

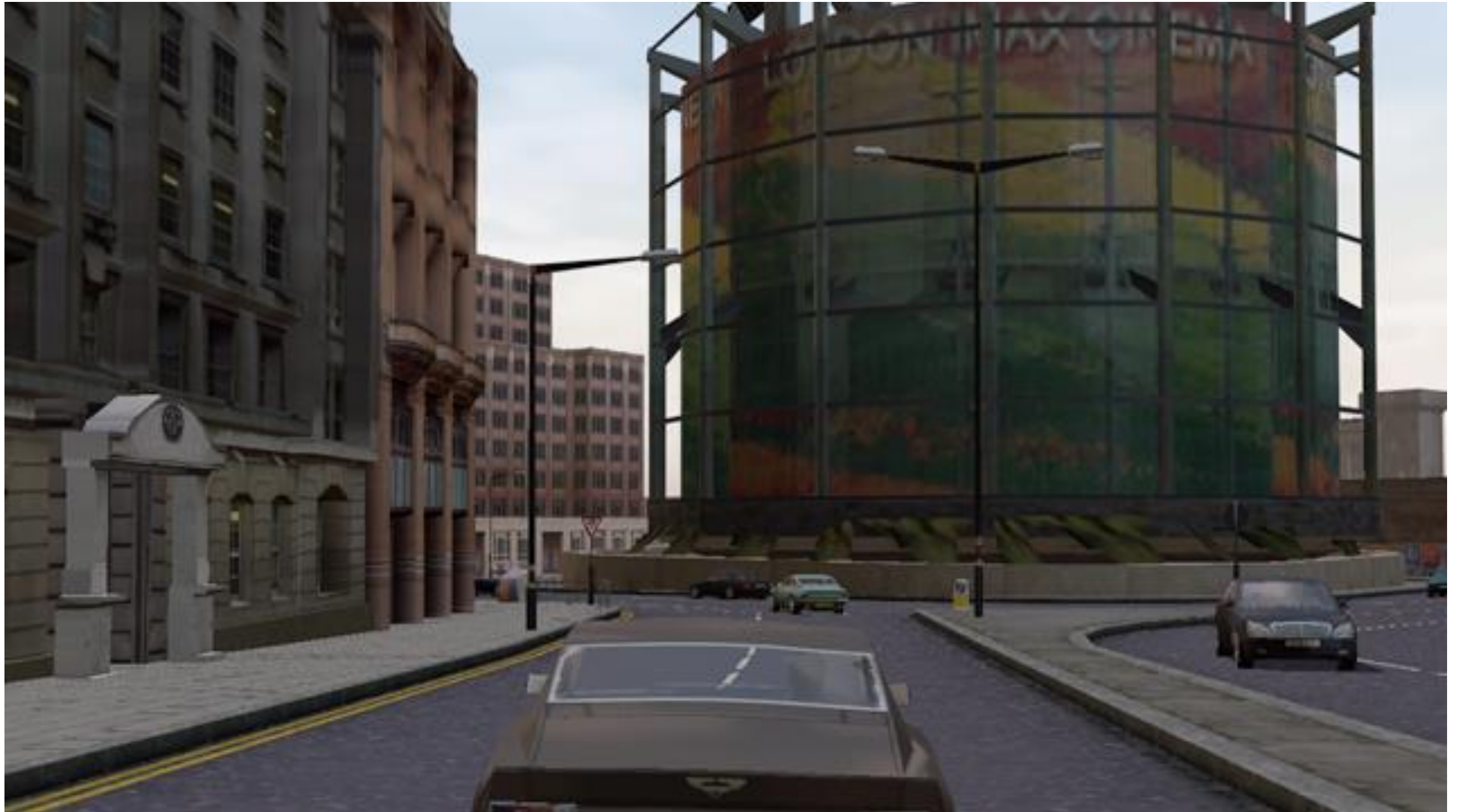
# Quelques réflexions (impertinentes) à propos des jumeaux numériques

Thierry Joliveau

Université de Saint-Etienne

UMR CNRS Environnement-Ville-Société

[thierry.joliveau@univ-st-etienne.fr](mailto:thierry.joliveau@univ-st-etienne.fr)



The Getaway 2002




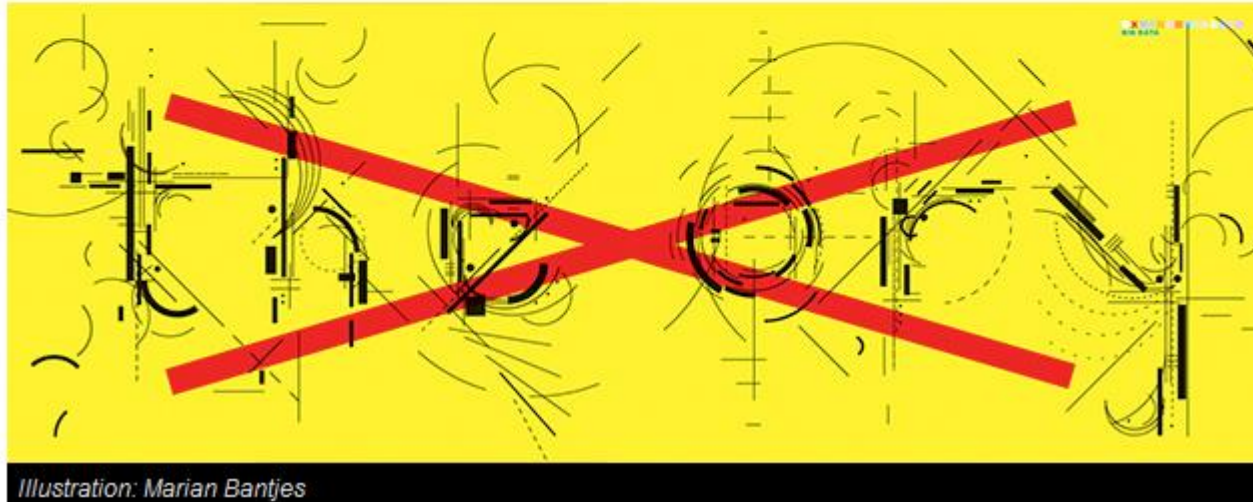
Great Theft Auto IV 2008



Driver San Francisco 2010

## The End of Theory: The Data Deluge Makes the Scientific Method Obsolete

By Chris Anderson  06.23.08



*Illustration: Marian Bantjes*

“All models are wrong, but some are useful”. George Box (1978)

“All models are wrong, and increasingly you can succeed without them.” Peter Norvig, Google's research director (2008)

[http://archive.wired.com/science/discoveries/magazine/16-07/pb\\_theory](http://archive.wired.com/science/discoveries/magazine/16-07/pb_theory)

SCIENCE  
OUVERTE  
seuil

$$\left( \varepsilon : \text{personne} \frac{7}{\pi} + \text{personne} \right) \times \frac{x}{4} \text{personne} \pi^{-1} =$$

$$+ \sqrt{x} \times (\text{personne} + \frac{3}{10} + \text{personne} \text{ maison})$$

PABLO JENSEN

# Pourquoi la société ne se laisse pas mettre en équations

$$N \times (\text{personne} \text{ homme} \text{ femme}) = \infty^0$$

$$\sqrt{x} + \sqrt{i} \times (\text{personne}) + \frac{2}{10} \text{ personne} \text{ maison}$$