

Application to Recommender Systems

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Single malt Scotch whiskey

Dataset consists of 109 Scotch whiskeys (**scotch.csv**)

Tasting notes:

- ▶ **color** (14 values): yellow, very pale, pale, pale gold, gold, old gold, full gold, amber, etc.
- ▶ **nose** (12 values): aromatic, peaty, sweet, light, fresh, dry, grassy, etc.
- ▶ **body** (8 values): soft, medium, full, round, smooth, light, firm, oily
- ▶ **palate** (15 values): full, dry, sherry, big, fruity, grassy, smoky, salty, etc.
- ▶ **finish** (19 values): full, dry, warm, light, smooth, clean, fruity, grassy, etc

Total of 68 characteristics. We denote each by a 0/1 variable.

Whether Scotch has a particular characteristic or not.

Single malt Scotch whiskey

We tried Ardbeg and really liked it.

Can we find other Scotches similar to it?

Tasting notes for Ardbeg:

- ▶ *Color*: sherry
- ▶ *Nose*: peat, dry, sea
- ▶ *Body*: medium, full, light, firm
- ▶ *Palate*: sweet
- ▶ *Finish*: salt

| Scotch ----- | Dist ---- | Description ----- |
|-----------------|--------------|--|
| Ardbeg | 0.00 | sherry; peat, dry, sea; medium, full, light, firm; sweet; salt |
| Bowmore | 0.43 | old gold; peat, dry, grass, sea; medium, light; sweet; salt, quick |
| Inchgower | 0.61 | gold; aroma, peat, sweet, dry, sea, rich; medium, smooth; sweet; salt; salt, long |
| Pulteney | 0.61 | amber; fresh, dry, sea; light, firm; smooth, sweet, spice, salt; warm, salt, long |
| Bunnahabhain | 0.62 | gold; fresh, sea; medium, light, firm; clean, fruit, sweet; full |
| Glenury Royal | 0.63 | bronze; peat, dry; medium; light, firm; dry, smoke, sweet; dry, fruit, smoke, sweet, very long |