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Administrivia

- Reminder: Homework 5 was due last week. Accepted through 5pm today without penalty. Homework 6 due today, Homework 7 Monday.
- Sample solution for Homework 2 on Web.
- Midterm grades for registrar based on Homework 1 and (conservative) estimates for Homeworks 2 through 4. Summary of grade information coming by e-mail if/when I get closer to caught up.

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More About vim

- vim has many, many useful features. Documentation is extensive but (IMO) not as well-organized as it might be. If you type `:help` followed by *keyword* and hit tab repeatedly, you get a list of help topics related to *keyword*.
- So, today I'll talk more about features.
- Remember that customizations go in a file `.vimrc` (`.gvimrc` for `gvim`).

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Multiple Windows in vim

- To get multiple windows, `:split`.
- Different windows can show different parts of the same file, or different files. To get a different file in one of the windows, `:edit`.
- Switch to other window with `control-W control-W`.
- Copy/cut and paste text between windows with normal commands (as described in notes for 10/05).
- To get the full story, `:help windows`.
- And don't forget `vimdiff`!

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Moving Around in vim

- More ways to move around in vim that most people probably remember! `:help cursor-motions` for the full story.
- Page up and down with page up/down keys, or `control-F` and `control-B`. `gg` to go to start, `G` to go to end.
- Search (`/`) can be useful.
- `:n` to go to line n ; `m%` to go to the spot m percent of the way into the file.
- `w`, `b` to move one "word" forward, backward. Parentheses and curly brackets move by sentences and paragraphs respectively.
- All of these combine with commands to copy, cut, etc. — position cursor at the start of a region, type a command (e.g., `y` to copy/yank), type a cursor-motion command.

vim and Colors / Syntax Highlighting

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- vim has some predefined “colorschemes”.
- `:colorscheme name` to switch to a different one. What’s available? Type `:colorscheme` followed by a space, then hit tab repeatedly to cycle through a list of choices.
- Syntax highlighting should be on by default. If not, `:syntax on` should set it on.

vim and Automatic Indenting

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- vim can automatically indent code. See configuration files on “sample programs” page ([here](#)) for how to set up.
- `=` command reindents — `==` to do one line, combine with visual mode or cursor-motion commands to do more (e.g., `gg=G` to do whole file).
- `gq` command reflows paragraphs, should work properly on comments.

Other Useful vim Features

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- Search and replace — can either use `:s` command (including regular expressions), or search with `/` (repeat with `n`), change with `cw` (repeat with `.`).
- Record macros (`:help repeat.txt`). Also facilities for remapping keys, defining abbreviations, scripting.
- Adding plugins — `:help plugin`.
- <http://www.vim.org> has many interesting-looking tips, tricks, scripts, etc.

Minute Essay

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- How is the pace/difficulty of the homework?