## Reverse Engineering Chinese Censorship<sup>1</sup>

#### Gary King<sup>2</sup>

Institute for Quantitative Social Science Harvard University

(Talk at Wesleyan University, 3/6/2014)

<sup>1</sup>Based on joint work with Jennifer Pan and Molly Roberts <sup>2</sup>GaryKing.org • An Observational Study:

How Censorship in China Allows Government Criticism but Silences Collective Expression (American Political Science Review, May 2013)

• Experimental and Participatory Studies:

A Randomized Experimental Study of Censorship in China

Copies at GaryKing.org

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Either or both could be right or wrong.

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#### Benefit

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# Theories of the Goal of CensorshipBenefitCostImage: Stop criticism of the state Wrong?

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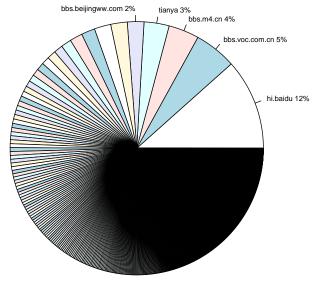
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(They also censor 2 other smaller categories we'll talk about)

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(Plus 59% from Sina Blog)

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  - Use computer-assisted methods of text analysis (some existing, some new, all adapted to Chinese)

## Censorship is not Ambiguous: Example Error Page

设为首页 收藏本站				切换到宽板	
金羊社区	bbs.ycwb.com	A 用QQ株号登录 只當一步,快速开始	用户名 *	<ul> <li>自动登录 找回密码</li> <li>登录 注册</li> </ul>	
首页 论坛	博客 家園 排行榜			快捷导航 -	
〇、 请输入搜索内容		帖子 搜索 曲都	1: 谷俊山寨 经适房 征地	1 狼爸教育 国土局 珠江啤酒 拆迁	
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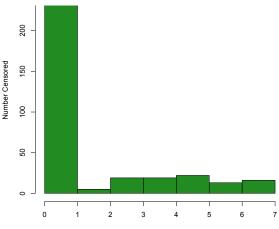
## Censorship is not Ambiguous: BBS Error Page



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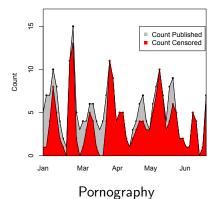
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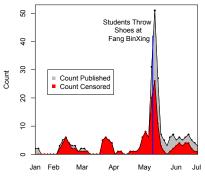


Days After Post Was Written

## For 2 Unusual Topics: Constant Censorship Effort

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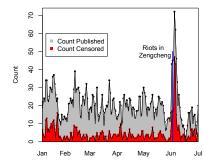




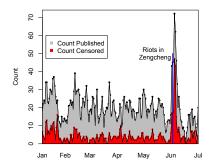
Criticism of the Censors

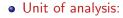
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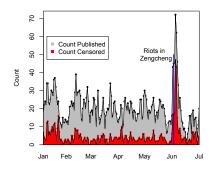


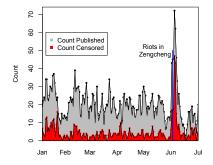
• Unit of analysis:





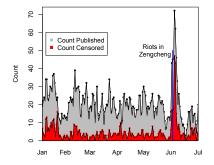
volume burst



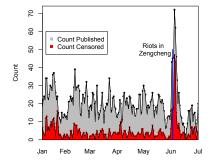


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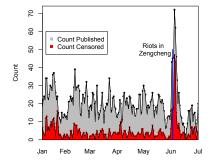
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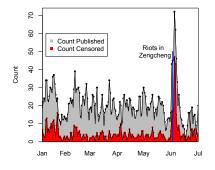
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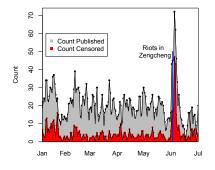
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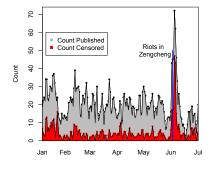
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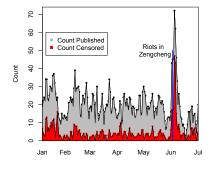
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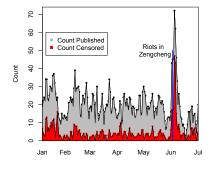
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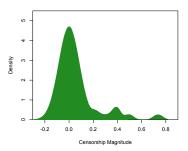
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Event classification (each category can be +, -, or neutral comments about the state)

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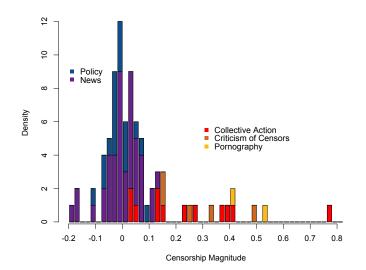
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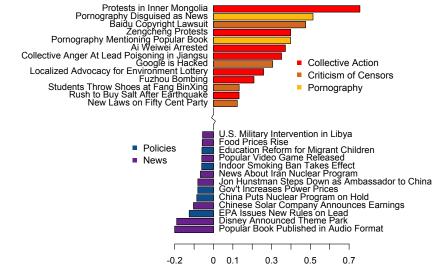
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# What Types of Events Are Censored?

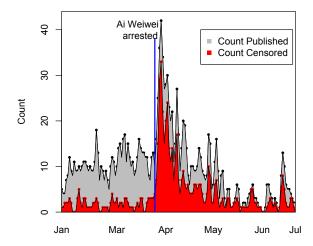


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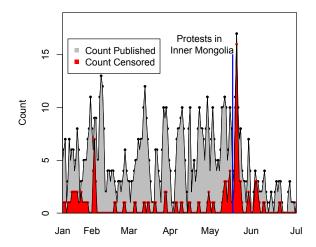


Censorship Magnitude

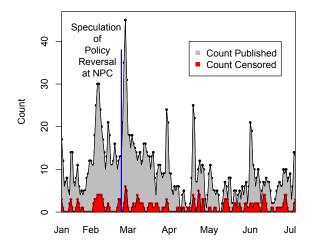
## Censoring Collective Action: Ai Weiwei's Arrest



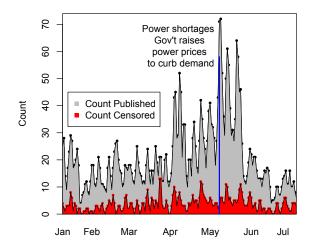
## Censoring Collective Action: Protests in Inner Mongolia



#### Low Censorship on One Child Policy



#### Low Censorship on News: Power Prices



We adapted "ReadMe" (Hopkins-King) methodology to the content of censored posts in Chinese

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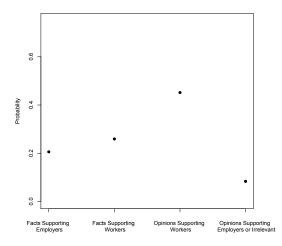
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$$P(Censored | Category) = \frac{P(Category | Censored)P(Censored)}{P(Category)}$$

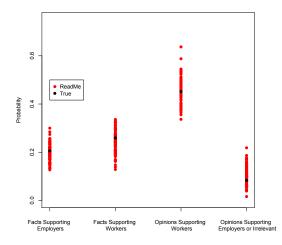
## "ReadMe" Algorithm Validated in Chinese

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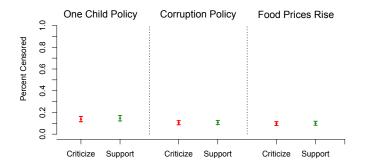


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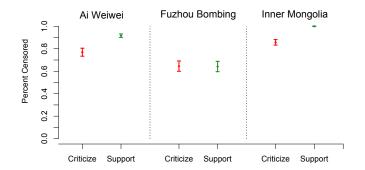
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Participatory Study (for descriptive inferences)

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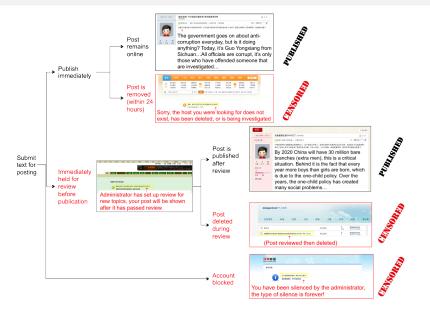
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  - Bought URL; contracted with firms for servers & software; posted and censored ourselves

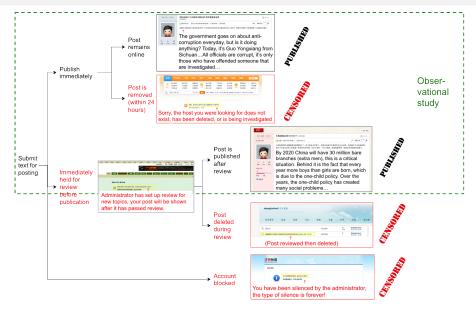
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  - Current method of learning how they censor: ask (carefully!)
  - Our goal: change our sources' incentives
  - Procedure: create our own social media website in China
  - Bought URL; contracted with firms for servers & software; posted and censored ourselves
  - To learn: we tried every software option, read the documentation, and called customer support(!)

## Mechanisms of Censorship

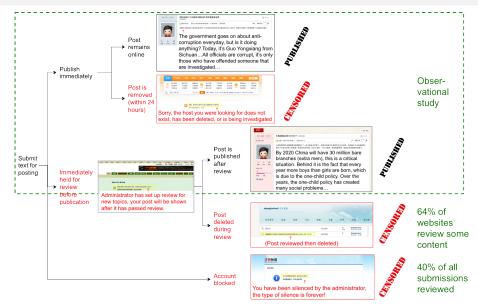
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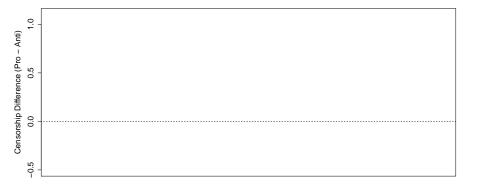


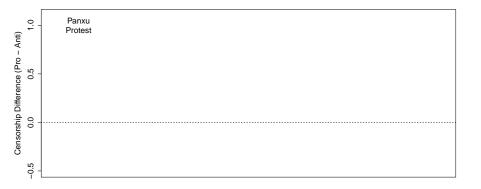
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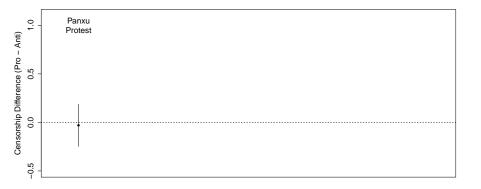


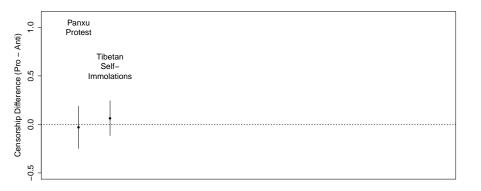
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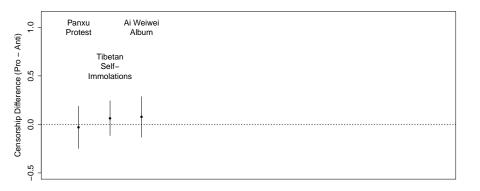


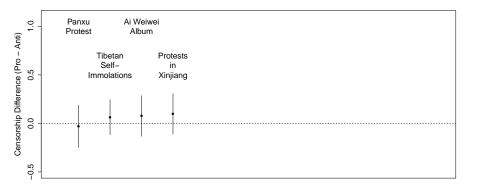


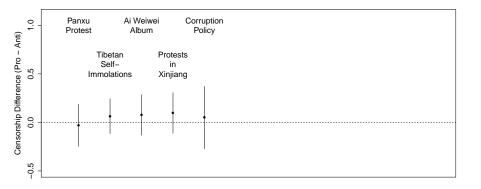


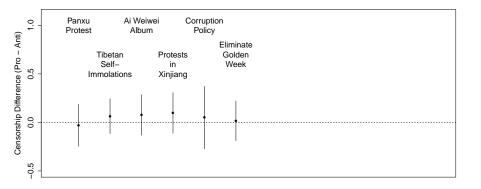


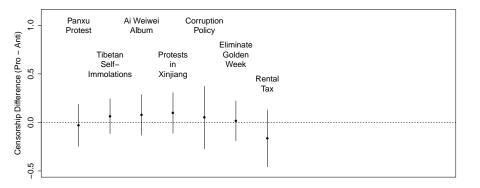


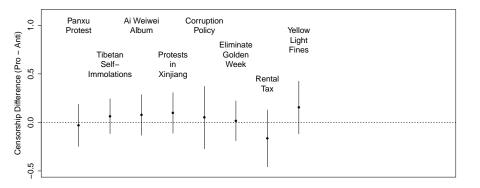


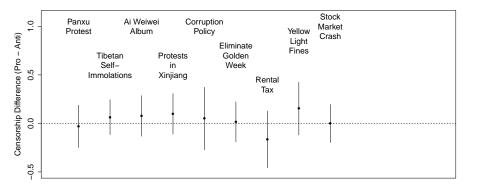


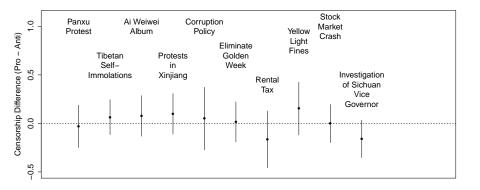


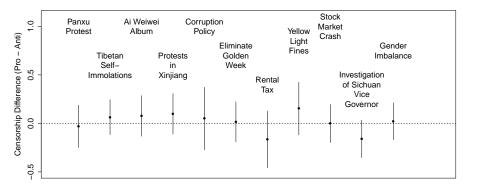


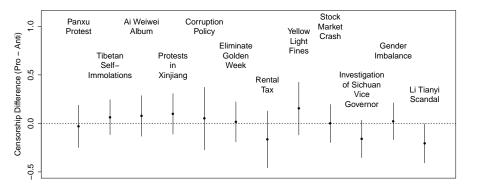


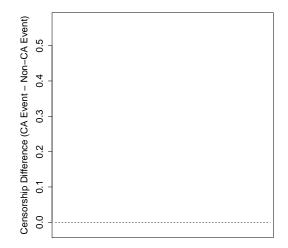


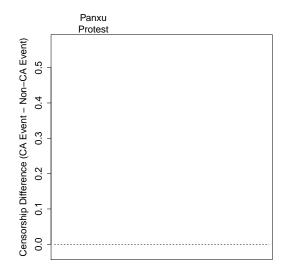


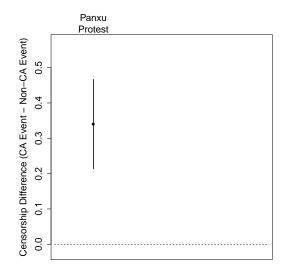


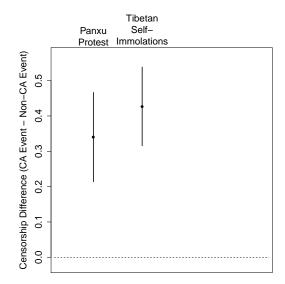


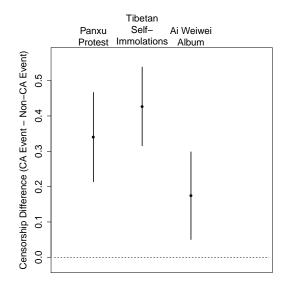


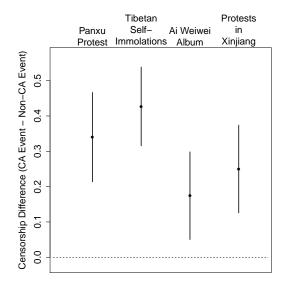


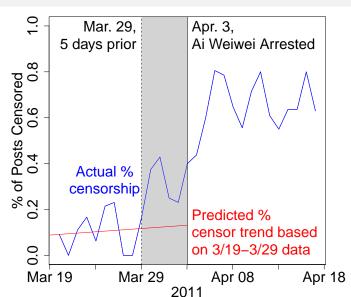


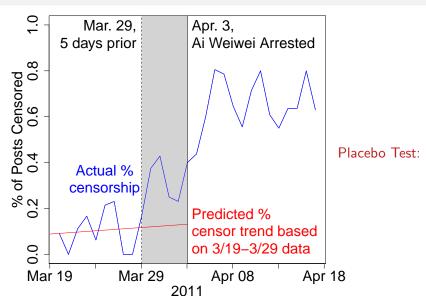




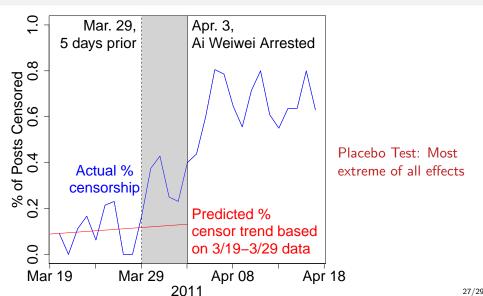








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• Chinese people's speech: Individually Free, Collectively in Chains

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- The Chinese Censorship Program:

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  - Reveals information about state action when traditional media is silent
  - Possibly applicable to other countries

#### For more information

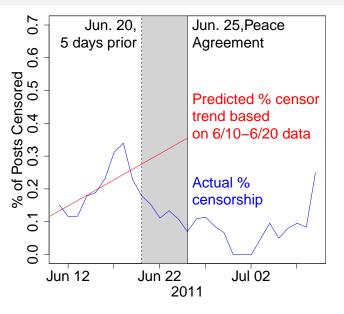


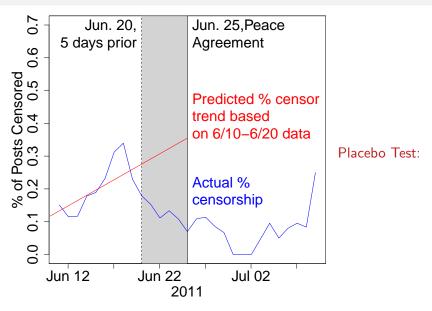
#### ${\sf GaryKing.org}$

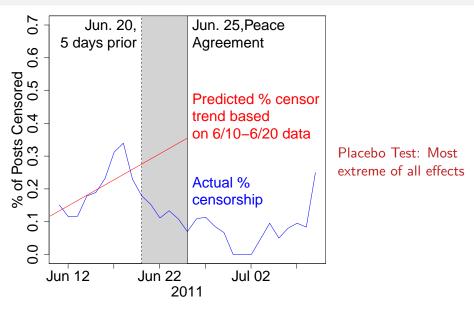
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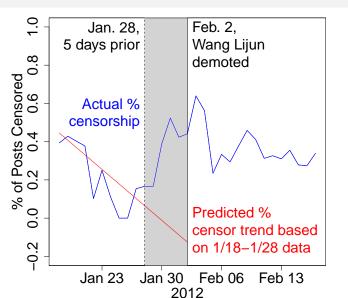
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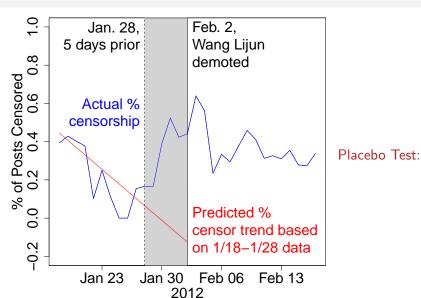
## Appendix



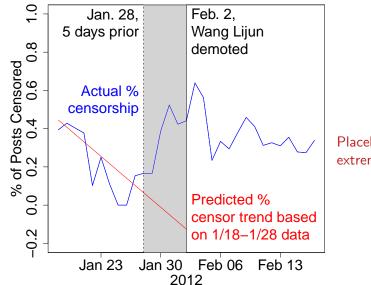








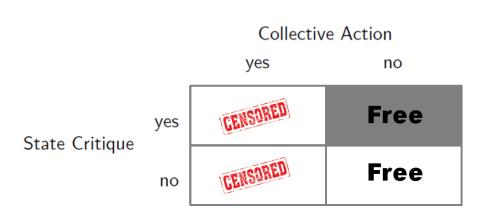
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Placebo Test: Most extreme of all effects

# Uncensored Posts (w/o Collective Action Potential) Critical of the State

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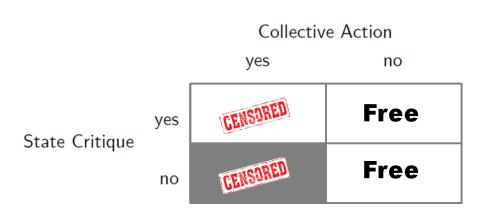
## Uncensored Posts (w/o Collective Action Potential) Critical of the State

This is a city government [Yulin City, Shaanxi] that treats life with contempt, this is government officials run amuck, a city government without justice, a city government that delights in that which is vulgar, a place where officials all have mistresses, a city government that is shameless with greed, a government that trades dignity for power, a government without humanity, a government that has no limits on immorality, a government that goes back on its word, a government that treats kindness with ingratitude, a government that cares nothing for posterity...

这是一个漠视生命的市政府[陕西省榆林 市]、一个官员横行的市政府、一个没有 公正的市政府,一个低级趣味的市政府, 一个包二奶的市政府,一个为钱不要脸的 市政府,一个为个权不要人格的市政府, 一个没有血性的市政府,一个没有道德低 线的市政府,一个出尔反尔的市政府,一 个忘恩负义的市政府,一个不要子孙后代 的市政府,一个什么怪事都出的市政府, 一个什么的市政府,只要你想到的就有…

## Censored Post (with Collective Action Potential) Supporting the State

## Censored Post (with Collective Action Potential) Supporting the State



## Censored Post (with Collective Action Potential) Supporting the State

The bombing led not only to the tragedy of his death but the death of many government workers. Even if we can verify what Qian Mingqi said on Weibo that the building demolition caused a great deal of personal damage, we should still condemn his extreme act of retribution.... The government has continually put forth measures and laws to protect the interests of citizens in building demolition. And the media has called attention to the plight of those experiencing housing demolition. The rate at which compensation for housing demolition has increased exceeds inflation. In many places, this compensation can change the fate of an entire family.

爆炸案造成他本人和多名政府工作人 员死伤的悲剧,即使钱明奇在微博里 所称拆迁造成的个人损失是属实的, 我们也应谴责他的极端报复行为.... 政府在连续出台保护被拆迁者利益的 政策法规,媒体也在为公平对待被拆 迁者大声疾呼,各地拆迁补偿款的上 升速度,大多高于商品房售价上升的 速度,在不少地方,补偿款已经足以 改变一个家庭的命运。