Using the LBL Network 'Whiteboard'

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February 28, 1993

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Getting started

- Start `wb` from `sd` or manually via:

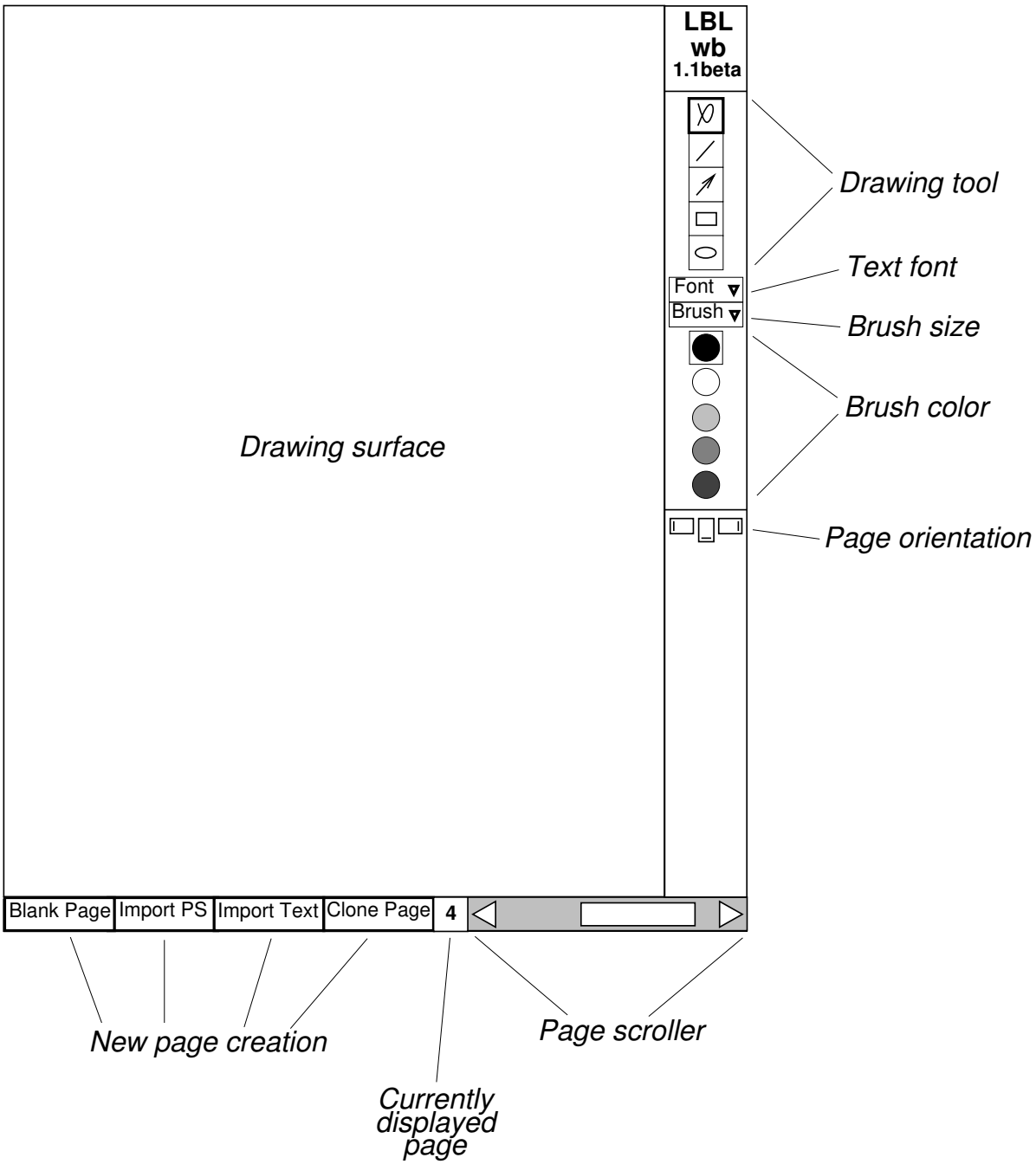
```
wb [-t ttl] [-N username]
   [-C confname] [-p|-l]
   [address][/port]
```

- Exit `wb` by typing **^C** (control-C) in the drawing window.

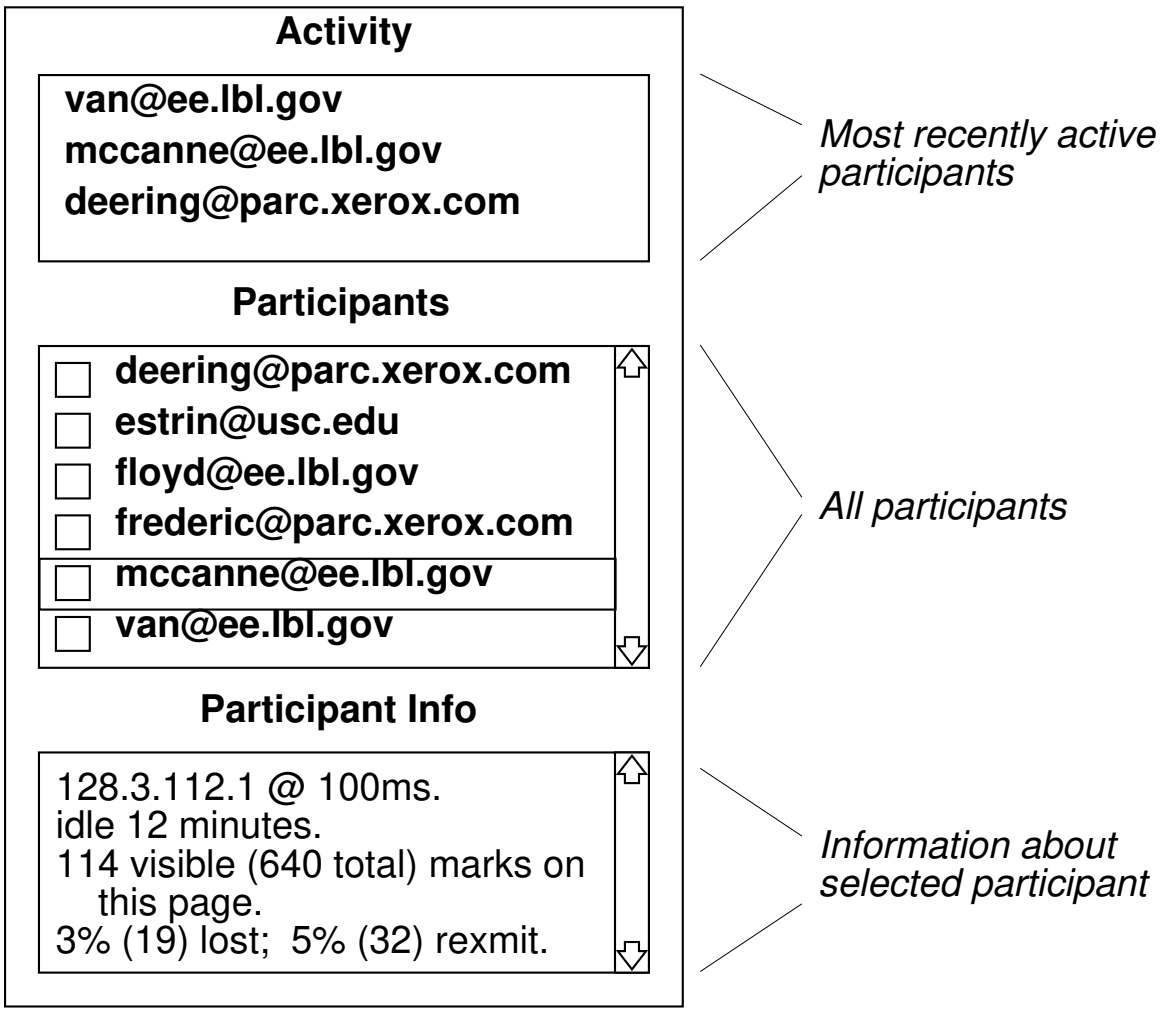
- Hold down left mouse button to draw.

- Click right mouse button to delete the last thing you drew.

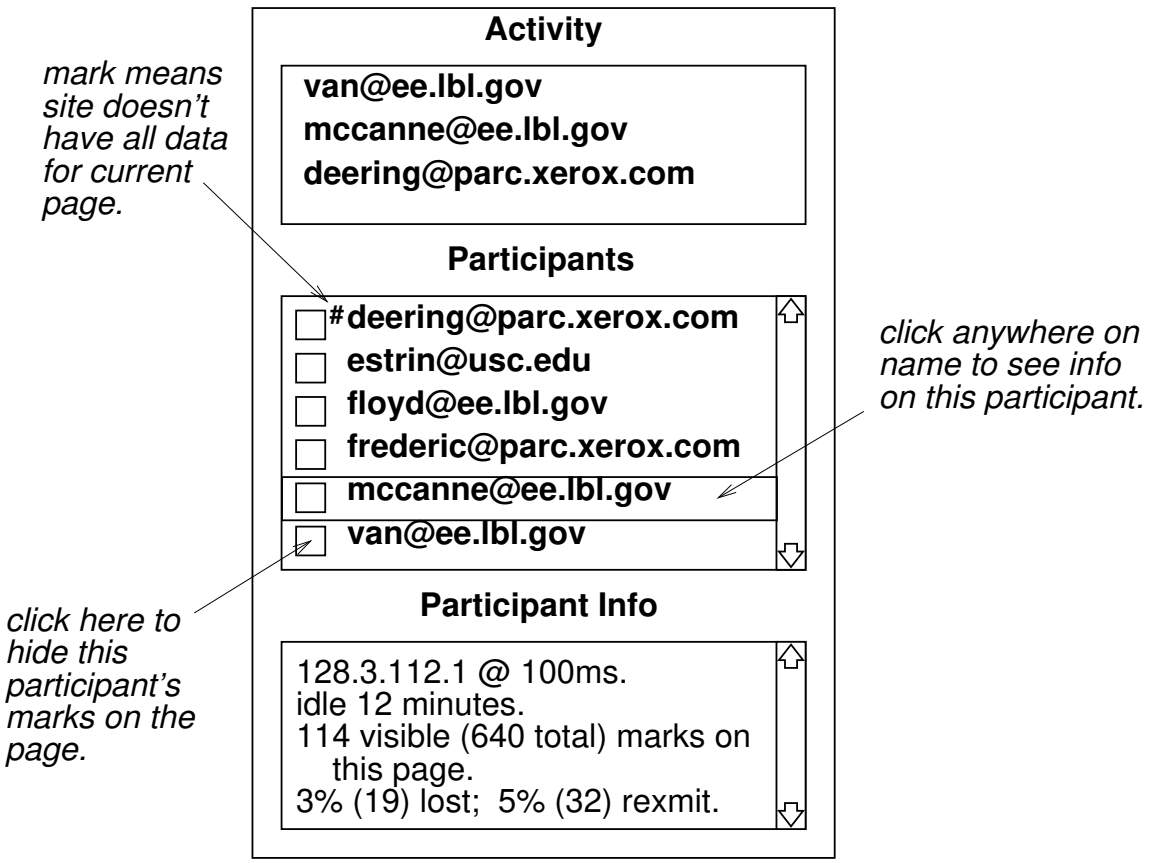
The Whiteboard Window



Participant Information Window

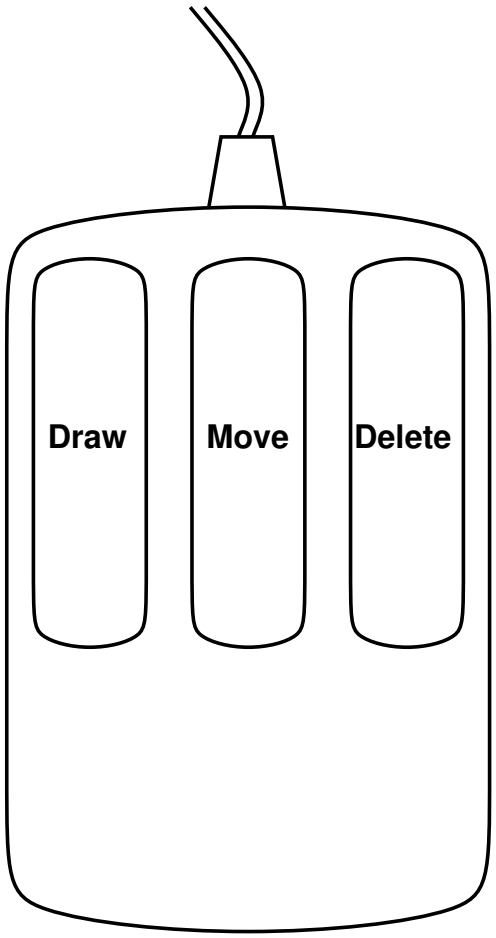


Participant Information Window (cont.)

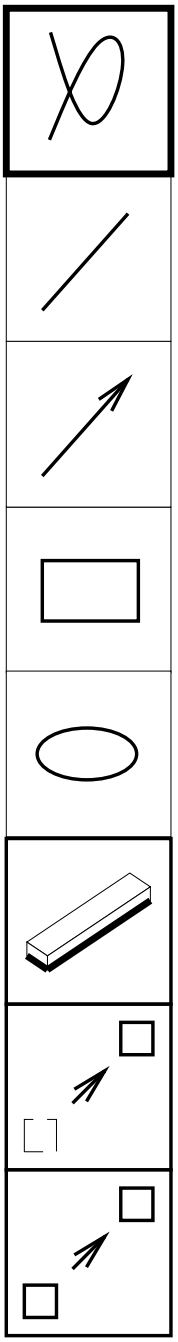


Mouse Button Actions

	Left	Middle	Right
Normal	Draw	Move	Delete
Shifted	Straight Line	Duplicate	Undelete
Control	Paste text	Paste text	Paste text



Drawing Tools



Freestyle lines

Straight lines

Arrows

Rectangles

Ellipses

Eraser

Move something

Copy something

Drawing Tools (notes)

- Any tool can be assigned to the left and middle mouse buttons (slide 7 shows the default assignments). To assign a tool to a mouse button, use that button to click on the tool.

  The right button is dedicated to erase/unerase and can't be reassigned. But the eraser can also be assigned to the left or middle buttons (so wb can be used on a machine with a pen or a one button mouse).

- The eraser tool works two different ways: If you just click and release the button without moving the mouse, whatever you most recently drew is erased. If you hold down the button and move the mouse, everything of yours that the eraser touches is erased.

Keyboard Input

To type in the window:

- left-click where you want the string to start (a dot will appear).

- start typing (the dot will disappear and be replaced by your text).

- **^H** (backspace) or DEL (rubout) will delete characters, carriage return will start a new line.

Keyboard Input (cont.)

Special characters:

^C Exit whiteboard

^L Redraw screen

Hints

Other participants can't see your mouse cursor. If you want to point at something, make a mark on the page. E.g., underline it, circle it, draw an arrow, etc.

When you've made your point *erase the mark* by clicking the right mouse button.

> Note that per-participant cursors were deliberately left out of wb: A lot of human factors research shows they don't work well. See the wb design document for discussion and references.

Hints (cont.)

When the discussion starts down a new track, create a new page for it (via the **Blank Page** or **Clone Page** buttons) rather than erasing everything on the current page.

Making new pages is easier and faster and the old pages remain easily accessible if you want to refer or return to them.

Hints (cont.)

Wb's drawing capabilities are limited. It is intended to be a shared whiteboard, not a general purpose drawing tool.

If possible, prepare drawings in advance using some PostScript-capable drawing tool (e.g., idraw, Adobe Illustrator, Aldus Freehand, MacDraw, etc.) then import those PostScript files into wb.

Hints (cont.)

By default when someone else puts marks on a new page, your display automatically switches to that page. If you want to temporarily freeze your display on the page you're looking at, click on the page number button next to the scroll bar. Click again to unfreeze.