

# TIES4911:


## Demo 6 5.3.2018

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## Task 6-1:

- Slack bot for searching company news ratings and current stock market price
- Company news from IBM Watson Discovery News
- Stock prices from Google Finance
- Support search from different exchanges

**Lauri** 2:46 PM  
[@ibm\\_discovery\\_bot](#) search Outokumpu

**IBM Discovery Bot** APP 2:46 PM  
Outokumpu Oyj (HEL: OUT1V)  
Current price: 6.41 (+0.03, 0.44 %)  
Opening price: 6.36  
Day high: 6.48  
Day low: 6.36  
  
Outokumpu got 7 hits with 7 positive and 0 neutral and 0 negative.

 Message [@ibm\\_discovery\\_bot](#)



**Lauri** 2:47 PM

@ibm\_discovery\_bot search HEL:Nokia



**IBM Discovery Bot** APP 2:47 PM

Nokia Oyj (HEL: NOKIA)

Current price: 4.72 (+0.07, 1.51 %)

Opening price: 4.65

Day high: 4.73

Day low: 4.65

Nokia got 5567 hits with 4743 positive and 351 neutral and 473 negative.



Message @ibm\_discovery\_bot



**Lauri** 2:50 PM

search NASDAQ:Apple

@ibm\_discovery\_bot search NASDAQ:Apple



**IBM Discovery Bot** APP 2:50 PM

Apple Inc. (NASDAQ: AAPL)

Current price: 176.21 (+1.21, 0.69 %)

Opening price: 172.80

Day high: 176.30

Day low: 172.45

Apple got 39444 hits with 18899 positive and 3469 neutral and 17076 negative.



Message @ibm\_discovery\_bot

## Task 6-1:

- Twitter personality analysis with Personality Insights. It is already done, by IBM, but idea would be to do own implementation without direct copying.
- Automated blog post illustrator. Use e.g. Google's Natural Language Processor for processing blog text and try to find key concepts from text and search Creative Commons licensed images with Google Image search. Validate correct content of the image with one of the image classifier services.
- Automated news notification with Slack Bot and IBM Discovery news.
- Automated financial news evaluation and stock sell or buy suggestions with IBM Chat-Bot and Discovery News, Tone Analyzer.
- Automated public opinion evaluator (from forums, comments, etc.) with IBM Tone Analyzer and Azure Language.