Recommender Systems Machine Learning for the Web

a talk for Python Sevilla

\$> whoami



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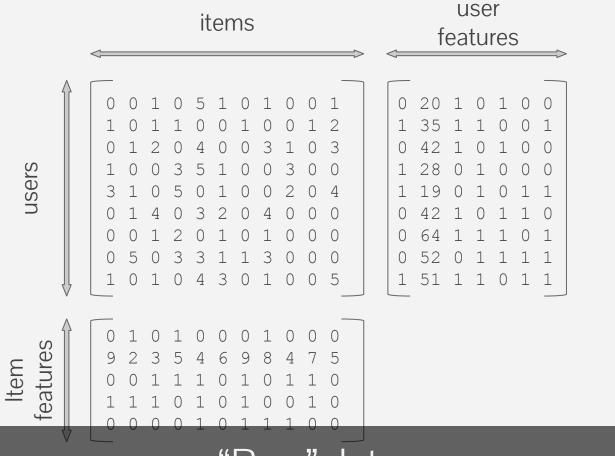
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MACHINE LEARNING CLASSIFICATION REGRESSION CLUSTERING RECOMMENDATION **GENERATION**



COLLABORATIVE FILTERING CONTENT-BASED FILTERING HYBRID SYSTEMS FAKE HYBRID SYSTEMS



"Raw" data

$$\widehat{r_{ui}} = f(q_u \cdot p_i + b_u + b_i)$$

$$q_u = \sum_{j \in f_u} e_j^U \qquad p_i = \sum_{j \in f_i} e_j^I \qquad b_u = \sum_{j \in f_u} b_j^U \qquad b_i = \sum_{j \in f_i} b_j^I$$

Latent factor models



Maciej Kula (Lyst)'s LightFM



QUESTIONS PLEASE

A MILLION THANKS FOR BEING HERE TODAY