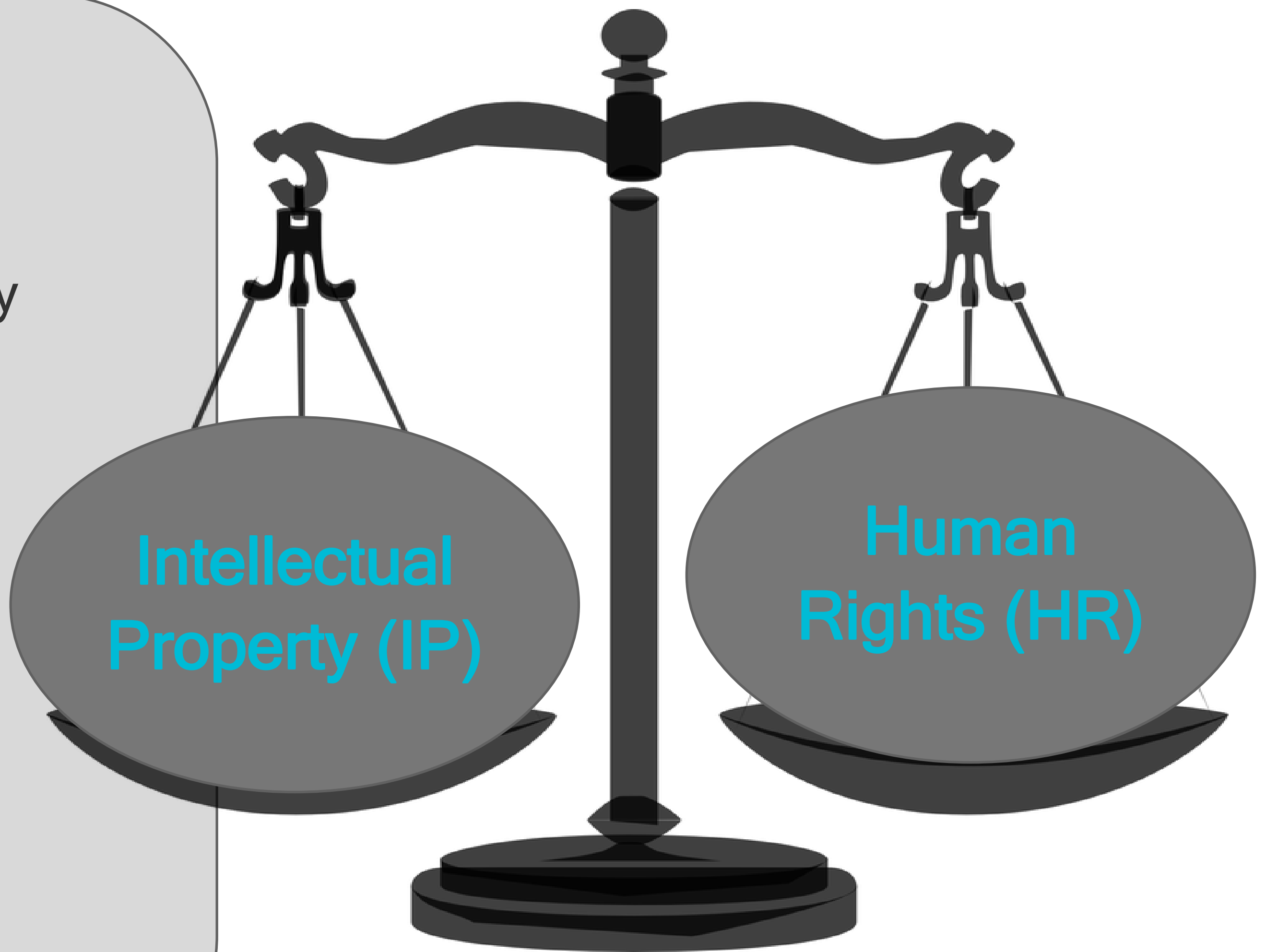# Natural Language Processing in Law
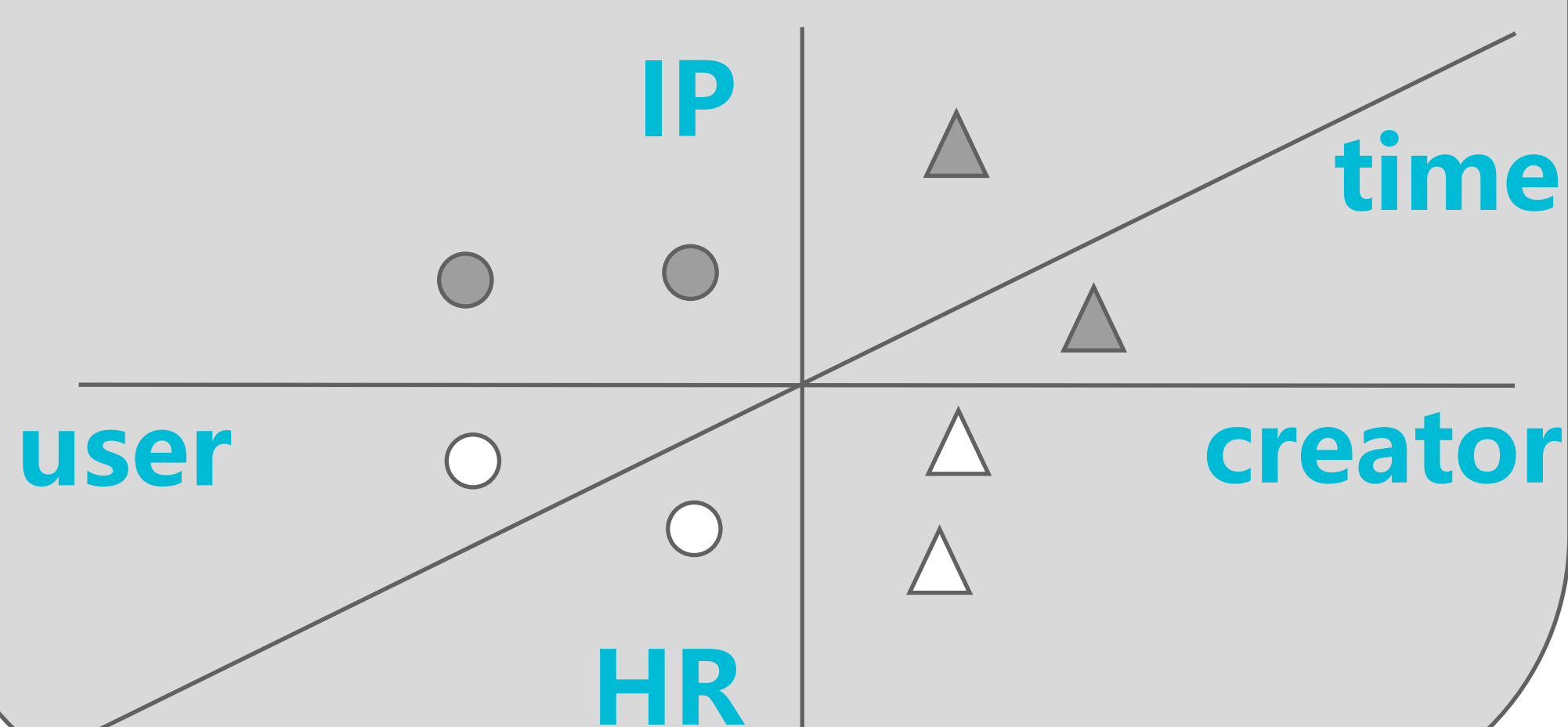
Oliver Ryan-George

Background

- Intellectual property's primary purpose is to incentivise creation of ideas
- But over protection of IP can limit access and hinder HR
- Proving link between fields may help maintain balance
- Previously done on case-by-case basis; natural language processing can provide systematic evidence quickly

Intellectual Property (IP)

Human Rights (HR)

#1 Visualisation

- Visualisation is key to demonstrating evidence
- 3D graph showing how journal articles language relates to a field/who it protects over time
- Patterns in visualisation can further understanding of how events affect the relationship

IP

time

user

creator

HR

#2 Classification

- Gather HR and IP documents and establish ground truths
- Use to train and test model
- Experiment with modelling algorithms and features to find best classifications

#3 Usability

- Provide a supplementing User Interface for non-Computer Scientists
- Allows self-explanatory uploads of new articles and displays of results