The power of regular expressions

- **Interdisciplinary:**
  - Music and Compsci

  (for Compsci 108 final project)

  The final product is so much more than we had hoped for though it was something that we aimed for from the beginning.

  Our investment into a huge and meticulous design process was a huge factor in making later progress. 35000+ lines of code / design / documentation gave us a project we were all very happy and proud to be a part of.

- **Who is Ge Wang?**
- http://www.youtube.com/watch?v=ADEHmkL3HBg

Grammars for fun and recursion

- http://en.wikipedia.org/wiki/SCIgen

- http://www.elsewhere.org/pomo/

- http://www-cs-faculty.stanford.edu/~zelenski/rsg/

- I need an extension because <plea>.
- <plea>::
  - <dubious-excuse>,
  - <dubious-excuse> and <plea>

Sierpinski Gasket

- http://en.wikipedia.org/wiki/Sierpinski_triangle
- How to think of creating it?
  - Remove central triangle, repeat recursively
  - Make three half-sized triangles, join, repeat
  - Chaos Game: completely at random!

- See links to L-system generation
  - http://en.wikipedia.org/wiki/L-system#Example_6:_Sierpinski_triangle
  - Uses grammar!

Koch Snowflake