’ or ’	<code>\textregistered</code>	®
<code>\texttrademark</code>	™	<code>\textunderscore</code>	_
<code>\textvisiblespace</code>	␣		

Other symbols that need to be tested more thoroughly are:

## 22.3 Circled characters

A single character as an argument to `\textcircled{...}` produces “@.” If multiple characters are given, it produces “hello.” If no characters are given, it produces “○.”

## 22.4 Invisible

DiscoT<sub>E</sub>X creates ligatures between characters such as “ff” or “fi.” Placing this command between these characters separates the ligatures, as in “f|f” or “f|i.”

## 22.5 Accents

In T<sub>E</sub>X accents can be put on any character. If group is provided as an argument, only the first character should be accented.

**Grave** ÅàBbCèDèEèFfHhÌìJjKkLlMmNnÒòPpQqRrSsTtUùVvWwXxYyZz  
group

**Acute** ÁáBḄĆćDđÉéFfĦĥÍíJjKkLlMmNnÓóPpQqRrSsTtUúVvWwXxYyZz  
group

**Circumflex** ÂâBḂĈĉDḍÊêFfĦĥÎîJĵKḱLlMḿNñÔôPṑQḡRṛSṣTṭUûVvWwXxYyZz  
group

**Tilde** ÃãBḄC̃cDḍÊêFfĦĥIĩJjKḱLlMḿNñÕõPṑQḡRṛSṣTṭUûVvWwXxYyZzgroup

**Macron** ĀāBḂC̄cDḍÊêFfĦĥIiJjKḱLlMḿNñOōPṑQḡRṛSṣTṭUūVvWwXxYyZzgroup

**Breve** ǺǻBḂC̆cDḍÊêFfĦĥIiJjKḱLlMḿNñOöPṑQḡRṛSṣTṭUüVvWwXxYyZz  
group

**Dot above** ȦȧBḂĊcDḍÊêFfĦĥIiJjKḱLlMḿNñȮȯPṑQḡRṛSṣTṭUȩȪVvWwXxYyZz  
group

**Umlaut** ÄäBḂC̈cDḍÊêFfĦĥIiJjKḱLlMḿNñÖöPṑQḡRṛSṣTṭUüVvWwXxYyZz  
group

**Ring** ÅåBḂC̆cDḍÊêFfĦĥIiJjKḱLlMḿNñȮȯPṑQḡRṛSṣTṭUüVvWwXxYyZz  
group

**Double accent** ǺǻBḂC̆cDḍÊêFfĦĥIiJjKḱLlMḿNñȮȯPṑQḡRṛSṣTṭUüVvWwXxYyZz  
group

**Caron** ĀāBḂC̆cDḍÊêFfĦĥIiJjKḱLlMḿNñȮȯPṑQḡRṛSṣTṭUüVvWwXxYyZzgroup

**Dot below** ȦȧBḂĊcDḍÊêFfĦĥIiJjKḱLlMḿNñȮȯPṑQḡRṛSṣTṭUȩȪVvWwXxYyZz  
group

**Cedilla** ȦȧBḂC̆cDḍÊêFfĦĥIiJjKḱLlMḿNñȮȯPṑQḡRṛSṣTṭUüVvWwXxYyZz  
group

**Bar under** ȦȧBḂĊcDḍÊêFfĦĥIiJjKḱLlMḿNñȮȯPṑQḡRṛSṣTṭUȩȪVvWwXxYyZz  
group

## 22.6 Non-english characters

å, Å, æ, Æ, ij, IJ, ł, Ł, ø, Ø, œ, Œ, ß, SS