



MINDBREEZE INSPIRE

[WWW.MINDBREEZE.COM](http://WWW.MINDBREEZE.COM)

# ABOUT ME



**Patrick Geschwentner**  
Customer Success Manager



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**Mindbreeze GmbH**  
Honauerstrasse 2  
4020 Linz, Austria  
[www.mindbreeze.com](http://www.mindbreeze.com)

t: +43.732.606162-620  
f: +43.732.606162-609  
e: [patrick.geschwentner@mindbreeze.com](mailto:patrick.geschwentner@mindbreeze.com)

## AND YOU?

- What's your name, where are you coming from?
- What is your profession?
- You have experience with search?
- You have experience with coding, administrating, Linux,...?
- You want to share some of your interests/hobbies?

# Agenda

- Motivation & Introduction
- Search
- Web Connector
- Semantics
- Search Apps
- 360 Degree Introduction

# Information and Training documentation

- All the training information will be put into a secure Fabasoft Cloud Teamroom



- [Mindbreeze InSpire Training](#)

# Introduction

# Mindbreeze InSpire

## Security and Reliability

- ISO 27001 Certification
- ISO 20000 Certification
- ISO 9001 Certified Quality Management
- ISAE 3402 TYPE 2

## Global Players' First Choice in Big Data Search

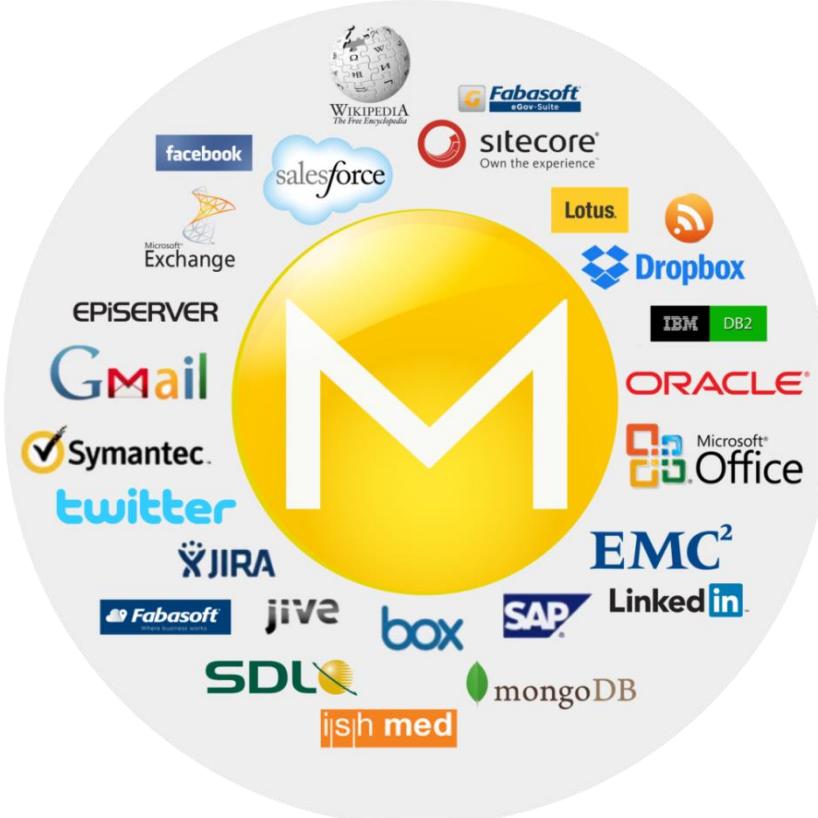
**1000+** customers

**1.7B** documents in largest installations

## Solutions

- Knowledge Management
- Healthcare
- Classification





More and more  
data sources  
in your company...

...need a clear view on:

- Customers
- Products
- Projects
- Customer Care
- Business Relationships



Unpack



Plug In



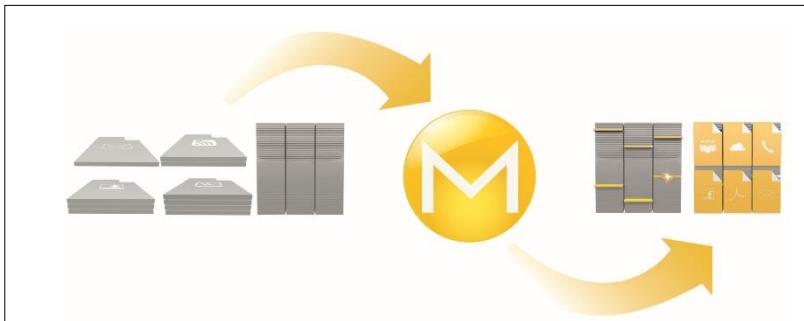
Sync



Search

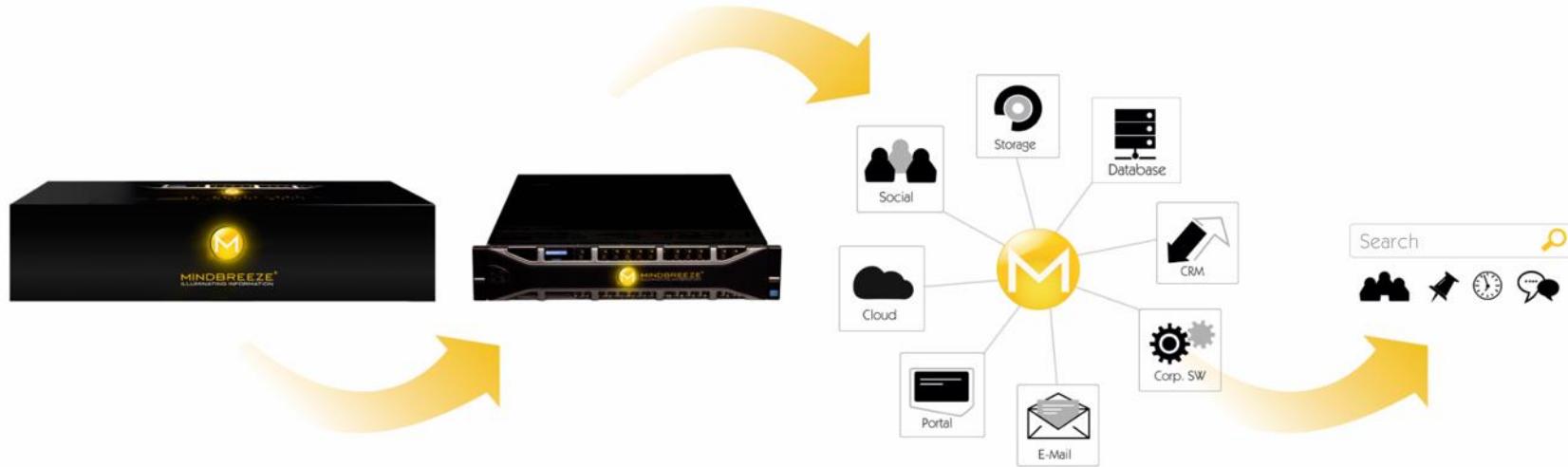


The screenshot shows a search interface with a sidebar for 'Saved Searches' and a main area for '3256 Results'. The results list includes 'Mindbreeze\_1.pdf' and 'Mindbreeze\_3.pdf', each with a preview, file size (5.1 MB), and a list of authors (Kogler, Ulrike; Fabasoft R&D GmbH; Mindbreeze GmbH).



- Find in enterprise data (content and metadata)
  - Within the access rights
- Understanding and analyzing content
  - Automatic classification
  - Machine/Deep Learning
  - Entity Recognition
- Crosslinking data
  - Search applications for different information needs
  - 360 degree view

# Your Knowledge Advantage. Our Appliance.



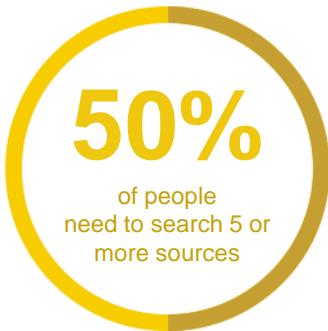
# The first digital revolution

- What percentage of information was stored digitally in businesses 1993 vs. 2007?
  - 1993 ... 3 % (according to IDC)
  - 2007 ... 94 % (according to IDC)
- How many percent of the global data was created in the last two years?
  - 90% equivalent to about 2.25 Zettabyte (2250 Exabyte)
- How much data is produced every day?
  - 2.5 Exabyte (2 621 440 Terabyte)
    - 2020: 44 Zettabyte (4400 Exabyte)
- How many percent of the digital enterprise information are actively used?
  - 1%

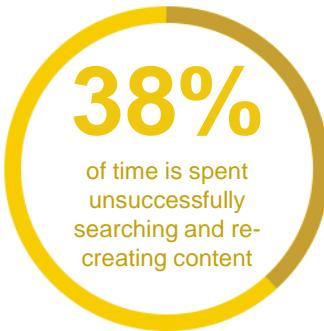
# Employees waste a lot of time looking for the right information



Source: AIIM



Source: AIIM



Source: IDC

# Highest in Insight Engines

Figure 1. Magic Quadrant for Insight Engines



Source: Gartner (March 2017)

Gartner®

Magic Quadrant for Enterprise Search 2017

“

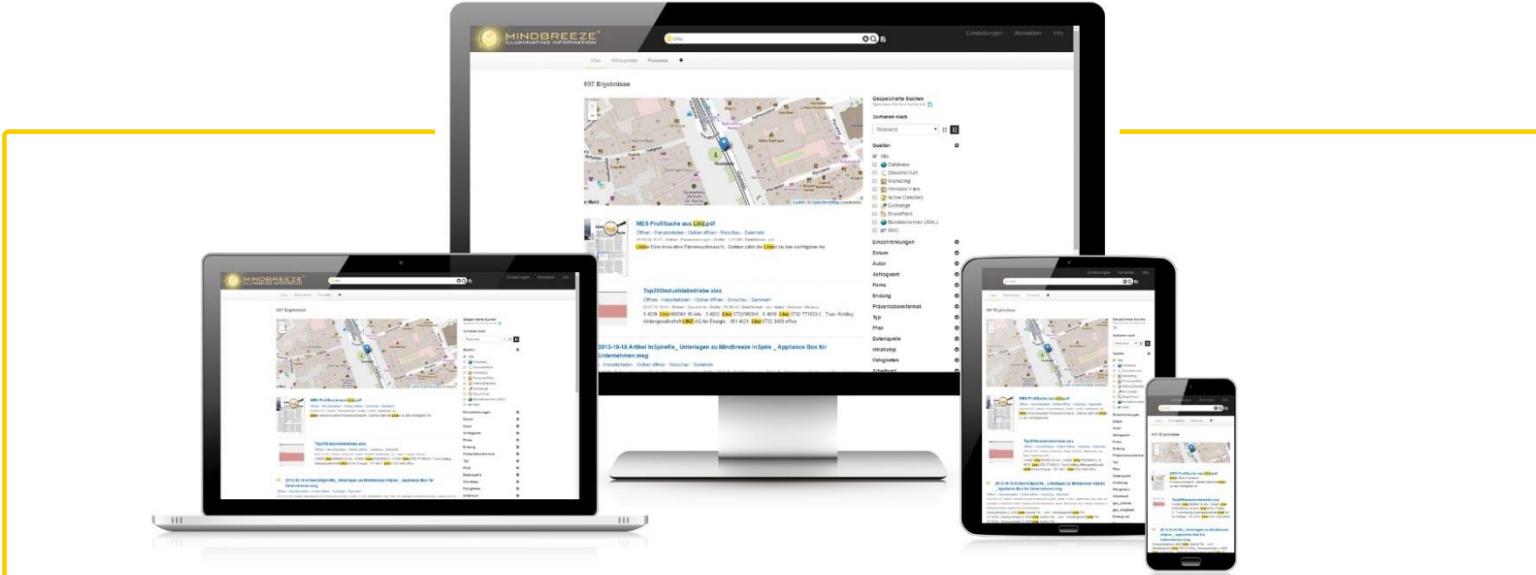


The Forrester Wave™: Cognitive Search And Knowledge Discovery Solutions, Q2 2017





One search. Endless possibilities.



Relevant Search

From Any Source

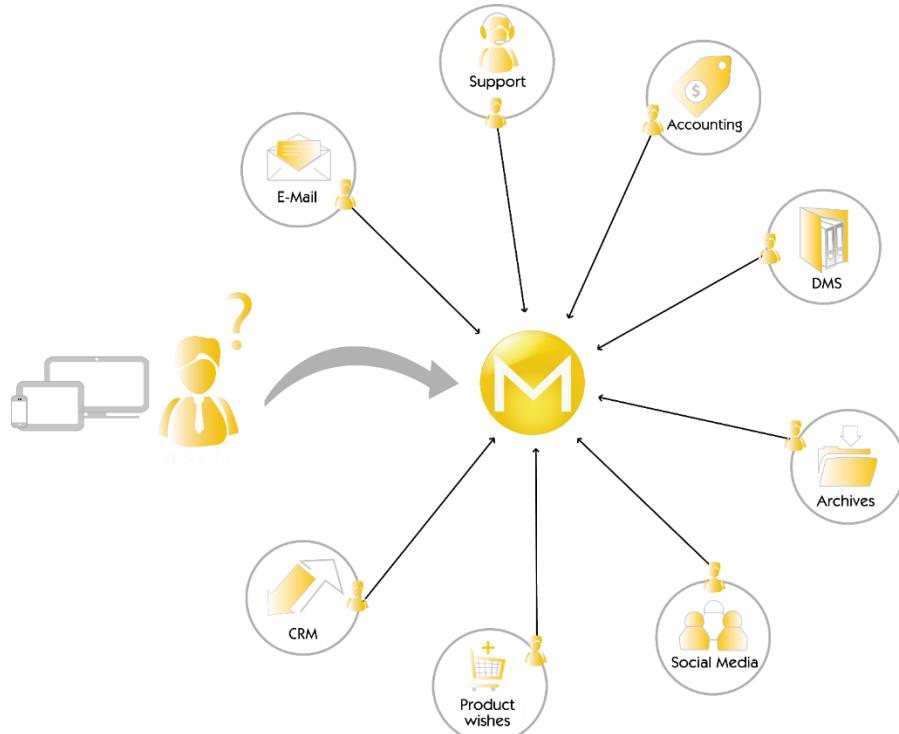
On Any Device

Simplicity At Scale

# Do you have a 360° view on your customers?



# No, using 1% of your company knowledge is not enough





voestalpine



voestalpine  
EINEN SCHRITT VORAUS.

voestalpine group-IT GmbH

Customer number: 9411  
Name: voestalpine group-IT GmbH  
Address: voestalpine-Straße 3, 4020 Linz  
Phone: +4350304150  
Email: office@voestalpine.com



voestalpine

Exit

360° - View

Sales summary

voestalpine

EINEN SCHRITT VORAUS.

Customer number: 9411  
Name: voestalpine group-IT GmbH  
Address: voestalpine-Straße 3, 4020 Linz  
Phone: +4350304150  
Email: office@voestalpine.com

Relationships

relationship type	No. of Relationship Partner	Name of Relationship Partner	Department
has Contact Person	9411	Christian Fischer	Consulting and Concepts
has Contact Person	9411	DI Harald Fulöp	Customer Management
has Contact Person	9411	Ing. Stefan Pöchtrager	Infrastructure architecture

Leads

Lead Nr.	Description	Start Date	End Date	Status	KAM
1	Enterprise Search	01.11.2013	01.01.2015	in progress	Gerald Martinetz

Opportunities

Opportunity Nr.	Description	Start Date	End Date	Status	Contact (customer)	KAM	Proposal Manager	Type	Sales
3	Online Price List	01.09.2014	01.01.2015	in progress	DI Harald Fulöp	Gerald Martinetz	Daniel Fallmann	Appliance	12000€
1	Enterprise Search	01.11.2013	01.01.2015	Discarded	Ing. Stefan Pöchtrager	Gerald Martinetz	Daniel Fallmann	Appliance	500000€
2	360° customer view	01.09.2014	01.01.2015	In progress	DI Harald Fulöp	Gerald Martinetz	Daniel Fallmann	Appliance	12000€

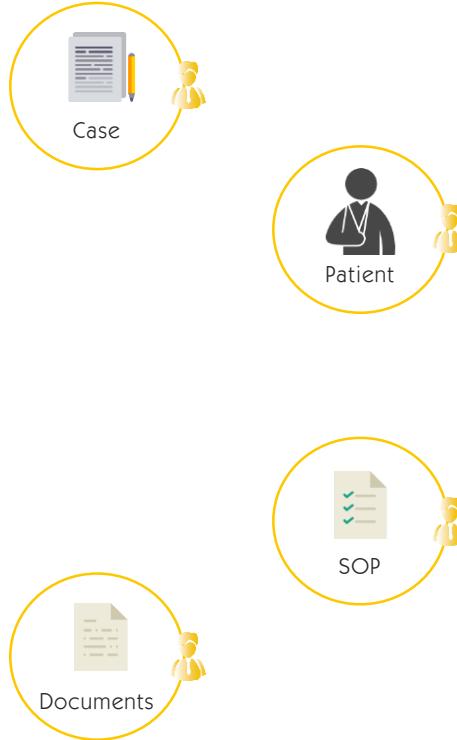
Deals

Offer Nr.	Description	Start Date	End Date	Status	Contact (customer)	KAM	Proposal Manager	Offer value
116/2013	Angebot Mindbreeze InSpire	01.11.2013	30.05.2014	Freigegeben R3	Gerald Martinetz	Michael Biebl	Daniel Fallmann	10020€
147/2014	Angebot Mindbreeze InSpire 2M	01.11.2014	20.01.2015	Freigegeben R3	Gerald Martinetz	Michael Biebl	Daniel Fallmann	10020€

Ticket statistic

letztes Monat gesamt	letztes Monat erfüllt in %	gesamt offen	gesamt Geschäftsjahr
6	99	1	30

# Healthcare



# Healthcare



Settings Logout Help About

kidney

Documents Patients Medicine All +

11 Results Export patient list

PAP Last Name\_163808, First Name\_163808 02. January 2009

Preview - All Doc. to this Case - All Doc. to this Patient - Collect

Date: 02.01.09 03:00 - Type: PAP - Departmental OU Operat. Preparation Dep. 1 - Casenumber: 0109000341 - Patientnumber: 0500422103 - Age: 60 - Gender: W - Diagnosis: Koxarthrose - Planned anesthesia: General Anesthesia - Allergies: known: none - ASA: 1

Cardiovascula: **Kidney** Cirrhosis: No Endocrinology: Thyroid dysfunction: No ...

PAP Last Name\_456725, First Name\_456725 05. January 2009

Preview - All Doc. to this Case - All Doc. to this Patient - Collect

Date: 05.01.09 03:00 - Type: PAP - Departmental OU Operat. Preparation Dep. 1 - Casenumber: 46884233467 - Patientnumber: 0500422103 - Age: 60 - Gender: W - Diagnosis: Koxarthrose - Planned anesthesia: General Anesthesia - Allergies: known: none - ASA: 1

Cardiovascula: **Kidney** Cirrhosis: No Endocrinology: Thyroid dysfunction: No ...

PAP Last Name\_100462, First Name\_100462 22. May 2009

Preview - All Doc. to this Case - All Doc. to this Patient - Collect

Date: 22.05.09 03:00 - Type: PAP - Departmental OU Operat. Preparation Dep. 1 - Casenumber: 00471000213 - Patientnumber: 0500422103 - Age: 60 - Gender: W - Diagnosis: Koxarthrose - Planned anesthesia: General Anesthesia - Allergies: known: none - ASA: 1

Cardiovascula: **Kidney** Cirrhosis: No Endocrinology: Thyroid dysfunction: No ...

PAP Last Name\_642001, First Name\_642001 02. January 2009

Preview - All Doc. to this Case - All Doc. to this Patient - Collect

Date: 02.01.09 03:00 - Type: PAP - Departmental OU Operat. Preparation Dep. 1 - Casenumber: 0109000341 - Patientnumber: 0500422103 - Age: 60 - Gender: W - Diagnosis: Koxarthrose - Planned anesthesia: General Anesthesia - Allergies: known: none - ASA: 1

Cardiovascula: **Kidney** Cirrhosis: No Endocrinology: Thyroid dysfunction: No ...

PAP Last Name\_300021, First Name\_300021 02. January 2009

Preview - All Doc. to this Case - All Doc. to this Patient - Collect

Date: 02.01.09 03:00 - Type: PAP - Departmental OU Operat. Preparation Dep. 1 - Casenumber: 0109000341 - Patientnumber: 0500422103 - Age: 60 - Gender: W - Diagnosis: Koxarthrose - Planned anesthesia: General Anesthesia - Allergies: known: none - ASA: 1

Cardiovascula: **Kidney** Cirrhosis: No Endocrinology: Thyroid dysfunction: No ...

Settings Logout Help About

kidney

Documents Patients Medicine All +

11 Results

All Documents to Patient Nummer 0500422103

2 Results

Nov Dec Jan Feb Mar

2008

PAP Last Name\_164525, First Name\_164525 02. Jänner 2009

Preview - All Doc. to this Case - Collect

Date: 02.01.09 12:31 - Type: PAP - Departmental OU: AMBULANCE Dep. I - Casenumber: 0108034929 - Patientnumber: 0500014726 - Age: 60 - Gender: M - Other Diagnoses: PONVIII, Hypertonie, - Allergies: not known - ASA: 2

Age: 60 Years, Gender: male Entered: Dr. Max Mustermann, other Diagnosis: PONVIII, Hypertonie, ...

PAP Last Name\_145682, First Name\_145682 02. Jänner 2009

Preview - All Doc. to this Case - Collect

Date: 02.01.09 12:31 - Type: PAP - Departmental OU: AMBULANCE Dep. I - Casenumber: 31597563000 - Patientnumber: 6200001500 - Age: 60 - Gender: M - Other Diagnoses: PONVIII, Hypertonie, - Allergies: not known - ASA: 2

Age: 60 Years, Gender: male Entered: Dr. Max Mustermann, other Diagnosis: PONVIII, Hypertonie, ...

# Competitive Intelligence



# Competitive Intelligence



 **Wearable**  
Suche

 **Fashion goes full circuit with Intel chip, wearable-tech contest**  
Fashion goes full circuit with Intel chip, wearable-tech contest  
Intel.com [http://www.state.com/st/story/Article/Fashion-a-wearable-chip-with-Intel-in-hn/4841078.html?utm\\_source=cnbc.com&utm\\_medium=referral&utm\\_campaign=CNBC+Tech+Digest+Email+Newsletter+10/10/13](http://www.state.com/st/story/Article/Fashion-a-wearable-chip-with-Intel-in-hn/4841078.html?utm_source=cnbc.com&utm_medium=referral&utm_campaign=CNBC+Tech+Digest+Email+Newsletter+10/10/13)

 **Mofa - a wearable smart toy More active, imaginative play.**  
Mofa - a wearable smart toy More active, imaginative play. Get more running time, running more More active imagination play. Get laundry time, laundry more Get laundry time from more laundry time with

 **OFF THE RUNWAY: 4 WAYS TO END SHORT FOR SUMMER**  
If there's one trend we absolutely swooned over at the fall shows, it was the emporium of colored trousers via 3.1 Phillip Lim, Yigal Azrouel, Prabal Gurung and Jason Wu. Here's how to bring the trend to life in [Off the runway: 4 ways to end short for summer](http://www.state.com/st/story/Article/Off+the+runway+4+ways+to+end+short+for+summer/4841079.html?utm_source=cnbc.com&utm_medium=referral&utm_campaign=CNBC+Tech+Digest+Email+Newsletter+10/10/13)

 **ABOUT FACE: LARA STONE**  
Golden girl Lara Stone, after a five year runway streak, still is able to generate mass intrigue. Perhaps it's because her proportions throw the fashion Powers That Be a bit off balance. A size 7 shoe is a rarity among big bust models, but Stone rocks a pair [about face](http://www.state.com/st/story/Article/About+face+Lara+Stone/4841080.html?utm_source=cnbc.com&utm_medium=referral&utm_campaign=CNBC+Tech+Digest+Email+Newsletter+10/10/13)

 **VIXEN AND VEGAN**  
Vixen: Hurling leather and lingerie inspired lace used to scream dominatrix, but who would have guessed that leather and lace is the newest pairing to make blips on the trend radar? Mixing leather with lace is both [inventive and innovative](http://www.state.com/st/story/Article/Vixen+and+vegan/4841081.html?utm_source=cnbc.com&utm_medium=referral&utm_campaign=CNBC+Tech+Digest+Email+Newsletter+10/10/13) and makes for an

**HEADBANDS, EMBELLISHMENTS AND SAFETY PINS, OH MY!**  
Fashion Week is always full of perfect pieces, sick silicon and general innovation for the fashion forward

The screenshot shows a German website with a header 'Stilettos' and a sub-header 'Schuhe'. The main content features a banner for 'Stilettos' with a woman in a red dress. Below the banner, a section titled 'Fash Deals: Winter Boots!!!' discusses the arrival of winter boots and provides a link to 'DRESS UP WITH DRESSES AND BOOTS'. The text 'You know those days that you stare into your closet and just a dead drop fabulous outfit would pull out at you? Curse those closet ho-hums with the perfect autumn accessories boots! You can pull them in tons of different ways... just click here to see them!' is followed by a large '21 DAYS OF THE REALEST GIFTING / DAY 20: ENTER FOR A CHANCE TO WIN ANY WINTER BOOTS OF YOUR CHOICE!' button. Below this, a section titled 'Eek! It's almost over! We're now in Day 20 of our 21 Days of the Realest Gifting! To keep your toes warm this winter, we're giving away a pair of any winter boots!' includes a 'Hallo, jetzt zum Newsletter anmelden!' button. The bottom of the page features a 'Give Spring The Boot' section with a banner for 'Stilettos' and a 'Give Spring The Boot' button, along with text about the campaign and a 'SHOP GIVE SPRING THE BOOT' button.

Suche

forever21

**HAPPY BIRTHDAY, FOREVER21+!**

Thanks for playing! Our winners have been chosen—scroll down to see if you're one of the lucky ones. There was an unprecedented response to this post, and we loved all the comments you left. We'll do our best to make sure you're entered for another contest soon!

**Best of #F21 on Instagram from 2013**

As 2013 comes to an end, we can't help but start to feel nostalgic. Reaching 1 Million and then 2 Million fans on Instagram were definitely 2 of our most exciting moments of 2013. And now, we have the best fans ever—congratulations, and happy New Year, F21ers!

**21 NEWS: FRESH NEW FACES ON FOREVER21.COM**

Notice anything new about our New Arrivals section lately? Our stylists just got a whole lot more busy... Model, actress, and singer [Kaitlyn Dever](#) is the new face of [Forever21.com](#)! Her movie *Wifey* (What would a wife do?) hits theaters this Friday.

**Forever21+ | 21 Street Blog | Forever 21**

Forever21+ | 21 Street Blog | Forever 21 SUBSCRIBE | Forever 21 email updates stay in the know. Sign up for our e-mail updates to be the first to know about promotions, new arrivals, and more! [Get the Benefits](#) [Exclusive offers for subscribers](#) Be the first to know!

**FOREVER21+ GUEST BLOGGER FEATURE: MARIE DENEU OF THE CURVY FASHIONISTA**

We are SO SOO excited to introduce our first plus-size guest blogger, Marie Deneu of the Curvy Fashionista. She's a plus-size fashionista, blogger, and style icon who uses her blog to highlight those amazing minds behind it.

**#FOREVER21WB - ENTER FOR A CHANCE TO WIN A TRIP TO LA FOR 2 TO VISIT WARNER BROS STUDIOS!**

**Suche**

**Hello, jetzt zum Newsletter anmelden!**  
Esprit Dusch- & Döse für Damen im Online Shop kaufennew-arrivals-arrowKONTAKT & FEEDBACK up down ZUR MOBILANSICHT+ parmon.slider\_0 parmon.slider\_5 Sortieren Marke

**Hello, jetzt zum Newsletter anmelden!**  
Esprit Pumps im Online Shop kaufennew-arrivals-arrowKONTAKT & FEEDBACK up down ZUR MOBILANSICHT+ keystyle\_1000x1000\_400\_markiert Filtern Größe Schuhgröße 36-37-38

**Hello, jetzt zum Newsletter anmelden!**  
Esprit Küchenaccessoires im Online Shop kaufennew-arrivals-arrowKONTAKT & FEEDBACK up down ZUR MOBILANSICHT+ keystyle\_702x1000\_300\_headbannner Filtern Größe Tischdecken 140x180 cm

**Hello, jetzt zum Newsletter anmelden!**  
Esprit Duschgel & Döse für Männer im Online Shop kaufennew-arrivals-arrowKONTAKT & FEEDBACK up down ZUR MOBILANSICHT+ Sortieren Marke CASUAL zuerst...

**Hello, jetzt zum Newsletter anmelden!**  
Esprit Kleider im Online Shop kaufennew-arrivals-arrowKONTAKT & FEEDBACK up down ZUR MOBILANSICHT+ women-kleid headbanner Filtern Größe Sport / Formelle Kleidung XXS/32 XS/34 ...

**Hello, jetzt zum Newsletter anmelden!**  
Esprit Mode im Online Shop kaufennew-arrivals-arrowKONTAKT & FEEDBACK up down ZUR MOBILANSICHT+ minihoppermarke

# CONTRACT MANAGEMENT

# Components



# Components







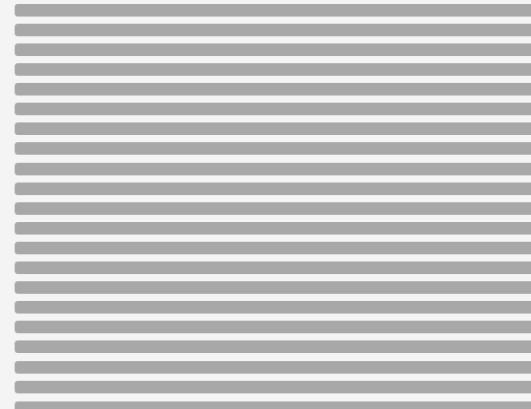
Component



Maintenance \_\_\_\_\_



Logistics \_\_\_\_\_



Experts \_\_\_\_\_



Tickets \_\_\_\_\_

Feedback		Feedback #01			
Tickets	<input type="radio"/> Ticket #001 <input type="radio"/> Ticket #002	<input type="radio"/> Ticket #003	<input type="radio"/> Ticket #004	<input type="radio"/> Ticket #005	
	Aug	Sep	Okt	Nov	Dez

# Personalizing results to different groups



Marketing

The screenshot shows the Mindbreeze search interface with a black and white theme. At the top, there is a search bar with the text "marketing" and a magnifying glass icon. Below the search bar are "Settings", "Logout", and "About" buttons. The main search results are displayed with a title "8787 Results" and an "export" button. The results list includes several documents and images, such as "Mindbreeze InSpire.pptx", "Enterprise\_Search.pptx", "Sprint #6 Review.ppt", and "Next Generation Mindbreeze.ppt". On the right side of the interface, there is a sidebar with "Saved Searches" (empty), "Sort by" (set to "Relevance"), and a list of filters: "Sources", "Refinement", "Date", "Author", "Tag", "Company", "Status", and "File type". The "File type" filter is expanded, showing options for "All", "png", "jpg", "gif", "pdf", and "xml". The "All" option is selected. Below this is a "Presentation format" filter and a "Type" filter, both of which are also expanded. The "Type" filter shows options for "All", "zip", "png", "jpg", "pdf", "gif", and "xml", with "All" selected. A "Search" input field is located at the bottom of the sidebar. A yellow "feedback" button is positioned on the right side of the sidebar area.



Developer

The screenshot shows the Mindbreeze search interface with a black and white theme, similar to the Marketing group's interface. At the top, there is a search bar with the text "marketing" and a magnifying glass icon. Below the search bar are "Settings", "Logout", and "About" buttons. The main search results are displayed with a title "1441 Results" and an "export" button. The results list includes several documents and images, such as "Marketing-Sales", "Anita Gruber", "Karin Bauer", "Harald Stadlbauer", "Logo Mindbreeze.png", "InSite.png", and "Mindbreeze logos.zip". On the right side of the interface, there is a sidebar with "Saved Searches" (empty), "Sort by" (set to "Relevance"), and a list of filters: "Sources", "Refinement", "Date", "Author", "Tag", "Company", "Status", and "File type". The "File type" filter is expanded, showing options for "All", "png", "jpg", "gif", "pdf", and "xml". The "All" option is selected. Below this is a "Presentation format" filter and a "Type" filter, both of which are also expanded. The "Type" filter shows options for "All", "zip", "png", "jpg", "pdf", "gif", and "xml", with "All" selected. A "Search" input field is located at the bottom of the sidebar. A yellow "feedback" button is positioned on the right side of the sidebar area.

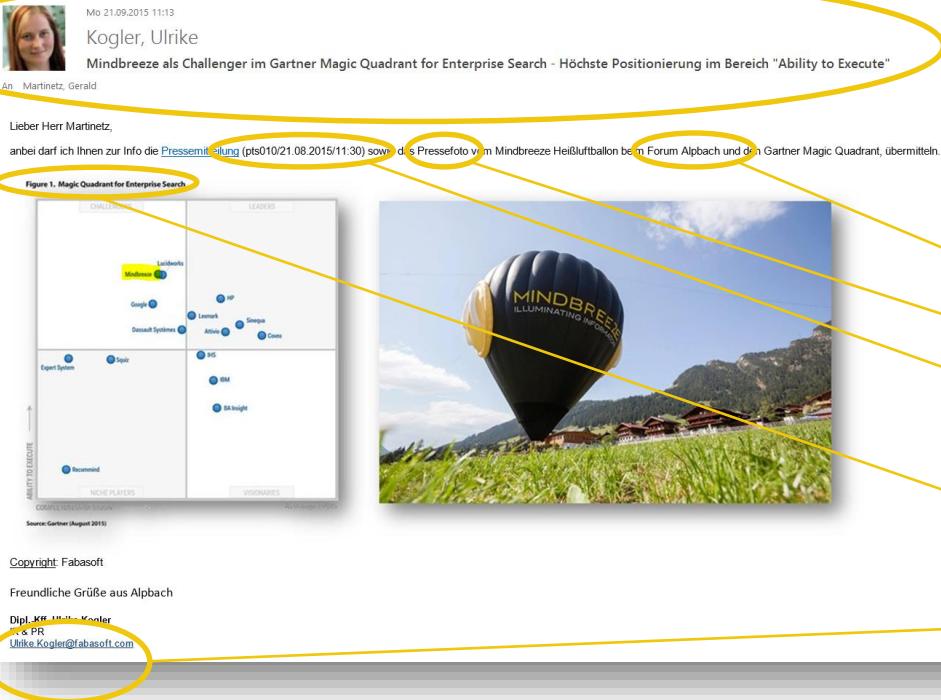
feedback

# Automated Classification

- Numerous e-mails and letters every day
- It's a time-consuming task to classify the documents
- Automate this process with Mindbreeze InSpire



# Automated data extraction



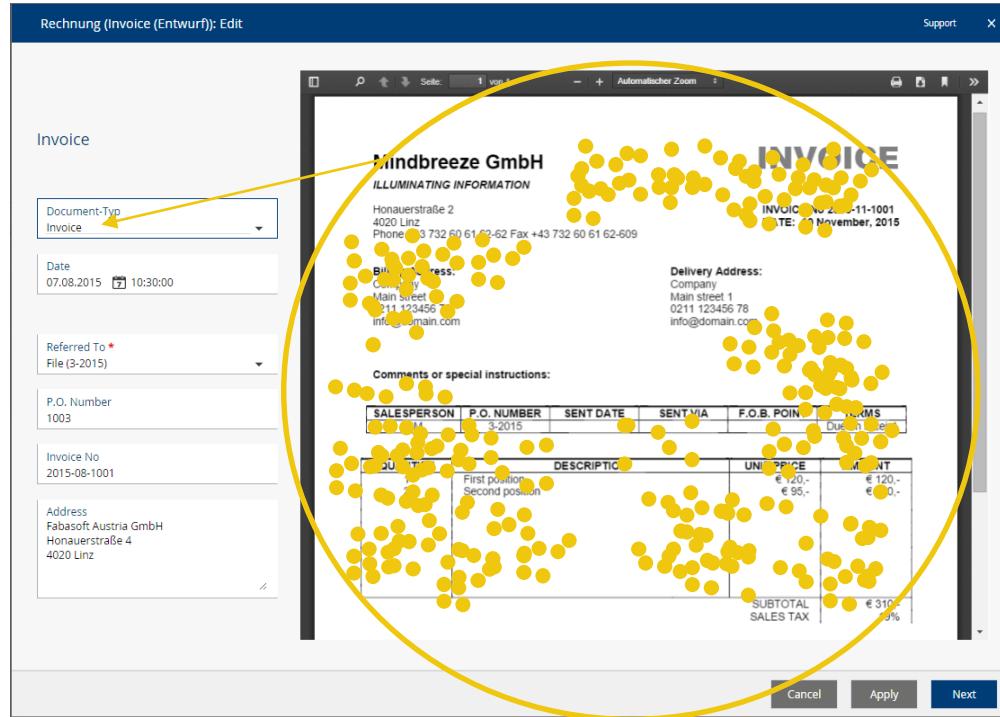
- Structured information

- Addressee (From, To, CC)
- Subject
- Delivery date

- Unstructured information

- Event (Forum Alpbach)
- Press Photo
- Press release text (pts010)  
Press Release Delivery date/time  
(21.08.2015 at 11:30)
- Analyst (Gartner Magic Quadrant for Enterprise Search)
- Signature information  
([Ulrike.Kogler@fabasoft.com](mailto:Ulrike.Kogler@fabasoft.com))

# Automated classification "Document Type"



# Use Cases

# Toolbox

# Concepts

- Overview to specific
  - Grouped by type
- Mega Search Field
  - Display dialog when “selecting” autocomplete entry
  - Keyboard navigation
  - Navigate to search page

# Image Gallery

# Concepts

- Best view for your data
  - Images
  - Use all the metadata available to you

# Healthcare

# Concepts

- 360° View
  - Patient
  - Case
- Stack
  - Actions
  - Keep your history

# Skills



MINDBREEZE®  
ILLUMINATING INFORMATION

# Concepts

- Find without searching
- Enhance

# Projects

# Concepts

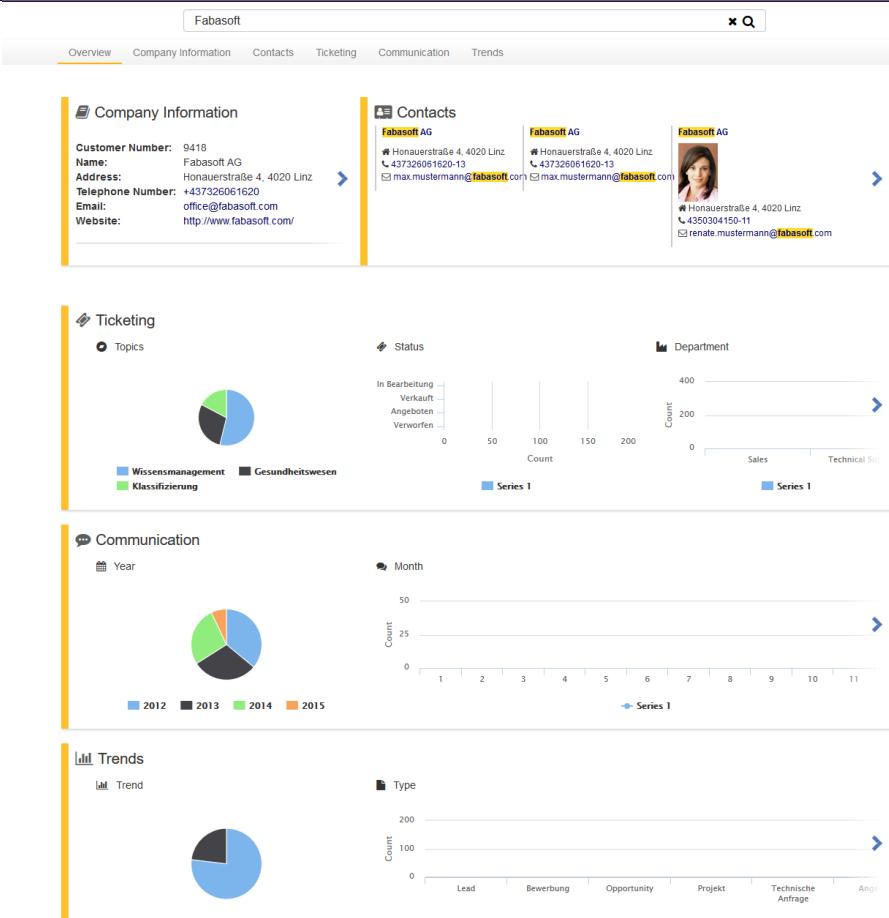
- Find without searching
  - Documentation
  - Emails
- Every user sees a “personalized” view because of authorization

# Research

# Concepts

- Integration into Confluence
  - Search App
  - New documenttype (Recharge)
  - Collect Results and add it directly to confluence API

360° view on a customer

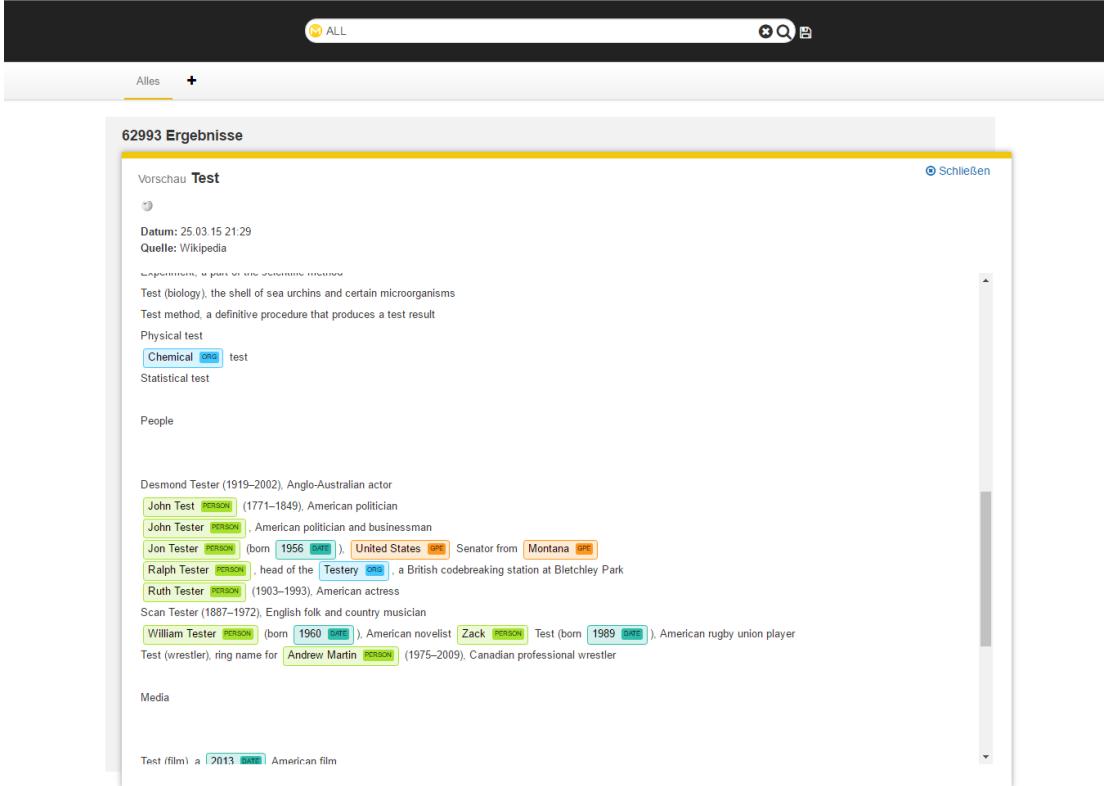


# Healthcare Dokumentsearch

# Concepts

- Personalized View for documents (SearchApp)
  - PDF-Preview
  - Personalized actions
  - Filters
  - Extraction of metadata from CSV (table in resultlist)

# Natural Language Processing



The screenshot shows a search interface with a dark header bar. The header contains a yellow icon with a question mark, the text 'ALL', a search icon with a magnifying glass, and a close/clear icon. Below the header is a navigation bar with 'Alles' and a '+' sign. The main content area is titled '62993 Ergebnisse' (62993 results) in bold. On the right side of this title is a 'Schließen' (Close) button. The results are categorized into sections: 'Vorschau Test' (Preview Test), 'People', and 'Media'. The 'Vorschau Test' section shows a preview of the search results for 'Test' with details like 'Datum: 25.03.15 21:29' and 'Quelle: Wikipedia'. Below this, there are several definitions and examples, each with a small blue box containing a category label (e.g., 'Chemical test', 'Statistical test') and a green box containing a sub-label (e.g., 'test'). The 'People' section lists various individuals with their names in blue and their birth/death years in green boxes. The 'Media' section lists a single item: 'Test (film) a [2013 DATE] American film'. The interface uses a light gray background with a vertical scroll bar on the right side of the results area.

# Concepts

- Indexation of Wikipedia,..
- Classification and recognition of metadata

# Natural Language Processing 2

- which hospital are located in Honolulu?

which hospital are located in Honolulu

Einstellungen Info

Alles +

5 Ergebnisse exportieren

**Gespeicherte Suchen**  
Speichern Sie Ihre Suche mit

**Sortieren nach**

Relevanz

**Quellen**

Alle

Hawaii Hospitals

**Datum**

Alle

2016

**Breitengrad**

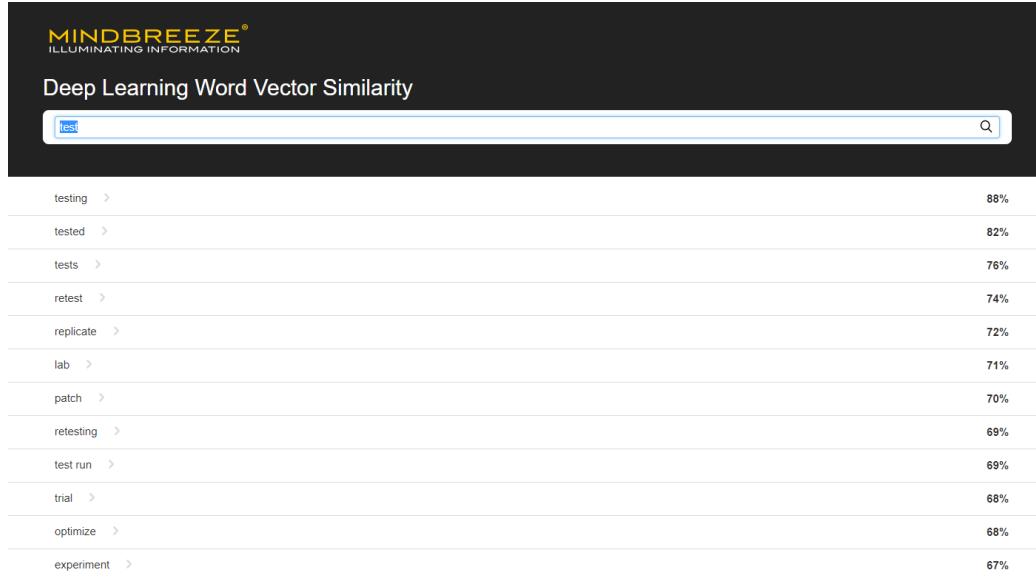
**Längengrad**

**LEAHI HOSPITAL**  
open - Vorschau - Sammeln  
03.05.16 21:19 - Breitengrad: 21.2684244315063 - Längengrad: -157.7915108909736

**STRAUB CLINIC AND HOSPITAL**  
open - Vorschau - Sammeln  
03.05.16 21:19 - Breitengrad: 21.31055008497322 - Längengrad: -157.86281449117345

# Deep Learning Demo

- <https://demo.mindbreeze.com/inspirenew/apps/sense2vec-demo/www/?word=bank&sense=auto>



MINDBREEZE®  
ILLUMINATING INFORMATION

### Deep Learning Word Vector Similarity

test

testing >	88%
tested >	82%
tests >	76%
retest >	74%
replicate >	72%
lab >	71%
patch >	70%
retesting >	69%
test run >	69%
trial >	68%
optimize >	68%
experiment >	67%

# Concepts

- Shows Recognition of similar words by meaning with deep-learning

# References

MILLIONS OF SATISFIED USERS CAN'T BE WRONG



**Lufthansa**



**DAIMLER**



MORRISON HERSHFIELD



**SCHENKER**



**NUCOR**



**EXPRESS SCRIPTS®**

# Lastest References of the last 6 months

**mabe**



EXPRESS SCRIPTS®

**NUCOR**

B/S/H/



**AMN**  
Healthcare

Ps **Public  
Storage**®

**BANNER**  
more sensors, more solutions



**BOSCH**

**wüstenrot**



 **CaixaBank**



**RHÖN-KLINIKUM**  
AKTIENGESELLSCHAFT

 **SYCAMORE**  
Medical Center  
KETTERING HEALTH NETWORK

**KEITHLEY**

**ADAC**

# Wüstenrot uses Mindbreeze



Dipl.-Ing. (FH) Siegbert Schwaighofer  
IT Core Systems at Wüstenrot



„Already in the PoC it was apparent that the success rate of Mindbreeze in the area of classification clearly eclipsed anything the competition had to offer, and because it is a self-learning system, there was minimal implementation effort to boot, which is why we chose Mindbreeze. The success rate in our production operation/live-system is currently between 85 % and 95 %“

## Facts and Functionalities:

- 25.000 input entries per day
- Multiple input channels
- Accuracy rate of over 85 %
- Self-learning system with about 60,000 training documents
- Data extraction of more than 20 metadata in 138 categories of documents

# Oberbank uses Mindbreeze

# Oberbank

## 3 Banken Gruppe

### Facts and Functionalities:

- Intuitive User Interface
- Search possibilities in overlapping data sources, cross-national or country-specific search results (five countries)
- Short implementation time
- 32,000 queries a day within the first four months
- 2,000 employees

Bettina Nigl

Organizational Development, Strategy and Process Management



„Since implementing the intelligent search solution from Mindbreeze, our employees are able to find the information relevant for them, quickly and efficiently. By seamlessly integrating into the Intranet, even country specific information from multiple data sources can be accessed with a single query. This makes work easier and saves time.

# Important Sources for you

- Mindbreeze Website
- Mindbreeze Help Site
- Mindbreeze FAQ
- Mindbreeze Developer
- Social Media
  - Twitter
  - Facebook



IC27 Property AG

IC27 Property AG

IC27

IC27 Property AG

IC27

IC27 Property AG

Sitz: Wien, Stammkapital 85 Mio.



# Web connector

# Choose which pages to index

- Crawling Root(s)
- URL Exclude Pattern
  - Pages are not downloaded
  - No link following
  - Example: Javascript, CSS, ...
- Exclude URLs from Filtering
  - Pages are downloaded
  - Link following
  - Examples: product listings, blog categories, ...
- Exclude Tags From Content:
  - Remove elements from content
  - Examples:
    - Header, Footer, ...
    - if content area cannot be matched

# Sitemap

- Allows for efficient delta indexing
- Short index runs
- Short interval

# Metadata

- **XPath** + Entity Recognition
- **XPath** examples:
  - `//div[@id='content']`
  - `//div[@class='breadcrumbs']//a`
  - `//div[contains(@class, 'breadcrumbs')]//a`
- Test in Chromium Browser using `$x("<XPath>")`
  - **Warning:** the browser executes JavaScript, the Filter Plugin does not

# Metadata

- **Title:** only the first matching element is used
  - In document order
  - Default: h1, title, file name
- **Content:**
  - Every matching element

# Metadata

- **mes:thumbnailurl** => Type: Url, for instance //img/@src
- **breadcrumbs**
- **mes:date** => Typ: Date
  - Format: 3. Jänner 2015 => d. MMMM yyyy&de-AT
  - Format: 3. Januar 2015 => d. MMMM yyyy&de-DE
  - Java SimpleDateFormat

# Best Practices

- Exclude elements that are contained on every page
  - Menus
  - Footer
  - Header
- Use breadcrumbs
  - If they are implemented
  - Otherwise active menu entries

# Training: Configuration

- **Crawling Root:** <https://dribbble.com>
- **URL Regex:** `https://dribbble.com(/shots/.*)?`
- **URL Exclude Pattern:** `.*/rebounds`
- **Maximum Link Depth:** 1
- **URLs Excluded From Filtering:** `https://dribbble.com/?`

# Training: Configuration

- **Name:** Author
- **XPath:** //\*[contains(@class, 'attribution')]/\*[@rel='contact']
- **Format:** String

# Training: Configuration

- **Name:** likes
- **XPath:** normalize-space(substring-before(//\*[contains(@class, 'likes-count')]), 'likes')
- **Format:** Number

# Training: Configuration

- **Name:** views
- **XPath:** normalize-space(substring-before(//\*[contains(@class, 'views-count')], 'views'))
- **Format:** Number

# Training: Configuration

- **Name:** colors
- **XPath:** //\*[contains(@class, 'color-chips')]/a
- **Format:** String

# Training: Configuration

- **Name:** mes:date
- **XPath:** //\*[@class='shot-byline-date']//a
- **Format:** Date
- **Format Options:** MMM d, yyyy

# Training: Configuration

- **Name:** mesthumbnailurl
- **XPath:** //\*[@class='the-shot']/img/@src
- **Format:** Url

# Google on/of

```
<!--googleoff: all-->
```

I do not want to index this content

```
<!--googleon: all-->
```

Thats what I want

```
<!--googleoff: all-->
```

Please Ignore the rest

# Web Connector: Extract the main content of HTML sites

Crawling sites such as news sites often indexes useless content like menus or footers.

Now you can enable an alternative extraction mode that uses heuristics to detect only useful main content.

→ **You do not need to define extensive XPath rules anymore**

Documentation : <https://help.mindbreeze.com/en/?topic=doc/Configuration---Web-Connector/index.htm#extract-main-content-with-alternative-filter-mode>

# Web Connector: Extract the main content of HTML sites

**Global Filter Plugin Properties**

FilterPlugin.JerichoWithThumbnails

Custom Plugin Properties

priority  



Setup

Use Boilerpipe Extractor  Allowed Values: Article

Ignore Empty Tags Pattern  Regular expression for matching html tags that should be removed if content is empty. (e.g. ^(

# Search



MINDBREEZE®  
ILLUMINATING INFORMATION

# Training

- <https://trainX/apps/client>

# Components of the client

- Restriction
- Search
- Facets
- Context actions
- Notifications

# Query language

# Query Language

- [https://www.mindbreeze.com/Cheat\\_Sheet.html](https://www.mindbreeze.com/Cheat_Sheet.html)
- Case insensitive
- **Sof**
  - Starts of words with 3 letters
  - Whole words
  - Part of title with 3 letters
- Hits: **soft**, **Software**, im Titel auch: **Microsoft**

# Query Language

- **mindbreeze ins**
  - Both terms must occur
  - Order does not matter
- Hits: **Mindbreeze**... **InSpir**e, **insurance** ... **Mindbreeze**

# Query Language

- Quotes: “**mindbreeze inspire**”

Query for exact words and phrases

Hits: The European Enterprise Search Appliance | **Mindbreeze InSpire**

- **blog extension:html**

All html documents that contain blog

Hits: <https://www.mindbreeze.com/blog/search-information-access-as-easy-as-1-2-3.html>... **blog**

# Query Language

- “insurance” **AND** “classify”

Hits: Companies in the **insurance** industry don’t...and can automatically **classify** it

- (“insurance” **OR** “pattern”) **AND** “classify”

Hits:

Companies in the **insurance** industry don’t...and can automatically **classify** it

Classifying by identifying patterns

# Query Language

- **perfect NEAR service**

Words must be in short distance

Hits: **Perfect** community **service**

- **service NOT blog**

Documents must not contain blog

# Query Language

- (a AND b) OR (c AND d)

Precendence without paratheses: NEAR, NOT, AND, OR

- **content:2011 TO 2013**
- **mes:size:[1KB TO 4KB]**

Ranges with units

# Query Language

- **mes:date:[2015-01-01 TO 2015-12-31]**

date range

- **(url:blog^2.0 OR Mindbreeze^0.5) AND "service"**

Boost blog matches by a factor of 2 and negative boost Mindbreeze by factor 0.5

# Query Language

- **title:Integration**      ...**metadata,value**

all Metadata <metadata>:<value>

Name	Metadata	Description	Availability
Name	title	Query for title	All connectors
Extension	extension	Query for extension	All connectors
Directory	directory	Query for directory	Filesystem, Exchange
Subject	subject	Query for subject	Exchange

# Query Language

- **title:Integration from:bauernf extension:doc**

combinable

Name	Metadata	Description	Availability
From	from	Query for senders	Exchange
To	to	Query for recipients	Exchange
Address	url	Query for URL of a document	Web
	content	Query for content	All connectors

# Client Service

- Query Engines to search
- HTTP(s) Port: 443
- URL of Help-Website: tailored page or  
[https://www.mindbreeze.com/Cheat\\_Sheet.html](https://www.mindbreeze.com/Cheat_Sheet.html)
- Language

# Find out existing Metadata

- „Export“-button at the clientservice in combination with categorydescriptors
- „documents“ Servlet at the unrestricted privileged servlets
  - **Find out docid:**  
<https://inspiretrain:8443/index/<Indexexport>/find>
  - **Find out metadata:**  
<https://inspiretrain:8443/index/<Indexexport>/documents>

# How to start: Know your use cases

- Which data sources?
  - Folio
  - Microsoft Exchange
  - Filesystem
  - Share Point (2007-2013)
  - ...

# Preconditions

- Service user must have full-read-access to
  - File shares
  - Microsoft Exchange
  - Microsoft SharePoint
  - Fabasoft Folio
  - ...

# Preconditions

- More (Authentication,..)
  - Preparations

# Mindbreeze InSpire – Search Appliance

- 500K small Appliance, big Appliance, more than one big Appliance
- 1M
- 2M
- 5M
- 10M
- 20M,...

# Authorization

- AuthorizedWeb vs. Web
- CN of users or groups with sitemap or url-backreferences

# Semantics

# Semantics

- Entity Recognition
  - Recognizes patterns
  - Partial Index rebuild necessary (reinversion)
  - Add custom metadata
  - Use existing metadata as foundation
  - Use CategoryDescriptor and/or Information Pairing to display
  - E.g. product numbers, order numbers, dates

# Semantics

- Pattern Rules
- Examples
  - `lang=/ (de|en) /.`
  - `langInTitle=/-/ lang /$/.`
  - If Rule Matches: `langInTitle`
  - Name: shortlang => add to Aggregated Metadata Keys as well
  - Value: `{{lang}}`
  - Format: String
  - In Existing Metadata: title
- `Date=/\d\d.\d\d.\d\d\d\d/.`
- `DateString=/am / Date.`

# Metadata Definition

- **If Rule Matches** – definition is used if Pattern Rule matches
- **Name** – Name for the metadata
- **Value** – Mustache template for constructing the value, use names of rules
  - e.g. {{Date}}
- **Format** – Data type
- **Format Options** – Date format
- **Locale** – e.g. for dates
- **In Existing Metadata** – Only apply if rule matches in existing metadata

# CSV Transformation

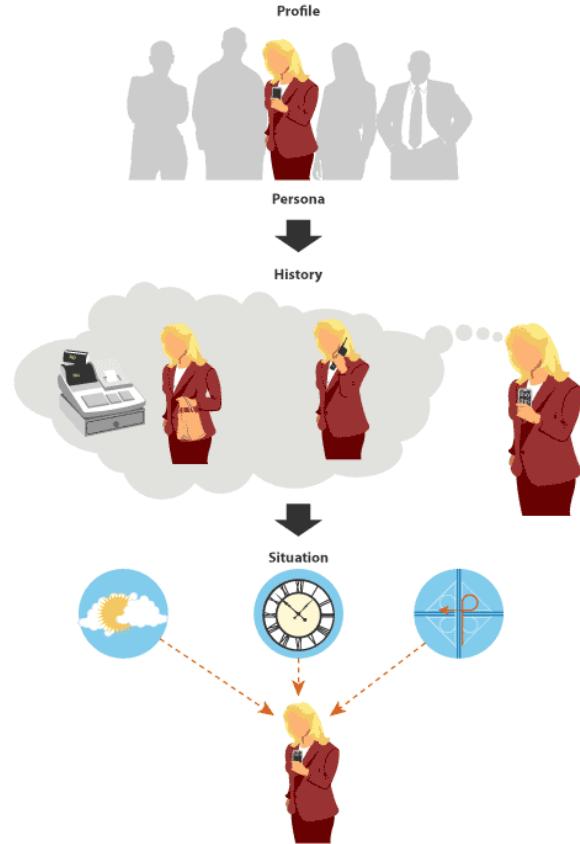
- Map values to different values
- Example
  - **CSV File Path:** /data/transform/languages.csv
  - **If Expression Matches:** {{ShortName}}
  - **In Property:** shortlang
  - **Name:** Language => add to Aggregated Metadata Keys as well
  - **Value:** {{FullName}}

# Search Apps

# The context is crucial

## Contextualization

- Location-dependent content
- Personalized content
- Consideration of time/meetings
- Considering my Input device and the Available functions
- Consideration of form factors



# Search Apps

- Tailored to users tasks
- Simple templates
- Implement search everywhere HTML is possible, e.g.
  - Microsoft SharePoint
  - Website
  - Mobile App
  - ...

# Editor

- <Client Service URL>/apps/editor
- Generates Snippet
  - Copy & Paste
  - Adaptable
  - Save

# Mustache Templates

# Highlighting

`{{{xyz}}}` display property xyz including highlighting, try to find best representation

`{{xyz}}` display property xyz without highlighting

|f

{ {#xyz? } }...{ {/xyz? } } if xyz defined

{ {^xyz? } }...{ {/xyz? } } if xyz not defined

{ {#xyz.abc? } }...{ {/xyz.abc? } } if the value of xzy is abc

# Loops

```
{ {#xyz} }...{ {/xyz} } iterate xyz
```

# Mustache

```
{{{xyz}}} display property xyz including highlighting, try to find best representation
{{xyz}} display property xyz without highlighting
{{#xyz?}}...{{/xyz?}} if xyz defined
{{^xyz?}}...{{/xyz?}} if xyz not defined
{{#xyz.abc?}}...{{/xyz.abc?}} if the value of xyz is abc
{{#xyz}}...{{/xyz}} iterate xyz
```

# SearchApp Styling

# CSS Framework

- Bootstrap 2.2.2 <http://getbootstrap.com/2.2.2/>

# Main Structure

<http://getbootstrap.com/2.2.2/scaffolding.html#fluidGridSystem>

.container .row-fluid

.span9

.span3

# Search Field

form.search-field

input

button

# Results

media object component (<http://getbootstrap.com/2.2.2/components.html#media>):

.media

.media-heading

h3

.media-object

.media-body

# Filters

Stacked pills-component (<http://getbootstrap.com/2.2.2/components.html#navs>):

.nav.nav-stacked.nav-pills

The header of each filter is an h3 element.

# Collapsible

- ARIA role tablist + multiselectable (<http://www.w3.org/TR/wai-aria/roles#tablist>)
- Title collapsed

```
.mb-role[role=tablist][aria-multiselectable=true] [role=tab]
```

- Title opened

```
.mb-role[role=tablist][aria-multiselectable=true] [role=tab][aria-expanded=true]
```

# Tabs

Basic Navbar component (<http://getbootstrap.com/2.2.2/components.html#navbar>)

.navbar .nav

# Header

Basic Navbar component (<http://getbootstrap.com/2.2.2/components.html#navbar>)

.mb-header.navbar.navbar-inverse .mb-top-menu .nav

.mb-computing is added while searching

```
.mb-progress-indicator {
```

```
    display: none;
```

```
}
```

```
.mb-computing .mb-progress-indicator {
```

```
    display: block;
```

```
}
```

# SearchApp Widgets

# applists

## Settings

### Mindbreeze

- F Location Austria**  
The Fabasoft Cloud is the European business cloud for secure global collaboration between businesses.
- F Location Germany**  
The Fabasoft Cloud is the European business cloud for secure global collaboration between businesses.
- W Wikipedia (english)**  
English articles of Wikipedia. Wikipedia is a free, web-based, collaborative, multilingual encyclopedia project supported by the non-profit Wikimedia Foundation.

### Custom Sources

Web Client URL

breadcrumb

**Refinement**

Living Room

collect

### Collected Results

-  [Manual\\_MLPA\\_DemoData](#) ✖
-  [24\\_Demonstrator\\_Talend.pdf](#) ✖
-  [Back.png](#) ✖
-  [Empty](#)

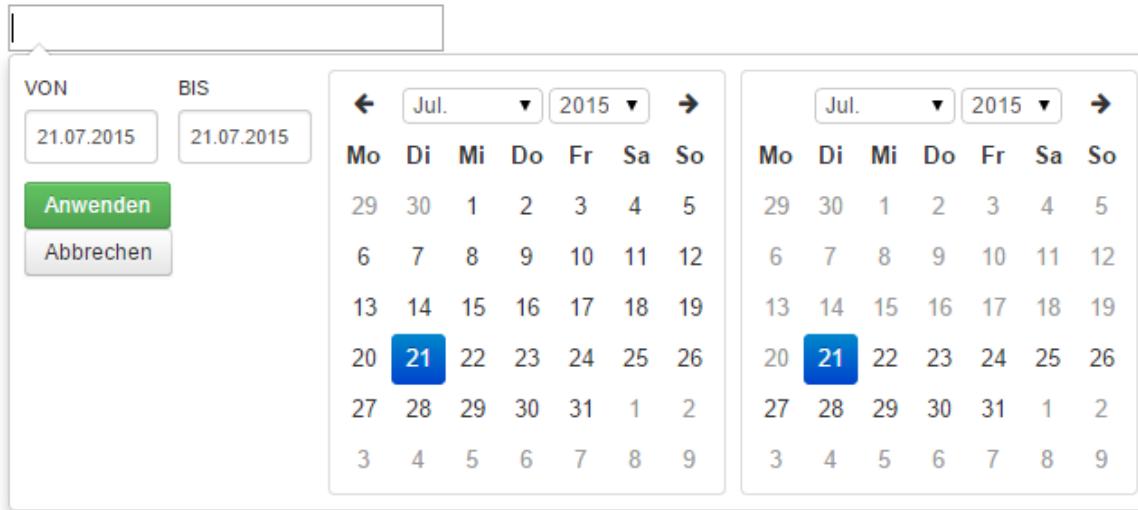
# constraints

- Refinement**
- All
  -  E-Mail
  -  Attachment
  -  Calendar
  -  Contact
  -  Task
  -  Note
  -  Post

# datasources

- Sources
- All
  -  msfile
  -  dribbble
  -  Web

# inputdate



feedbackbutton

feedback

# Activate the feedbackbutton at the clientservice

Fabasoft app.telemetry Web API URL

<http://localhost/web.telemetry>

# filteredfacets

Extension	✖
<input checked="" type="checkbox"/> All	
<input type="checkbox"/> png	2634
<input type="checkbox"/> jpg	821
<input type="checkbox"/> gif	564
<input type="checkbox"/> pdf	490
<input type="checkbox"/> docx	309

Search

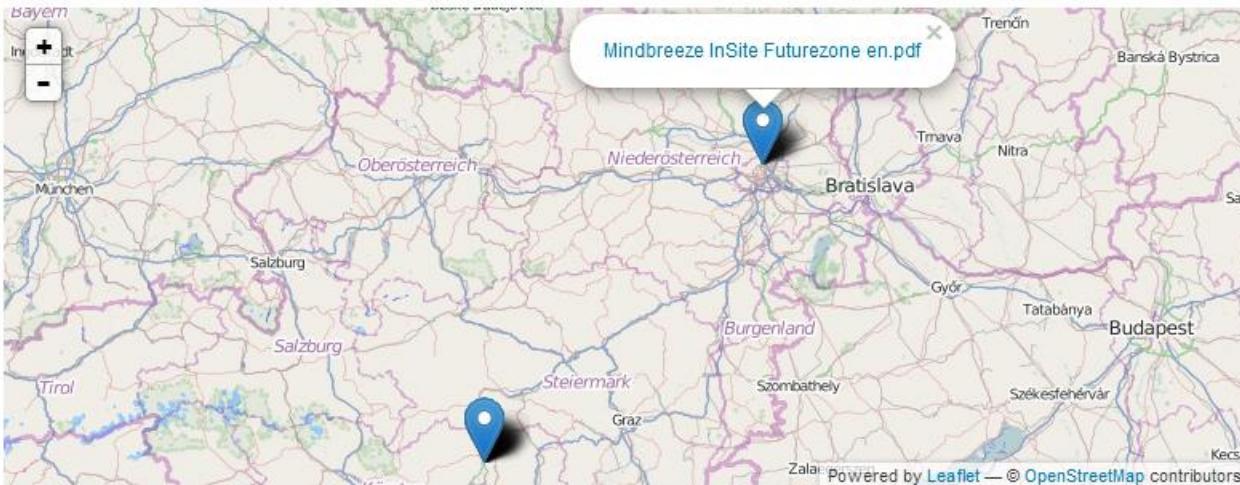
Type	✖
<input type="checkbox"/> Document	41
<input type="checkbox"/> UserProfile	15
<input type="checkbox"/> Wiki Page	5

Search

# filteredfacet



# map

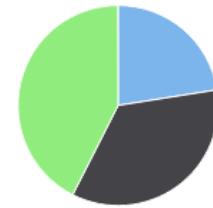


# pagination

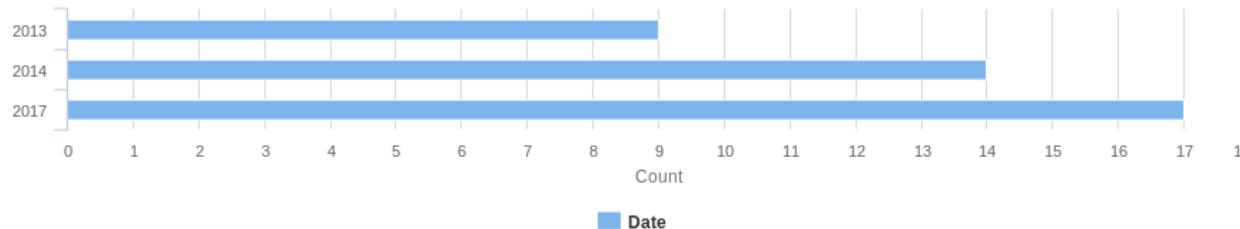


# charts

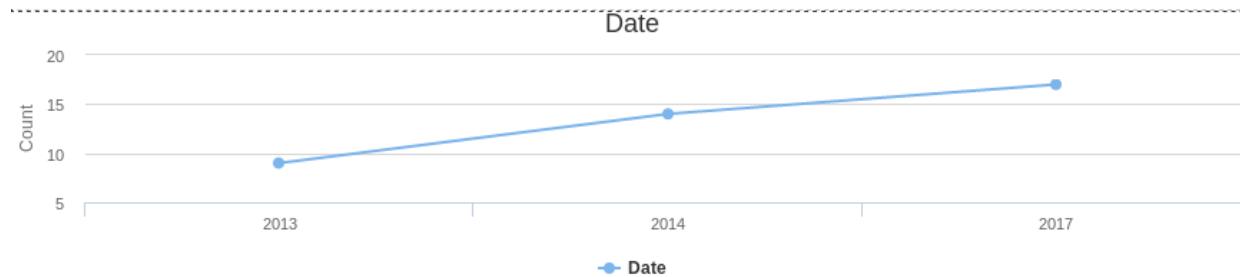
Date



Date



Date



Date

# preview



Datum: 22.10.13 09:42

Die futurezone.at zählt mit über 1 Million Visits pro Monat zu den führenden Technologie-Newsportalen in Österreich. Themen aus Politik, Wirtschaft und IT werden kompakt aufbereitet und den Leserinnen und Lesern zur Verfügung gestellt. Die Inhalte ändern sich mehrmals am Tag oft sogar mehrmals pro Stunde. Permanente Aktualität der Suchergebnisse ist damit ein wesentlicher Erfolgsfaktor. Um sich von den Mitbewerbern mit einer professionellen Suche abzuheben, wurden marktführende Suchlösungen evaluiert. Es wurde eine Lösung gesucht, die nicht nur benutzertreffend ist, sondern den Leserinnen und Lesern der futurezone.at auch einen Mehrwert im Vergleich zur eingesetzten Suche bietet.

## Aufgabenstellung

Das Portal nutzte ursprünglich Google als Suche auf der Website. Diese lieferte zwar Treffer aber oft ohne erwarteten Mehrwert für den Leser. Die einfache Auflistung von Suchergebnissen war der futurezone.at als Leserservice zu wenig. Daher entschied das Management Mindbreeze InSite zu implementieren, um den Website-Besuchern einen Mehrwert bieten zu können und den Leserservice zu steigern.

„Als österreichisches Technologie-Portal

freut es mich, eine österreichische Suche  
auf der futurezone integrieren zu können.

Es passt perfekt zu unserem Konzept,

vor allem österreichische Ideen und

Firmen vor den Vorhang zu bitten. Mit

Mindbreeze haben wir nun einen der  
führenden Suchmaschinen-Entwickler als

# results



## [Mindbreeze 3.0.pdf](#)

[Open](#) - [Download](#) - [Preview](#) - [Collect](#)

1/29/08 9:23 PM - Directory: Handbuch - Folder - Size: 1.29 MB - Extension: pdf

www.mindbreeze.com KNOWLEDGE IN...meet this challenge **Mindbreeze** Enterprise Search enables...software solution. The **Mindbreeze** Enterprise Search Platform



## [MINDBREEZE.doc](#)

[Open](#) - [Download](#) - [Preview](#) - [Collect](#)

2/26/08 4:56 PM - Directory: Marketing - Size: 46 kB - Extension: doc - Title: **MINDBREEZE** - KNOWLEDGE IN A MATTER...

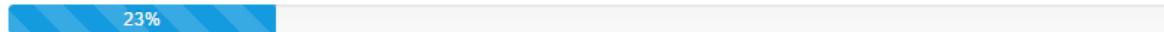
Author: Sabrina - Version: 3 - Pages: 5 - Words: 1594 - Characters: 10047

**MINDBREEZE** - KNOWLEDGE IN...zu meistern, unterstützt **Mindbreeze** Enterprise Search Firmen...zu organisieren. Die **Mindbreeze** Enterprise Search Plattform

## Mustache example: result

```
<script type="text/x-mustache-template">
  <h3>{{icon}} {{title}}</h3>
  <p>
    {{content}}
  </p>
</script>
```

resultsprogress



# savedsearches

## Gespeicherte Suchen

Speichern Sie Ihre Suche mit  .

[Reports letzte Woche](#) 

[Meine Dokumente](#) 



**MINDBREEZE**<sup>®</sup>  
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searchform



searchinfo

No results found

Did you mean: [pdf](#)

sortswitch

Sortieren nach

Relevanz



↓<sup>A</sup><sub>Z</sub>

↓<sup>Z</sup><sub>A</sub>

# stack

20 Ergebnisse

PDF-Dokumente

Vorschau Mindbreeze InSite Computerwelt de.pdf



Schließen

suggest



The image shows a search interface with a dark header bar. On the left is a yellow circular icon with a white 'M' and the text 'Mindbreeze'. To its right is a search bar containing the text 'Mindbreeze In Site'. On the far right of the header is a magnifying glass icon. Below the header is a list of search suggestions in a white box with a thin black border. The suggestions are:

- Mindbreeze In Site Computerwelt de.pdf
- Mindbreeze In Site Computerwelt en.pdf
- Mindbreeze In Site Futurezone de.pdf
- Mindbreeze In Site Futurezone en.pdf

# customized suggests

Suggest Settings	
Enable Suggesting of Similar Queries	<input type="checkbox"/>
Enable Suggesting from CSV File	<input type="checkbox"/>
Enable suggestions of Tabs	<input checked="" type="checkbox"/>
Enable Suggestions of Document Property	<input checked="" type="checkbox"/>
Enable Suggestions of Recent Queries	<input type="checkbox"/>

Enable suggestions of similar queries from the App.Telemetry database.

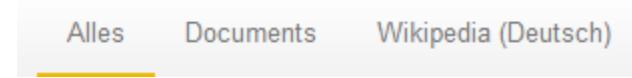
Enable Suggestions of Concepts from a CSV File.

Enable Suggestions of Tabs to search for the current search term in all available tabs.

Enable Suggestions of Document Property to provide suggestions from metadata.

Enable Suggestions of Recent Queries to provide suggestions from the last searches.

# tabs



# timeline

			<ul style="list-style-type: none"><li>● Mindbreeze InSpire Treibacher de.pdf</li><li>● Fabasoft Mindbreeze Enterprise JBA de.pdf</li><li>● Fabasoft Mindbreeze Enterprise JBA en.pdf</li><li>● Mindbreeze InSite Futurezone de.pdf</li><li>● Mindbreeze InSite Futurezone en.pdf</li><li>● Mindbreeze InSpire Ferngas OOE de.pdf</li><li>● Mindbreeze InSpire Ferngas OOE en.pdf</li><li>● Mindbreeze InSite Computerwelt en.pdf</li></ul>
	Okt 2013	Nov	Dez

# suggestlist

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 Linz

Everything Image Gallery People +

697 Results

**MES Professional Search from Linz.pdf**  
Open - Download - Open Folder - Preview - Collect  
5/5/09 3:27 PM - Directory: Press Release - Size: 1.23 MB - File type: pdf  
**Linz** An innovative Business Search...Gartner represents the Company from **Linz**

---

**Top250IndustryCompanies.xlsx**  
Open - Download - Open Folder - Preview - Collect  
7/29/13 4:41 PM - Directory: Dokumente - Size: 65.56 kB - File type: xlsx - Author: Mustermann, Max  
3 4020 **Linz** 050304 15 info...3 4020 **Linz** 0732/9000-0..6 4010 **Linz** 0732 771933-0...Trust Holding  
Aktiengesellschaft **LINZ** AG für Energie...151 4021 **Linz** 0732 3400 office

---

**Popular Searches**

Linz  
Release Notes  
Marketing Presentation  
Software Documentation

view

```
<div data-template="view" data-count="5">...</div>
```

```
<div data-template="view" data-count="5" data-  
constraint="extension:pdf">...</div>
```

# Category

- **Category** – for every data source type  
(EMC Documentum, Microsoft Exchange, ...)
- **CategoryInstance** – for every data source  
(\\MYSERVER\\SHARE, ...)
- **CategoryClass** – categories of documents  
(Email, Contact, Appointment, ...)

# Documentation and Support

- <http://help.mindbreeze.com>
- <https://tickets.mindbreeze.com>
- [answers.mindbreeze.com](http://answers.mindbreeze.com)
- [developer.mindbreeze.com](http://developer.mindbreeze.com)

# Contact & News

- Contact
  - [support@fabasoft.com](mailto:support@fabasoft.com) /
  - [info@mindbreeze.com](mailto:info@mindbreeze.com)
- News
  - [blog.mindbreeze.com](http://blog.mindbreeze.com)
  - [twitter.com/mindbreeze](http://twitter.com/mindbreeze)
  - [facebook.com/mindbreeze](http://facebook.com/mindbreeze)
  - [youtube.com/Mindbreeze](http://youtube.com/Mindbreeze)
  - [answers.mindbreeze.com](http://answers.mindbreeze.com)



# Please provide Feedback

- URL in teamroom

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