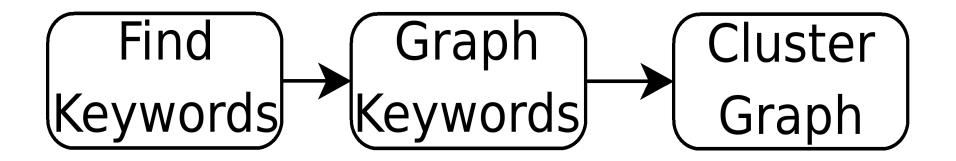
Extracting Topics from Product Reviews

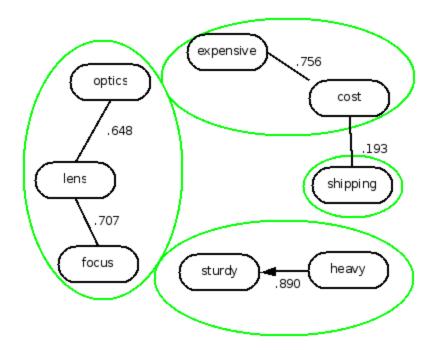




Bethany Herwaldt, Patrick Moran, Jeffrey Salter North Carolina State University Mentored by Dr. Carl Meyer

Aldteran Method

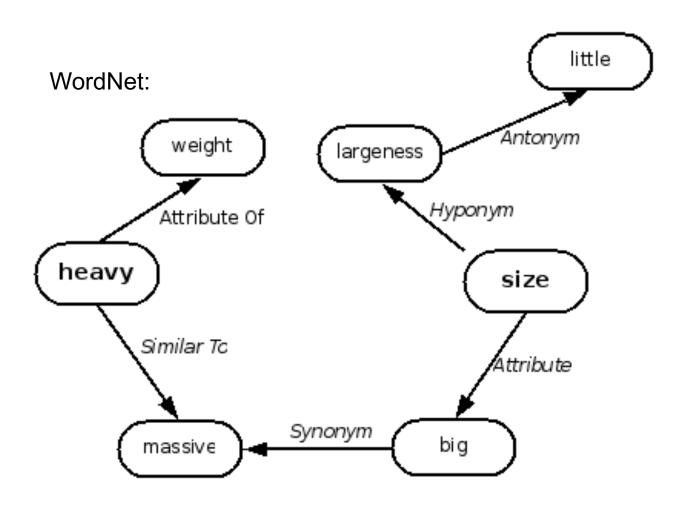




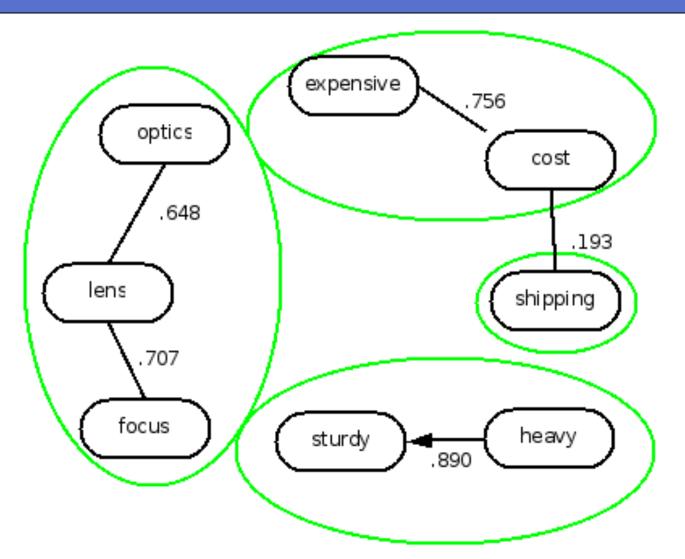
Step 1: Find Keywords

```
Part A:
                                      Review #2
   camera \begin{bmatrix} 5 & 2 & \cdots \\ 3 & & & \\ & & & \\ \end{bmatrix} \approx \begin{bmatrix} H & \end{bmatrix} lens \begin{bmatrix} 3 & \cdots \\ 3 & & \\ & & & \\ \end{bmatrix} \approx \begin{bmatrix} W \end{bmatrix}
                                                                                                              Part B: \frac{freq_{dataset_i}}{freq_{english_i}}
```

Step 2: Graph Keywords



Step 3: Cluster Graph



Results

Leica D-Lux 3

image, images, color, quality, clarity lens, optics, decent, sturdy use, its delicate, shipping, raw, mode, ratio size, post, noise, flash, screen canon, nikon, sony, packaging, mp feature, format, shoot, lightweight pictures, candid, landscapes digital, compact, complicate, swears options, menu, item, manual, settings, sensor, photos, photographer, worlds, shoots camera, cameras love, very, great, also, excellent, expensive everyday grandchildren aspect

Canon PowerShot ProSeries S5

```
zoom
lens
stabilized, blurry
series, product, digital, canon, mp
purchase, outstanding
quality
reviews, como, muy, bueno, buena
cap
pictures, image, optical
review, shipping, mode
great, user
camera, cameras
photo, awesome, shots
price, noise
very, lo, owned, photographs, purchased
photos, display, videos, controls
video, recommend, battery
x, es, por, su
love, flash
much, nice, s, excellent
```