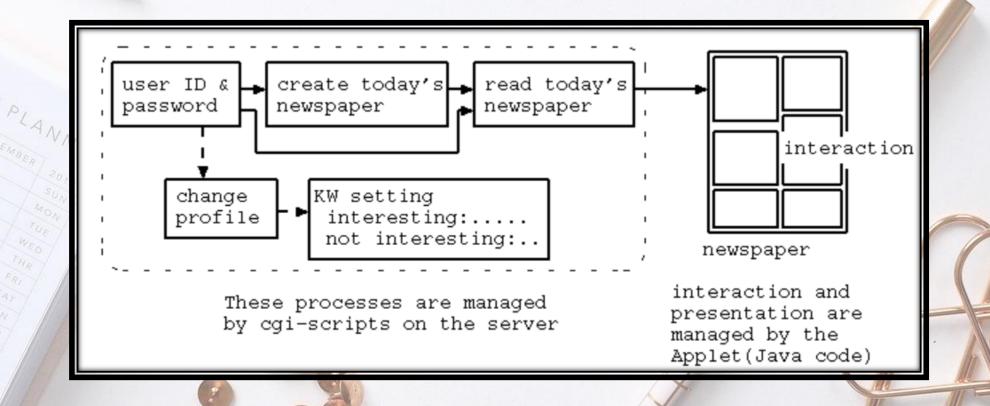
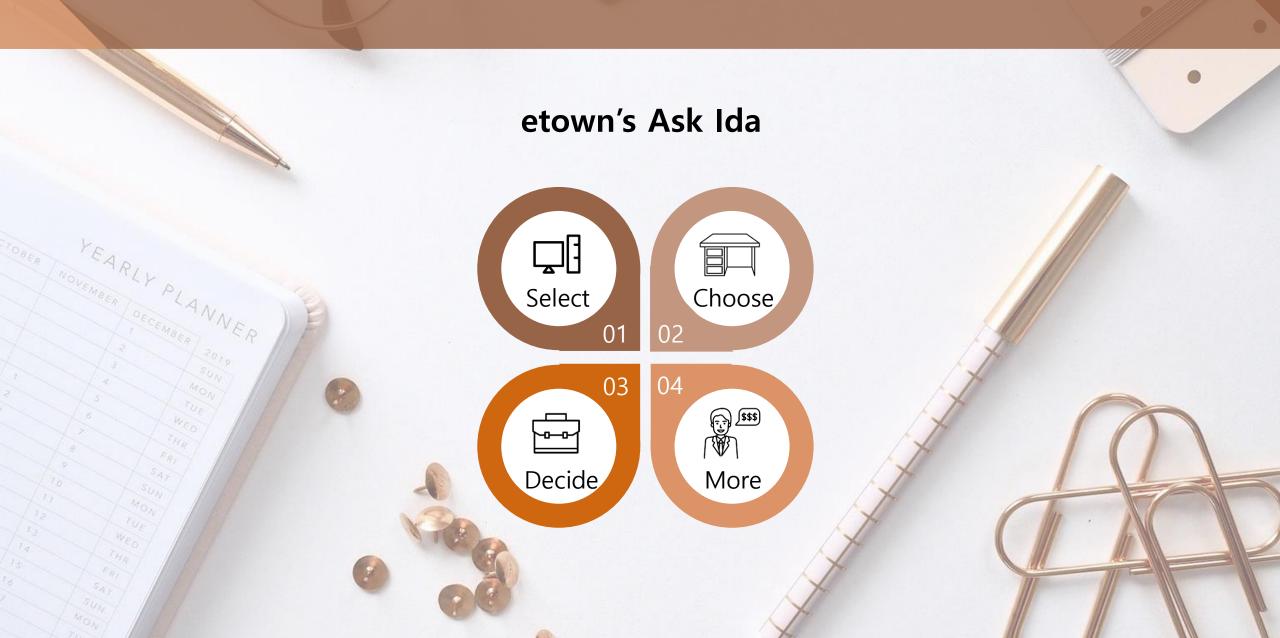


Reading a newspaper (User's view)



<u>Profile 제작</u>

- · User could build own profile
- Infer profile from user actions
- Infer profile from ratings
- → Keyword에 대한 Likes와 dislikes을 count





etown's Ask Ida



Ask Ida!

Hall (1992)

HOT DRALS!

Bank @

Want Choiceef

DealerWeb"

Editors Picks

News & Views

OThis Just In

- ·Dynamo shoes generate electricity
- ·Showtime phases in Dolby 5.1 sound
- EMI to yend pay per download songs
- -Streaming A/V on your cell phone?
- -Stephen King plans serial e-book
- -Juno, Hughes Team on Web-by-
- Will Sony Palm unit hit U.S. by Xmas?

ONew Reviews/Products

- ·EXCLUSIVE: Toshiba 480p-out DVD
- ·Bush TV center has nice price
- · Vidikron projector: 'an eye-opener!'
- ·Panamax nixes electrical spikes
- · JVC boombox has stylish looks
- -D88 security recommends AT&T phone
- ·EXCLUSIVE: Sharp DVD player
- ·EXCLUSIVE: Philips/TiVo recorder
- ·EXCLUSIVE: Outlaw 6.1 A/V receiver

Ceatures / Columns

- -Unclear on the THX concept?
- In the Mix: Did we ask for DVD-A?
- · Don't miss our updated FAQ for DTV!
- Gamcorder Corner: Fade to black
 How to set up your subwoofer

Browse & Buy

Home Theater

YCE Establic DYD feceivers Surround Separates Separates Packaged Systems Recodes Accessories Ech.

Television

Direct May TV Sear Projection TV Front Projection TV Stat Panel TV DIVINDTY Personal TV TV/VX R

Camcorders

Smm Formats VMS Formats DV Format Storial Cameras

Home Audio

CD Players TaperStap Recorders Speakers Compact Systems Phono Phonysted Amps Thereo Separates Accessories Multimedia Speakers AV Furnitins

Portable Tech

Boomboies Personal Cassette Personal CD Morbisc Palm PCs Portable Redics Distal Cameras MP2 Planes Hadshooss 2 was Radios OPS

Teleco

Condess Phones Cell Phones Thorse/Instanting Contoes Pagers Conded Telephones Pay Machines Answering Machines

Accessories

Persota Controla Audio Cables Video Cables AV Funntura Artenni Cases/Dazz Surpa Suppressora





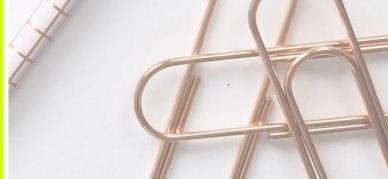








\$879.88 (III) PAID (NO





etown's Ask Ida

Ida: Your Interactive Decision Assistant



Welcome!

I'm Ida, your interactive decision advisor. I can help you find the products that best suit your needs and preferences. I combine etown.com's expertise on consumer electronics with state-of-the-art artificial-intelligence techniques from Ask Jeeves. I think you'll find shopping for electronics can be easy and fun!

Select the product category you are interested in:

Home Theater

- DVD Players
- A/V Receivers
- VCRs

Home Audio

- Compact Systems
- CD Players

Portable Tech

- Digital cameras
- Boomboxes
- Handheld/Palm PC

Telecom

Cordless Phones

Camcorders

8mm, VHS, and DV





etown's Ask Ida





Choosing a digital camera

Picking out the right digital camera is a matter of finding out which features and benefits will work best for you. Answer a few questions for us, and we'll help you pick one that you'll like. There are 50 digital cameras to choose from so let's get started.

How are you planning on using the images that you'll shoot with your new digital camera? (Check all that apply.)

- Post them to a Web site. I need enough picture quality for my shots to look good on screen, though I don't need to print them.
- Email them to friends and family. I need a wide range of picture quality, some people may want to print the pictures I send.
- Make prints out of them. I need an upper-level camera with the best possible picture resolution, because at some point, there'll be hard copies.



Experience

Your answers to the next 2 questions will help me determine which digital cameras I should recommend to you.

In general, how experienced a photographer are you?

- C I'm a casual user. I like to shoot pictures, and I don't like to fuss with technology. The simpler my camera is, the better I like it.
- I know my way around a camera. I'm interested in a digital camera with features that can make my work better and more enjoyable.
- C I'm an avid photographer. I want an advanced digital camera that can keep up with my ideas and provide me with the most creative options.

etown's Ask Ida

Olympus D450Z Sax atoon con Savious

\$499

Pros: it can store 18 pictures at its highest resolution, it has 1280 x 060 pixels. resolution, it uses SmartMedia to store pictures, and it has an optical znom lens.

Otympus D460 Zoom

\$499

Prost: it can store 18 pictures at its highest resolution, it has 1280 x 960 pixels. resolution, it uses SmartMedia to store pictures, and it has an optical zoom lens.

- Fuji MX1200 See stove, con Review

Prost: it can store 23 pictures at its highest resolution, it has 1200 x 950 pixels resolution, and it uses SmartMedia to store pictures. Cons: it doesn't have an optical zeom tens.

- Nikon 800

Bur \$599

Pros: It has 1600 × 1200 pixels resolution, it has CompartFlash storage media, and it has an optical zoom lens. Const: it can store only 8 pictures at its high-ext repolution.

6 Top of Page

I can refine these recommendations if you tell me more about your needs. I suggest Optical zoom as the next question to consider, or you can select the topic you wish:

Next question Optical zoom











Nikon 800 - \$599.00 (msrp)

Given the information you have provided, the Nikon 800 is one of my top recommendations. Click the link to go directly to a question that will explain the feature and help you decide if that feature makes sense for you!

Pros: Its advantages include:

- it has an LCD view screen.
- · it has manual overrides.
- · it has an optical viewfinder.
- . it has 1600 x 1200 pixels resolution.
- · it has a serial output connection.
- · it has CompactFlash storage media.
- · it has a video out connection,
- it has a built-in digital zoom.
- it has an optical zoom lens.

Cons: Possible disadvantages include:

- it can store only 8 pictures at its highest resolution.
- it doesn't have a <u>USB connection</u>.



[]_\$\$\$ []

More

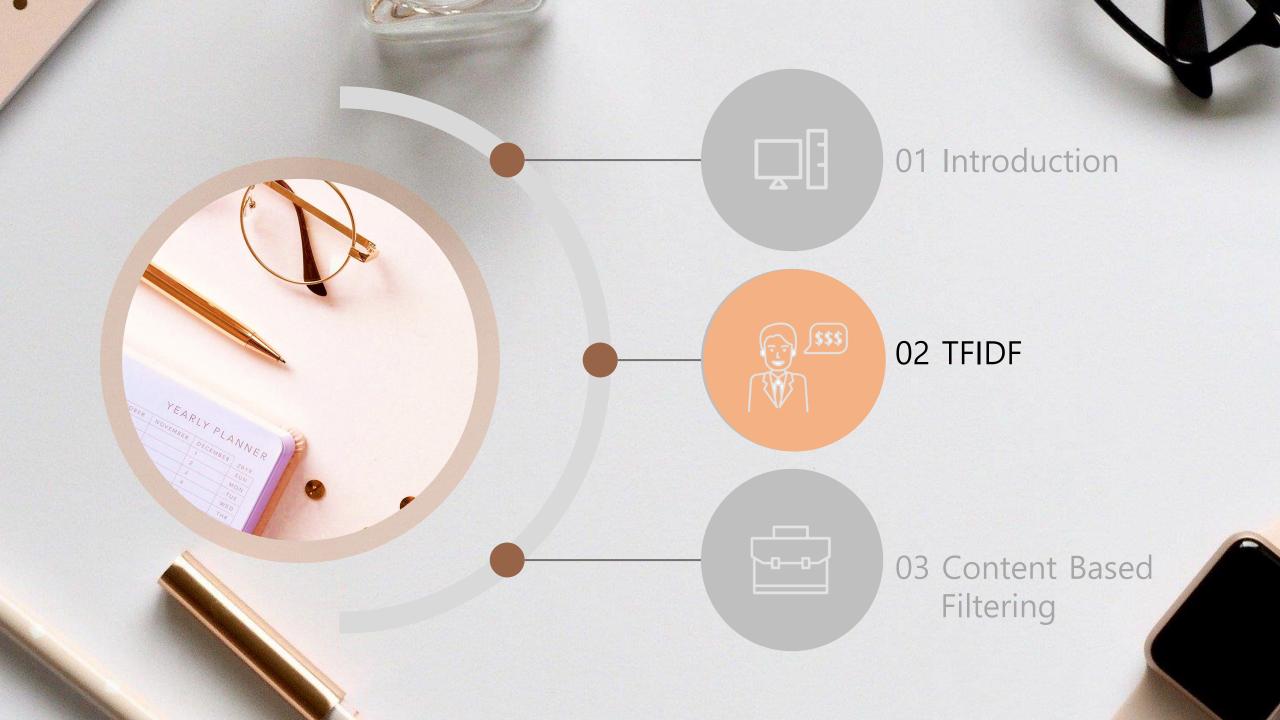


Entrée's Navigation Interface



Challenges and Drawbacks

- · Painting의 경우, 특징들을 listing하기가 어렵다
- · 각각의 특징들이 Item에 적절하게 분배되어 있어야 한다
- · 색다른 Connection을 찾기가 어렵다
- · Substitutes을 찾기는 쉬워도, Complements를 찾기 어렵다



TF * IDF

TF: Term Frequency

특정한 단어가 문서 내에 얼마나 자주 등장하는지를 나타내는 값

IDF: Inverse Document Frequency

여러 문서에서 등장한 단어의 가중치를 낮추는 역할

$$\operatorname{idf}(t,D) = \log \frac{|D|}{|\{d \in D : t \in d\}|}$$



TFIDF의 역할

- · 모든 문서에서 자주 등장하는 단어는 중요도가 낮다고 판단 ex) The
- 특정 문서에서만 자주 등장하는 단어는 중요도가 높다고 판단

TFIDF의 약점

- · If core term/concept isn't actually used much in document
- · Poor searches

Variants on TF

- · 0/1 Boolean frequencies
- Logarithmic frequencies → log(TF+1)
- Normalized frequency

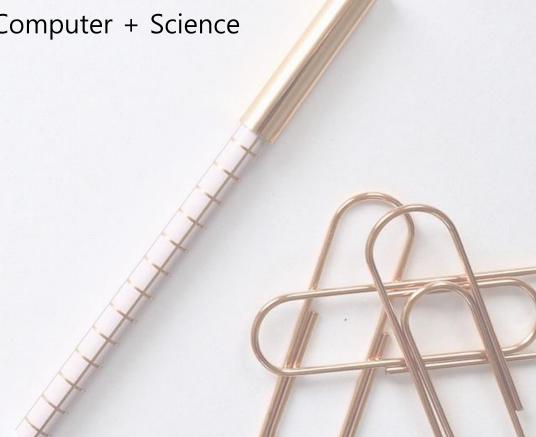


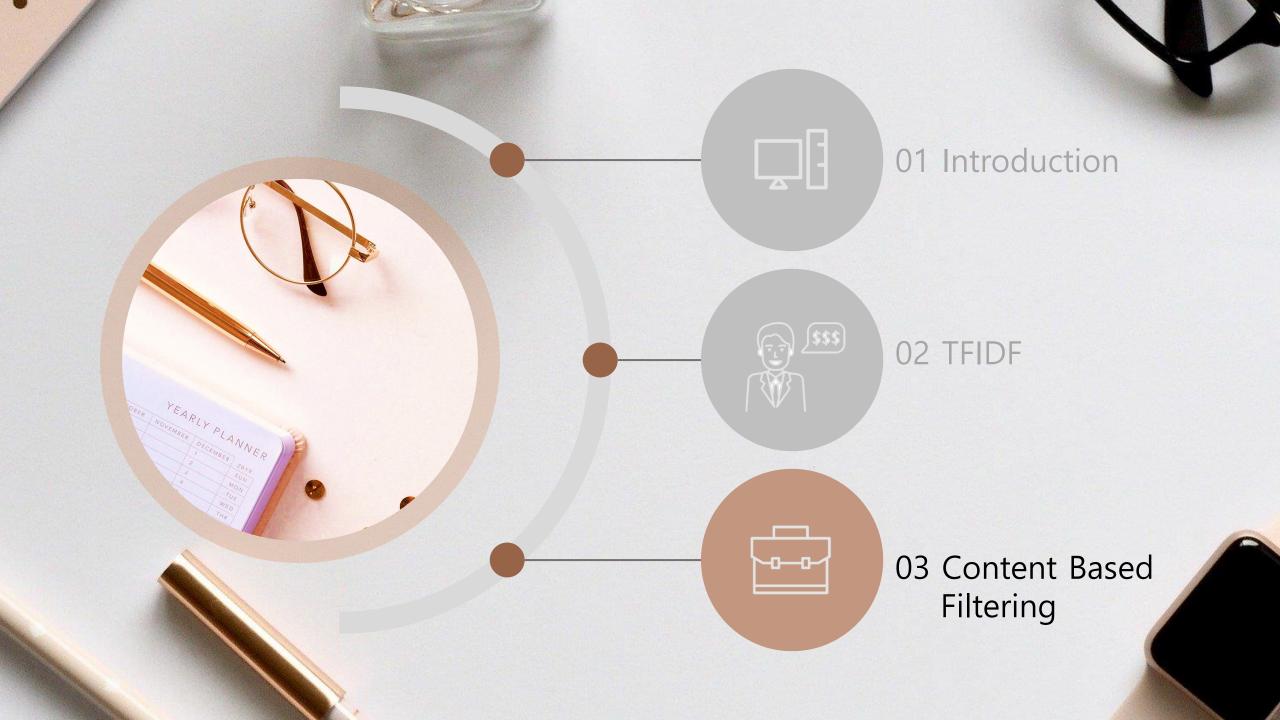


TFIDF 실제로는 더욱 복잡하다

- · N-grams ex) Computer Science ≠ Computer + Science
- · Significance in Documents
- General Document Authority
- · Implied Content







Keyword Vector

- Each keyword is a dimension
- Each item has a position → vector
- Each user has a profile → vector
- Match: how closely the two vectors align?
- Limit keyword space ex) stem and stop

Formalization

 $t \in T$

 T_i : the set of tags applied to item i

 t_{ui} : tag application

 $\rightarrow : Weighted vector of tags$

Prediction

- Profile vector와 Item vector간의 Cos 계산
- 범위 : [-1 , 1]
- 같은 방향 → 최댓값 1
- Top-n : 상위 n개의 데이터를 사용하여 Predict

이러한 접근 방식의 이점

- · Content-Based
- · Understandable Profile - 수정이 가능
- · Easy Calculation

이러한 접근 방식의 한계점

- · 적절한 Weight와 Factor
 - Reiteration에 주의
- Interdependencies



