Web scraping

Digital Kultur

Agenda Digital Kultur

- Netnography an example
- Web scraping configuration
- Web Scraping static web pages
 - Exporting the results
- Web Scraping dynamic web pages

Velbeskrevet metodisk afsnit til inspiration



The current issue and full text archive of this journal is available at www.emeraldinsight.com/1352-2752.htm

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Using netnography research method to reveal the underlying dimensions of the customer/tourist experience

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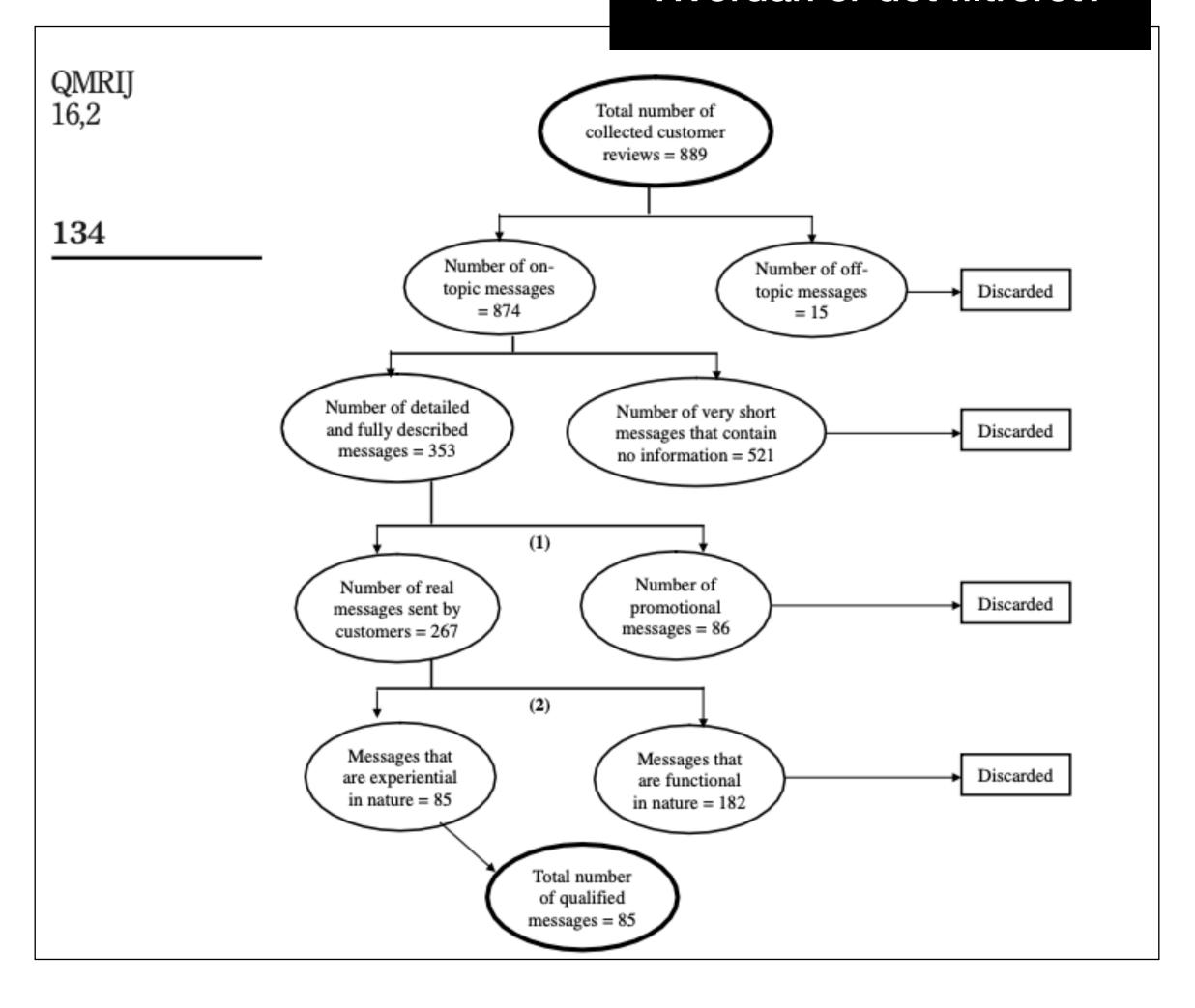
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Hvor er det opsamlet?

Resort name	Number of customer reviews	Netnography research method
www.tripadvisor.	com	
Four Seasons	74	
Hyatt Regency	141	
Grand Rotana Resort and Spa	60	
www.holidaywatchd	log.com	133
Renaissance Golden View	14	
Sunrise Island View Hotel	14	
Hyatt Regency	6	
Concorde El Salam Hotel	34	
Conrade Sharm el Sheikh Resort	24	
Jaz Mirabel Beach Resort	29	
Baron Resort Hotel	13	
Sultan Gardens Resort Hotel	13	
Hilton Sharm Dream Resort Hotel	7	
Maritime Jolie Ville Resort & Casino	6	
Melia Sinai Hotel	10	
Hilton Sharm Waterfalls Resort	3	
berotel Grand Sharm Hotel	5	
Laguna Vista Hotel	26	
Sunrise Island Garden Suites	18	
Marriot Mountain & Beach Resort	3	
Neama Bay Hotel	1	
Savoy Hotel	10	
Coral Beach Tiran	3	
Grand Rotana Resort	2 47	
LTI Oriental Resort	29	
Reef Oasis Beach	22	
Baron Palms Resort	5	
Sheraton Sharm Hotel Resort	8	
Domina Coral Bay Harem	4	
Hauza Beach Resort	38	
Three Corners Kirosiez	38	
Creative Mexicana Resort Hotel	8	
Sonesta Beach Resort	13	
Domina Coral Bay	4	
Sol Y Mar Mirabel Beach Resort	2	
Pyramisa Sharm Resort	18	
Millennium Oyoun Hotel & Resort	5	
Rehana Sharm Resort	55	
Tropitel Neama Bay Hotel	10	
Royal Rojana Hotel	4	
Domina Coral Bay Resort	4	
Royal Plaza Hotel	22	
Calimera Royal Diamond Beach	2	
Grand Plaza	25	
Raouf Sun Hotel	3	
Noria Resort Hotel	1	Table I.
Royal Paradise	5	The number
Cameldive Club and Hotel	1	of the examined
Total	889	customer reviews

Hvordan er det filtreret?



Rageh, A., Melewar, T. C., & Woodside, A. (2013). Using netnography research method to reveal the underlying dimensions of the customer/tourist experience. *Qualitative Market Research An International Journal*, 16(2), 126–149. doi:10.1108/13522751311317558

Insiders & Devotees

Kozinets highlights devotees and insiders as the most enthusiastic, actively involved and sophisticated users and thus as the most important data sources for researchers.

Bowler, G. M. (2010). Netnography: A Method Specifically Designed to Study Cultures and Communities Online. The Qualitative Report, 15(5), 1270-1275. https://doi.org/10.46743/2160-3715/2010.1341

Strategy

- Ask one or two central questions followed by no more than seven related sub-questions.
- Relate the central question to the specific qualitative strategy of inquiry.
- Begin the research questions with the words "what" or "how" to convey an open-ended and emergent research design.
- Focus on a single phenomenon or concept.
- Use exploratory verbs such as "discover", "understand", "explore", "describe", or "report".
- Use open-ended questions.
- Specify the participants and the research site for study.

Research questions

We explore the ways virtual communities help brides-to-be manage crosscultural ambivalence as they plan their weddings. We address the following two research questions:

- (1) What roles do wedding message boards play for brides as they plan cross-cultural weddings?
- (2) How do brides use these Internet communities to cope with the cross-cultural ambivalence they experience? (p. 90)

Themes & Codes

Comfort

Older customers, in particular, stressed the importance of comfort as a customer experience. The qualitative study's findings indicated that the customers' decision on their holiday destination was closely wedded to their desire for relaxation. Additionally, the textual analysis of the customer reviews revealed a focus on the comfort and relaxation they experienced during their stay:

The day to leave came and we were sad. What a fantastic holiday, we have never felt so comfortable or welcome anywhere. We enjoyed one of the most relaxing and enjoyable holidays to date.

The findings are consistent with Crompton (1979), Shoemaker (1989) and Otto and Ritchie (1996). Customers referred to the basic amenities hotels provide to ensure their

Web scraping

Motivation

- To engage with and capture data that is accessible in the browser/web but has no API by building a scraper (bot)
- Lot of solutions exists (plugins, add-ons, IDE's)
 - Often times a custom solution is necessary, except for very simple cases
- We will be using a popular framework Selenium



Top 10 Web Scraping Tools













Configuration + Hello World

Selecting elements

Using the Selenium WebDriver

```
//Returns a single WebElement with HTML id = 35
driver.findElement(By.id("35"));
//Returns a list of Elements with HTML class = "row"
driver.findElements(By.className("row"));
//Returns a list of elements with the HTML tag 
driver.findElements(By.tagName("ul"));
//Returns a single element with the xpath query
driver.findElement(By.xpath("//*[@id=\"39587344\"]/td[3]/span/a"));
```

Deeply nested elements

Example - The Hackernews Title

```
K [0
      Elements
            Recorder <u></u>

Z
                                                    Application
                                Network
                                      Performance
                                              Memory
                     Console
                           Sources
 <html lang="en" op="news">
 ▶ <head> ··· </head>
 ▼<body>
  ▼<center>
   ▼
    ▼
     ▼
      ▼
       ▼
        ▼
         ▼
          ▶  • • 
          ▼
           ▼<span class="pagetop">
            ▼<b class="hnname">
              <a href="news">Hacker News</a> == $0
...
             </b>
             <a href="<u>newest</u>">new</a>
             <a href="front">past</a>
             <a href="newcomments">comments</a>
```

Exercises: Pairs in DK2 groups