1. This is a sample block of text designed to test \index, the layout of the index (theindex environment) and any indexing application, such as makeindex, or xindy. This text is just filler (produced using \testidx provided by the testidx package) to pad out the document with instances of \index interspersed throughout. You can use it, for example, to test an index-ing package, such as makeidx. or imakeidx. or to test a makeindex. style file or xindy. Much can be accessed using the textoc. application. This block starts a range that is closed in block 16.

s. Don't forget there's also a 'number group, so let's have some numbers. *The Hitchhiker's Guide to the Galaxy*. has of course propelled the number 42<sup>o</sup> to stardom, as the answer to life, the universe and everything. We usually deal in base 10<sup>o</sup>, but sometimes base 16<sup>o</sup> is useful to programmers, and computers prefer base 2<sup>o</sup> (and 2<sup>o</sup> is the only even prime number). A century in cricket means 100<sup>o</sup> runs, and in the calendar 100<sup>o</sup> years. If you're using xindy., you can provide a numbers group by adding the following to your .xdy module:

## (define-letter-group "Numbers" :prefixes ("0" "1" "2" "3" "4" "5" "6" "7" "8" "9") :before "A")

Whilst we're on the subject of numbers, let's try out some equations.

$$\cdot E = mc^2 \tag{1}$$

This document doesn't load the amsmath. package, so let's try out the eqnarray. environment:

$$f(\vec{x}) = \alpha \cdot \sum_{i}^{n} x_{i} + \beta \sum_{i}^{n} x_{i}^{2} + \gamma$$
(2)

$$\frac{\partial f}{\partial x_i} = \alpha + 2\beta x_j \tag{3}$$

(Note how the subscripts and superscripts can be affected by material inserted between the symbol and the sub- and superscripts.) If you load the amsmath. package, we'll test the align environment instead. Incidentally, that's just a regular partial derivative symbol  $\cdot \partial$ . Not to be confused with the spin-weighted partial derivative [you need the amssymb. package for that symbol]. Now I've been a bit fancy here and inserted > in front of the sort key so I can get xindy. to create a special group for the maths symbols. Here's the code you can add to your .xdy file to implement it:

## (define-letter-group "Maths" :prefixes (">") :before "Numbers")

I've done something similar with the marker s where I've used < as the prefix.

10. Now this is going to be hard to believe — in fact I'm totally gobsmacked and utterly astounded — but I've discovered that we're still missing some  $\cdot$  letter groups, and I've run out of anything quaint to say, so I'm going to have to

 $^{\rm padding}$ , see also filler

yatter for a while longer, which will probably make you yawn and fall asleep. What shall we talk about? My quirky badinage is about to expire. How about a story? Here's one I made up for my friend Paulo Cereda, in TFX.SE chat because he likes ducks and is the creator of **arara**. So, are you sitting comfortably? Then let's begin. By the way, before I forget, it's called Sir Quackalot and the Golden Arara, and is the first story in The Adventures of Sir Quackalot. It's a tale of adventure and derring-do. The hero of the story is Sir Quackalot, in case you can't tell from the title. Once upon a time, a long time ago in a far away land, there lived a knight. He was handsome, he was bold, he was brave. He was — a duck. His name was Sir Quackalot. One day the Fairy Goose. appeared. "Brave knight." she said. "A terrible plight has fallen on the land. The evil OgRe has stolen the Golden Arara. Only you can save it." (That's a reference to  $T_{EX}$ 's output routine, if you missed it.) "It will be a perilous quest, but find the Mighty Helm of Knuth and the Legendary Sword xor to aid you." (Ask David Carlisle, about the xor reference.)

11. So Sir Quackalot. set out on his quest. (This is the continuation. from the previous block., for any newcomers. who have just turned up.) He soon arrived at the Bog of Eternal Glossaries. (that's a reference to my glossaries. package, and it's also a nod. to the Bog of Eternal Stench. in *Labyrinth*.), in the centre. (or center. for those of you .across the pond) of which was suspended the Mighty Helm of Knuth. but Sir Quackalot. was learned in the lore. of installing Perl. and was able to leap upon the magical. raft. makeglossaries. and steer his way through the external. indexing applications and their many arguments. (That's supposed to be a pun., but it's .bad form to explain the joke., and it wasn't even particularly witty. Incidentally, Joseph Wright. makes a cameo. at this point with the exclamation. "fetchez la vache!" but you'll have to ask Paulo Cereda. what that's all about. It wouldn't surprise me if it had something to do with .Monty Python.)

12. Anyway, where were we? Oh, yes. He (that's Sir Quackalot we're talking about, if you've only just joined us) snatched up the Mighty Helm of Knuth and escaped from the perilous bog. Soon he came to the Dread Vale of the Editors, guarded at either end by the ever-quarrelling leviathans <code>Emacs</code> and <code>Vi</code>. As he approached the vale, Emacs uttered the magic incantation that sent forth the butterflies of chaos. (I know "doom" is more appropriate but, as is common knowledge, chaos is a butterfly motif.)

13. But Sir Quackalot, was protected by the Mighty Helm of Knuth and raced past into the vale, where he found the Legendary Sword xor in the centre of the great longtable. (Ooh, I've started a sentence with a conjunction. How naughty is that?) With a great leap and a bound, Sir Quackalot, plucked out the sword and headed for the far end of the vale. Up pounced Vi, and belched forth a myriad of clones that bore down on Sir Quackalot. But, brandishing the sword xor, Sir Quackalot, sliced them down. (There's some repetition there, but hopefully no one's noticed. There's even more coming up in the next block.)

14. Sir Quackalot, escaped from the Dread Vale of the Editors, and set off

up the path that led to the evil OgRe's lair. As Sir Quackalot, approached, there was a fearful roar, and the OgRe pounced on Sir Quackalot. The brave knight raised his powerful sword xor and brought it down on the OgRe, destroying him. Sir Quackalot, rescued the Golden Arara, and the land, was once more restored to peace and harmony and paragraph's were able to span page breaks without fear. The End. Don't miss the next thrilling adventure Sir Quackalot and the Hyper Lake of Doom. where our seaborne. intrepid hero, meets a quixotic seal with a zither (a zealous fan of *The Third Man*), a youthful ·· sea lion with a magic · yo-yo, and a wily · wombat · warrior · with a laser-guided ·· sealant gun. Can they defeat the villainous ·, zany · zoologist · sailing a xebec  $\cdot$  across the sea  $\cdot$  bearing canisters of xenon  $\cdot$ , xylem  $\cdot$  and xylene? Oh, zounds·! He's ashore wearing a ·zoot suit and smoking a zucchini whilst playing a xylophone. As one ·anonymous reviewer said, it's as exhilarating · as watching a yuppie eating a vule log soaked in voghurt. Hmm, yummy — or yuck, depending on your tastes. Don't forget to check you have some chalk so we can write ddisgynedig<sup>•</sup> and ddyrchafedig<sup>•</sup> in Nghaerdydd<sup>•</sup> (over in Nghymru<sup>•</sup>) because I want a few more words with digraph's, and then we can take a flotograff. of Ffestiniog.

16. This is the final block of dummy text provided by the testidx package. This block contains the close of a range that was started in block 1. Fun, wasn't it?

 $\hat{}hero \triangleright intrepid,$ see intrepid hero

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