

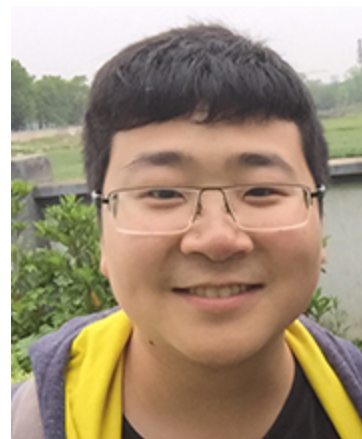
Pattern Recognition

Course Homepage: [https://github.com/yangyanli/Course PR 17](https://github.com/yangyanli/Course_PR_17)

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Teaching, Projects, Exams...

- Teaching
 - More on the principles than the math
 - 32 classes
- Projects
 - 3 small ones + 1 big one + presentations
 - 32 classes
- Exam
 - Take it easy...
- No sign up required

What is a Pattern?

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visionary jerked

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Text in the box:

visionary jerked|

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原始素材	衍生形态
^{hóu} 好啊	吼（啊） / 吼蛙 / 猴（啊） / 猴蛙
当然啦	裆燃啦
见着风，是得雨	见（听）风就是雨 / 见（听）风是雨
^{yìn diǎn} 钦定 / 钦点	硬点
无可奉告	5可奉告
^{zī cí} 你问我支持不支持	咨词 滋磁不滋磁
^{xué xī} 你们还要学习一个	
非常熟悉西方的这一套的value	非常熟悉西方的这一套理论
我是身经百战，见得多了	
西方的哪一个国家我没去过	
美国的华莱士比你们不知道高到哪里去了，我跟他谈笑风生	XX比你不知道高到哪里去了
^{zī sī} 媒体还是要提高自己的知识水平	提高姿势水平
^{sīk1 dak1 m4 sīk1 dak1 aa3} 识得唔识得啊	
^{zuō jī} 我也为你们着急啊，真的	我为你们捉鸡
你们有一个好，全世界跑到什么地方，你们比其他的西方记者跑得还快	（某事物）跑得比香港记者快
<u>too young, too simple</u> , sometimes naïve	图样图森破，上台拿衣服
我今天是作为一个长者来跟你们讲的	长者



What is a Pattern?

What is the opposite of pattern?

“A pattern is the opposite of a chaos;
it is an entity vaguely defined, that
could be given a name.”

-Satoshi Watanabe

What is a Pattern Recognition?

“The real power of human thinking is based on recognizing patterns. The better computers get at **pattern recognition**, the more humanlike they will become”.

-Ray Kurzweil, NY Times, Nov 24, 2003

Pattern recognition examples?

Is it hard?



*Manned lunar mission,
NASA Apollo Project
1969*



*Cat detection from Youtube Videos,
Google Brain
2012*

Why it is so hard?