

:



Values in legal case-based reasoning

Henry Prakken & Giovanni Sartor

11 April 2018



Universiteit Utrecht



What if the previous schemes do not apply?

- Which decisions are allowed by a body of precedents?
 - Precedential constraint
- Where do preferences then come from?



Basic scheme for value-based reasoning with precedents

Deciding *case pro* when it contains *P promotes value V*

Deciding *current pro* promotes set of values *V1*

Deciding *current con* promotes set of values *V2*

V1 is preferred over *V2*

Therefore, *current* should be decided *pro*



Scheme for inferring value orderings from cases

Deciding *precedent* pro promotes set of values $V1$
Deciding *precedent* con promotes set of values $V2$
precedent was decided pro
Therefore, $V1$ is preferred over $V2$

Wild animals example



- **Pierson v Post:** *Plaintiff is hunting a fox on open land. Defendant kills the fox.*



- **Keeble v Hickersgill:** *Plaintiff is a professional hunter. Lures ducks to his pond. Defendant scares the ducks away*

- **Young v Hitchens:** *Plaintiff is a professional fisherman. Spreads his nets. Defendant gets inside the nets and catches the fish.*





Factors in the wild animals cases

- *Pierson* – defendant

- NotDefLiv: Defendant not pursuing livelihood (p)
- NotPLiv: Plaintiff not pursuing livelihood (d)
- NotOwnLand: Plaintiff not on own land (d)
- NotCaught: Plaintiff had not caught animal (d)

$\{\text{NotDefLiv}\} < \{\text{NotPLiv}, \text{NotOwnLand}, \text{NotCaught}\}$

- *Keeble* – plaintiff

- NotDefLiv: Defendant not pursuing livelihood (p)
- PLiv: Plaintiff pursuing livelihood (p)
- OwnLand: Plaintiff on own land (p)
- NotCaught: Plaintiff had not caught animal (d)

$\{\text{NotDefLiv}, \text{PLiv}, \text{OwnLand}\} > \{\text{NotCaught}\}$

- *Young* – (defendant)

- DefLiv: Defendant pursuing livelihood (d)
- PLiv: Plaintiff pursuing livelihood (p)
- NotOwnLand: Plaintiff not on own land (d)
- NotCaught: Plaintiff had not caught animal (d)

Pro = $\{\text{PLiv}\} > \{\text{NotOwnLand}, \text{NotCaught}, \text{DefLiv}\}$

Con = $\{\text{PLiv}\} < \{\text{NotOwnLand}, \text{NotCaught}, \text{DefLiv}\}$



Values in the wild animals cases

- *Values*

- Cval: Certainty and avoidance of litigation
- Eval: Economic benefit for society
- Pval: respecting Property

- *From factors to values:*

- Deciding pro when case contains P LIV promotes Eval
- Deciding pro when case contains OwnLand promotes Pval
- Deciding pro when case contains Caught promotes Pval
- Deciding con when case contains NotCaught promotes Cval
- Deciding con when case contains DefLiv promotes Eval

Values in the wild animals cases

- *Pierson* – defendant

- NotDefLiv: Defendant not pursuing livelihood (p)
- NotPLiv: Plaintiff not pursuing livelihood (d)
- NotOwnLand: Plaintiff not on own land (d)
- NotCaught: Plaintiff had not caught animal (d)

Cval

$$\{\} < \{Cval\}$$

- *Keeble* – plaintiff

- NotDefLiv: Defendant not pursuing livelihood (p)
- PliLiv: Plaintiff pursuing livelihood (p)
- OwnLand: Plaintiff on own land (p)
- NotCaught: Plaintiff had not caught animal (d)

Eval

Pval

Cval

$$\{Eval, Pval\} > \{Cval\}$$

- *Young* – (defendant)

- DefLiv: Defendant pursuing livelihood (d)
- PliLiv: Plaintiff pursuing livelihood (p)
- NotOwnLand: Plaintiff not on own land (d)
- NotCaught: Plaintiff had not caught animal (d)

Eval

Eval

Cval

$$\text{Pro} = \{Eval\} > \{Eval, Cval\}$$

$$\text{Con} = \{Eval\} < \{Eval, Cval\}$$



Further refinements

- Promotion and **demotion** of values
- **Degrees** of promotion or demotion
 - Absolute or marginal
- **Probability** of promotion or demotion