



Search Author Online

by Zhan Xinyu, Wang Zhongye, Xie Yichen, Yue Ye

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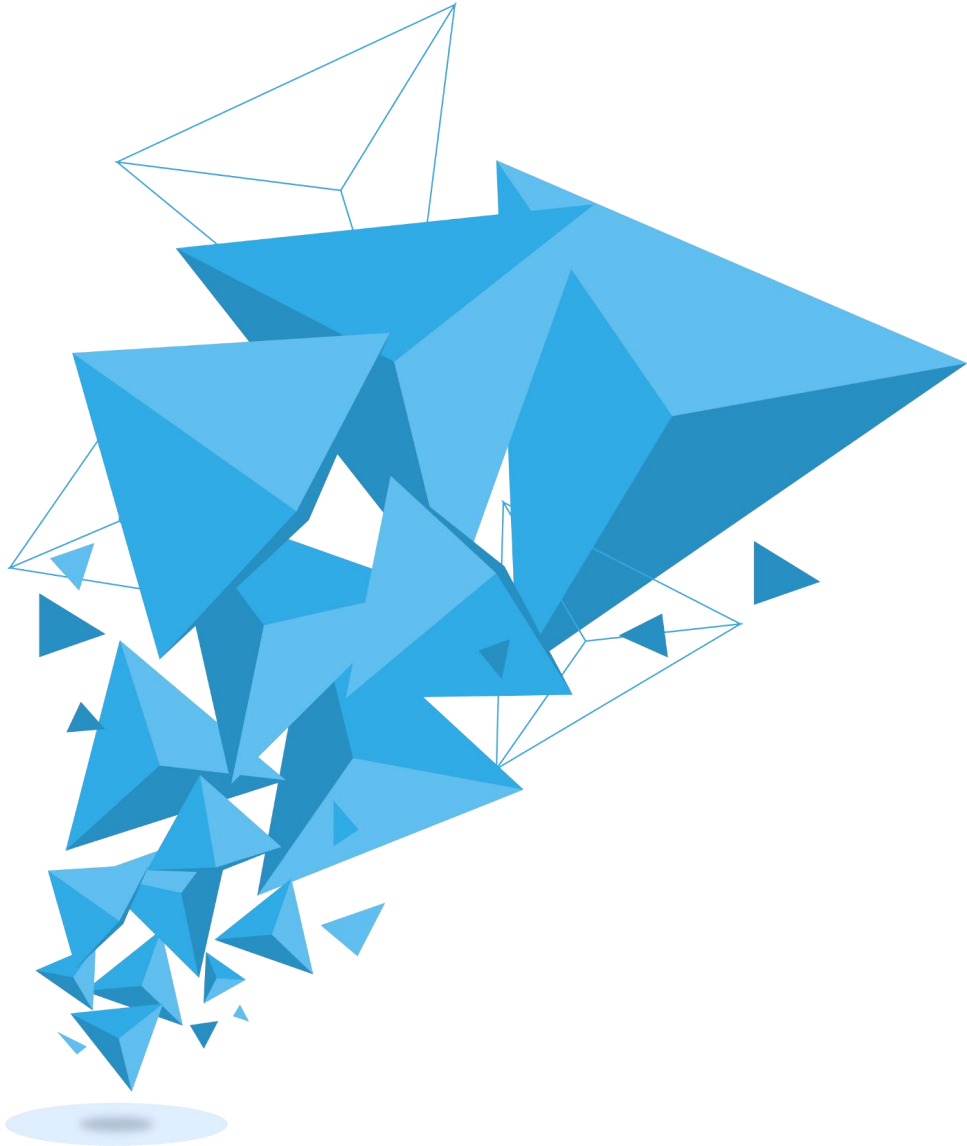
01 Introduction

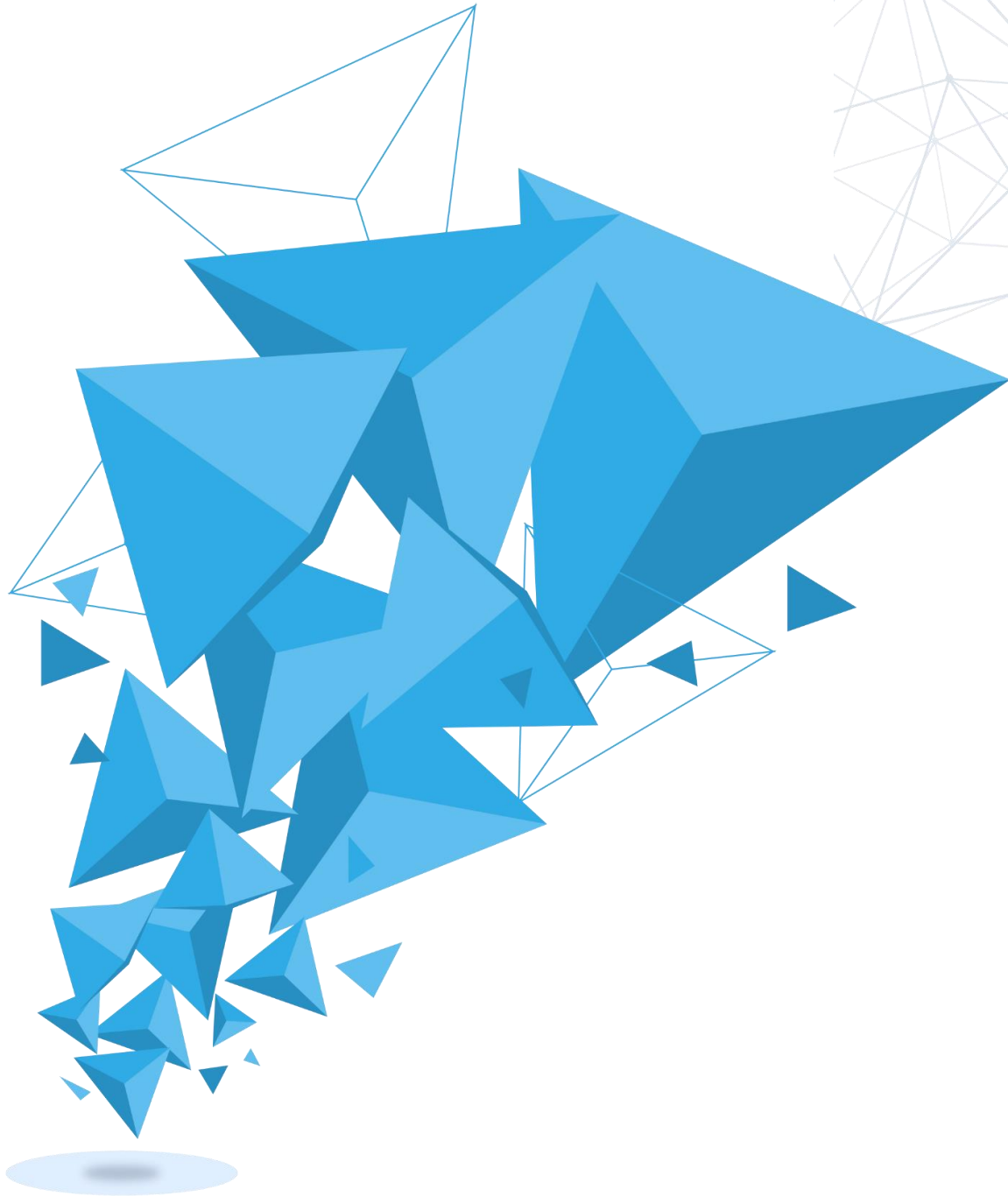
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05 Label &
Recommendation





PART 01

Introduction

Presented by
Yue Ye

Introduction

What is our website capable of ?

Search on all **four keys**: author name, paper title, affiliation name, conference name

Visualize various information about the item in the stats pages

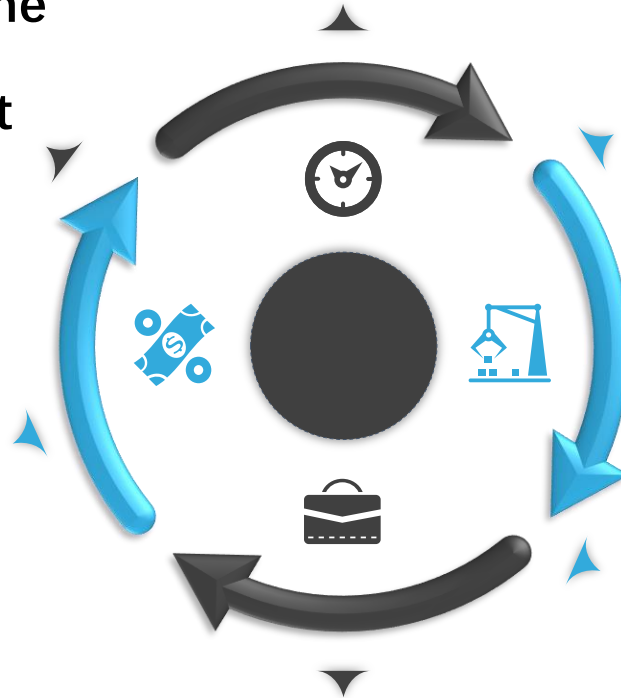
Apply **global search** and accept users' command search

Provide various **information** relevant to the item list pages

Label papers with their potential **key words**

Interactive UI designs, **cool animations** and pleasing color schemes

Recommend similar papers to users in paper's stats pages with specific reasons



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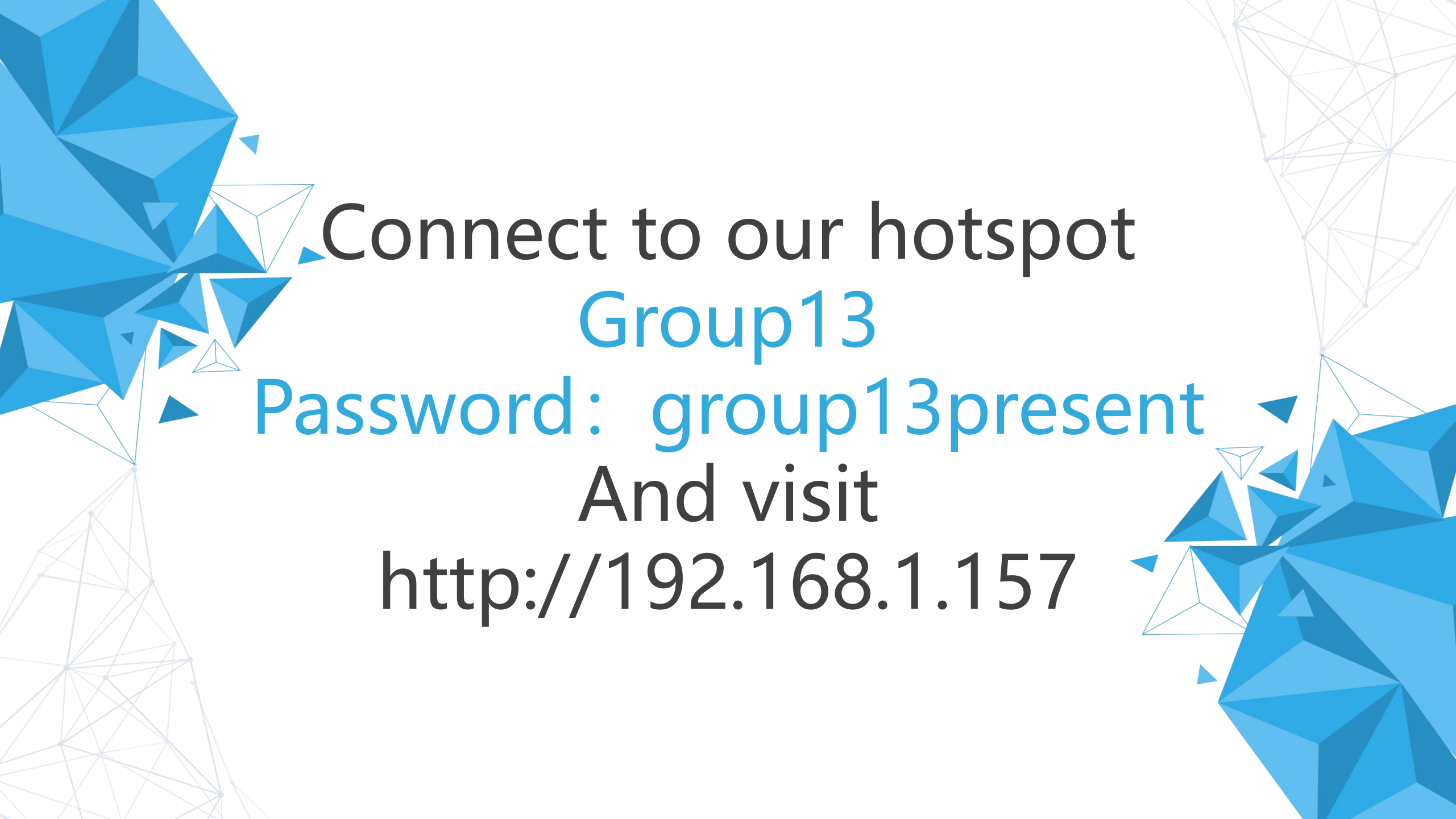
04 Visualization

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PART 02

Guideline
Presented by
Wang Zhongye



▶ Connect to our hotspot
Group13
▶ Password: group13present
And visit
<http://192.168.1.157>

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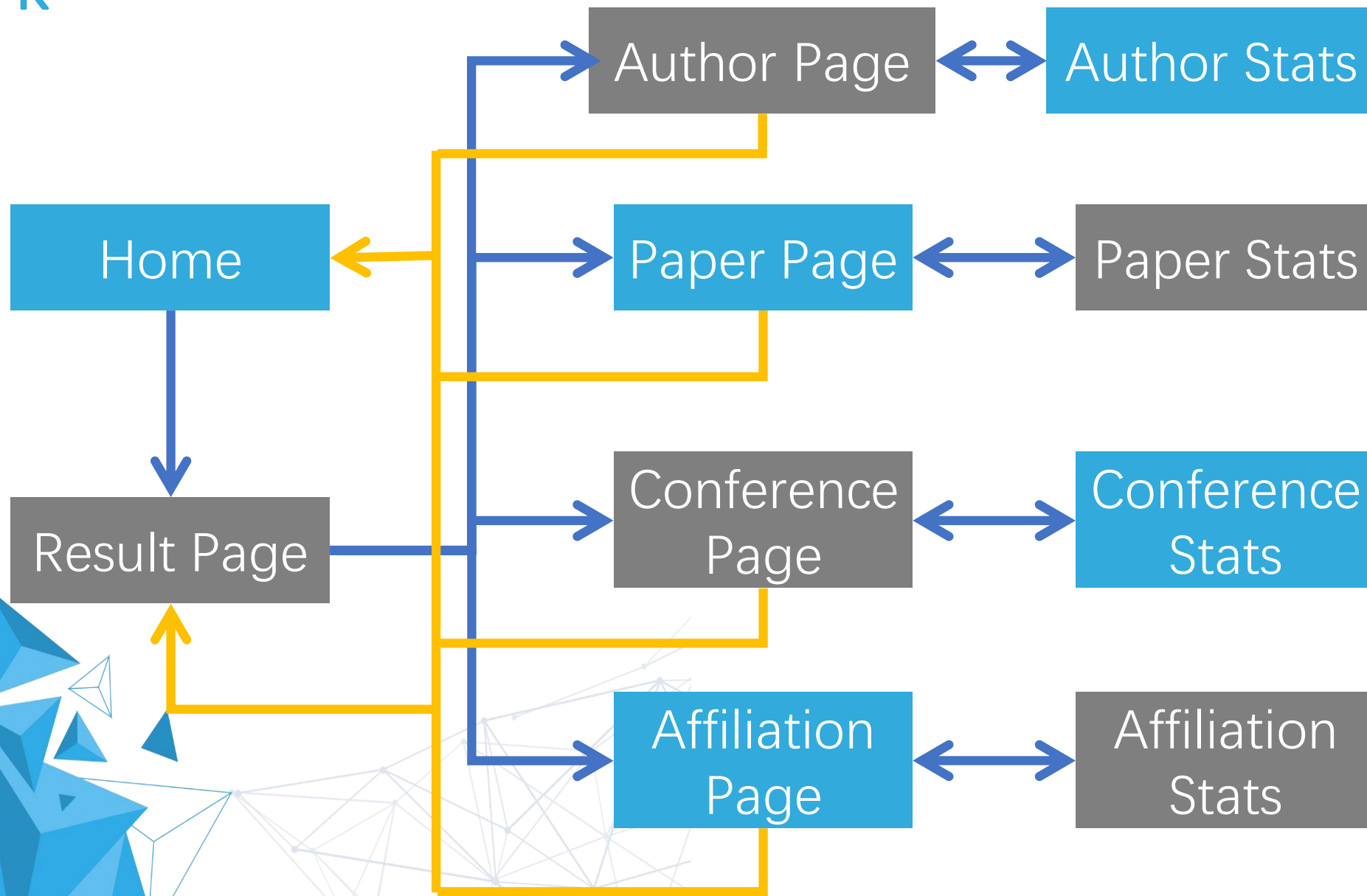
PART 03

Framework

Presented by
Zhan Xinyu

Framework

Our Web Pages



Framework

Project

Application

Asset

Controllers

Models

Views

CSS

JS

Autocomplete.php

Label_model.php

Lab

Multi_pagin

Shared

Templates

Lab

Lab

Label.php

Lab_model.php

Affi (directory)

Dyn_pagin.php

Navbar.topfix.php

Footer.php

Author

Home

Themes

Home

Shared

Lab.php

Visual_model.php

Author (directory)

Dyn_pagin_savevar.php

Pagin.bar.php

Header.php

Visual.css

Search_section_style.css

Theme.css

Animation.js

D3.layout.cloud.js

Pagin.php

Conference (directory)

Pagin.savebar.php

Home.php

Paper (directory)

Result.frame.php

Visual.css

Search_section_style.css

Theme.css

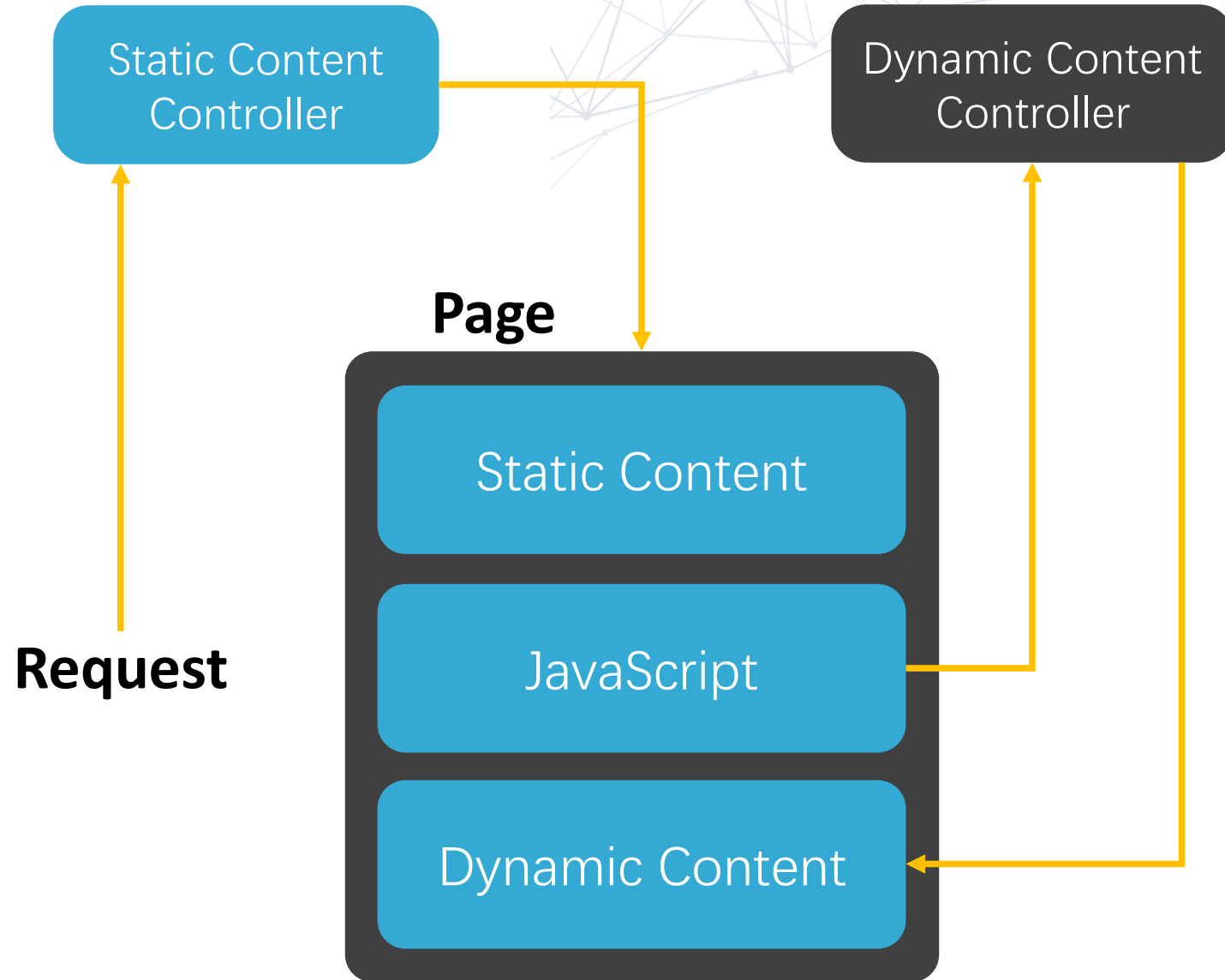
Autocomplete.js

Myplots.js

Pagin.js

Sidebar.js

Framework



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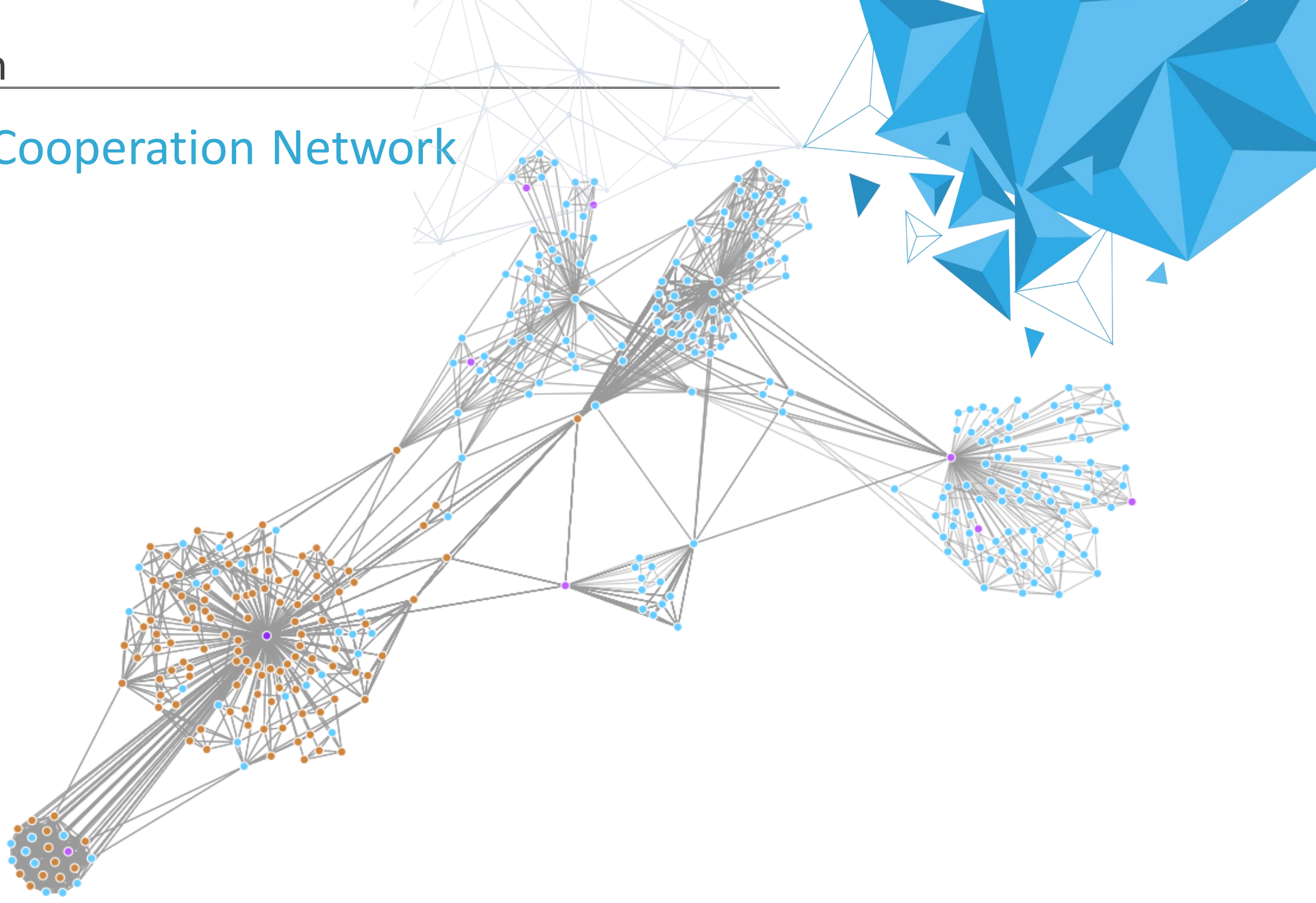


PART 04

Visualization
Presented by
Wang Zhongye

Visualization

Explorable Cooperation Network



Visualization

```
function updateChart(sourceFile) {
  d3.json(sourceFile, function(error, data) {
    // process the new data passed in
    .....

    if(updateSourcePrefix!=null)
      d3.selectAll("circle")
        .on("click", node_on_click);
    .....

  }

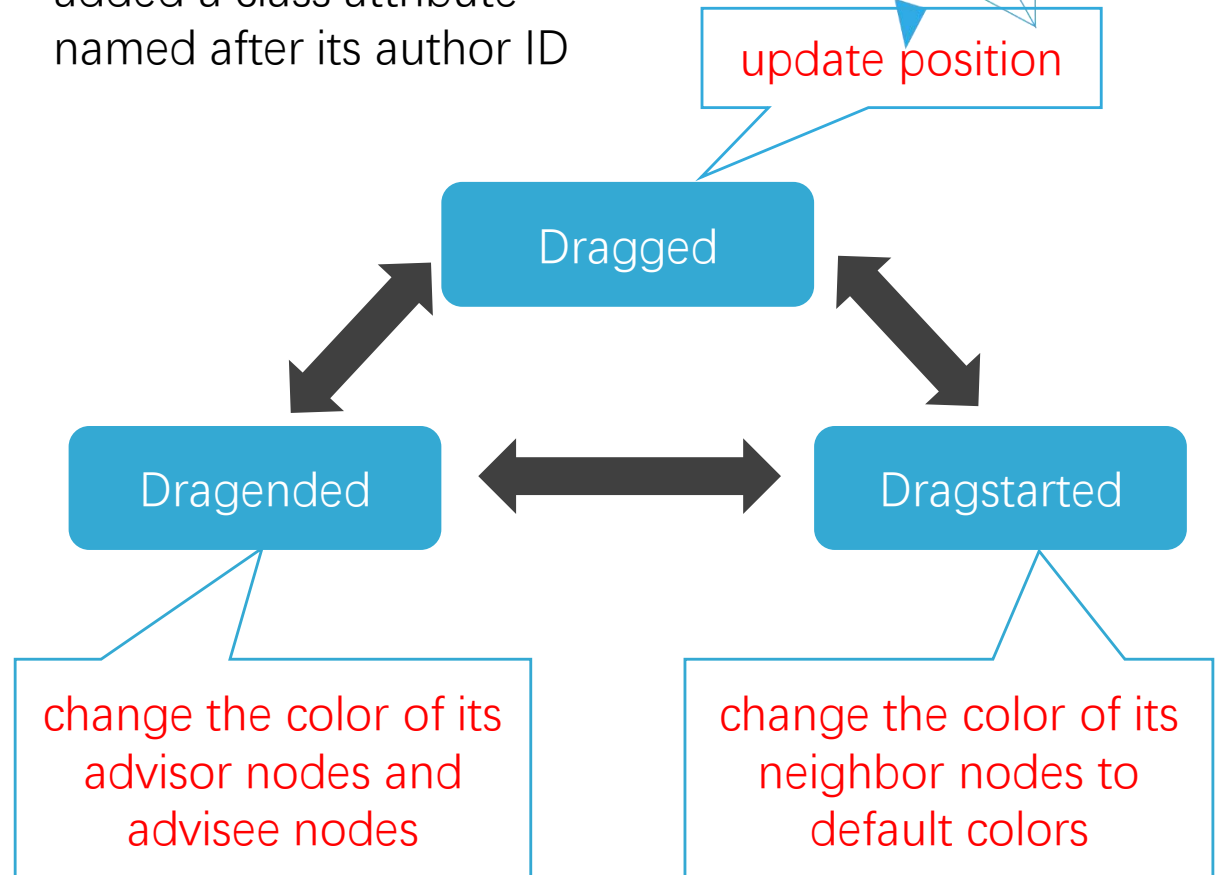
  updateChart(source);

  function node_on_click(d) {
    updateChart(updateSourcePrefix + d.id);
  }
}
```

How to add new nodes

How to respond to color change event

Each node has been added a class attribute named after its author ID



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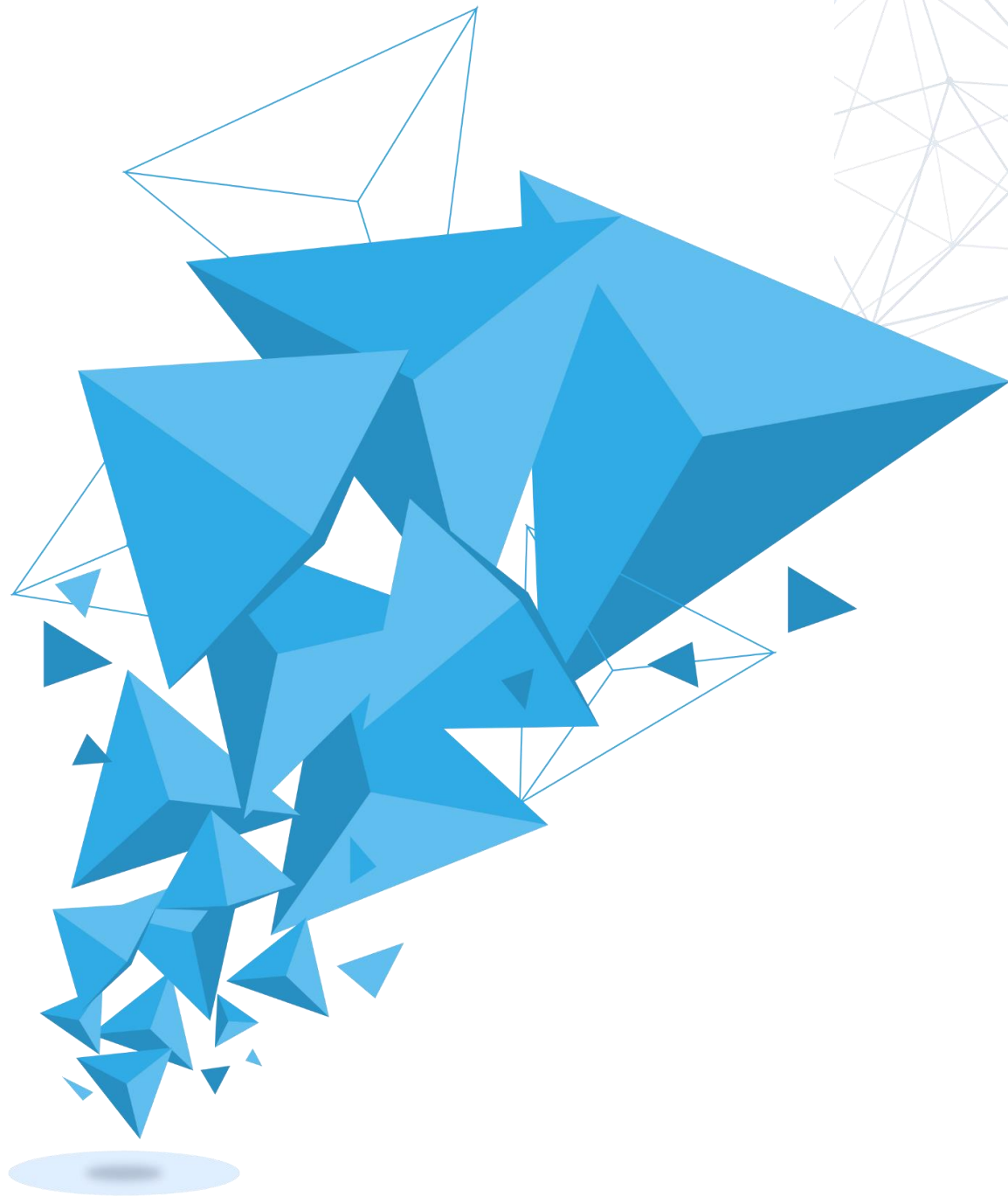
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PART 05

Label and Recommendation

Presented by
Xie Yichen

Label

We create two new databases:
Labels and PaperLabel

Label	Frequency
station control	1
station congestion	1
station challenges	1
station antenna	1
station aist	1
station	22
stating	5

Label	PaperID
speech training	00002E77
training systems	00002E77
lateral shapes	00002E77
shapes	00002E77
vocal tract	00002E77
tract	00002E77

Find the frequency of words:

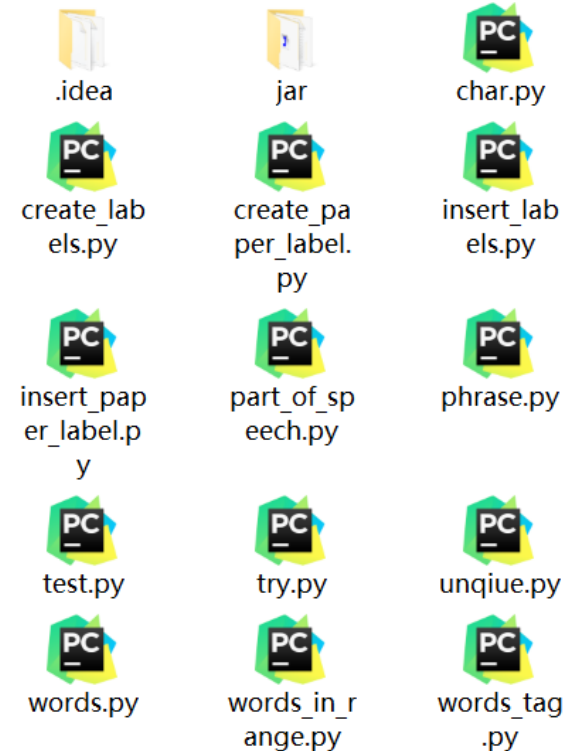
.....

a 20966
and 22583
of 27447
for 30268

Many meaningless words !

Distinguish meaningful words
by two ways:

1. Part of speech
2. Form two-words phrases



Label

NLTK(natural language toolkit) &Stanford NLP Group

```
from nltk.tag import StanfordPOSTagger
eng_tagger = StanfordPOSTagger(
    model_filename=r'jar\models\english-bidirectional-distsim.tagger',
    path_to_jar=r'jar\stanford-postagger.jar')
.....
res = eng_tagger.tag(titles)
```

Choose several specific part of speech:

Adjective: JJ, JJR, JJS

Noun: NN,NNS, NNP,NNPS

Adverb: RB,RBR,RBS

Verb: VB,VBD,VBG,VCN,VBZ

Phrases

For other meaningless adjectives and nouns,
We include them in phrase.

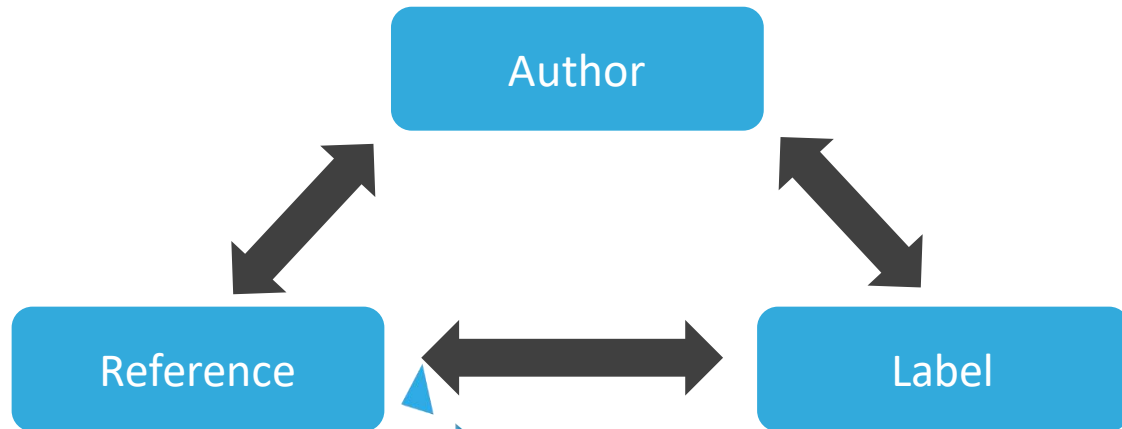
Judge by part of speech too

Specific combination of part of speech:
Such as NN_NN, JJ_NN, VB_NN.....



Recommendation

The recommendation is based on the combination of three factors:
Order by the similarity



We will show what the two papers share in common on the website.

Recommendation

Two Stage Language Models For Information Retrieval

Paper ID: 80E8E3FF - Venue: SIGIR - Published Year: 2002 - Times Cited: 33

We recommend this paper to you because:

It shares same coauthors: [Chengxiang Zhai](#), [John Lafferty](#).

It shares same references: [Relevance Based Language Models](#), [Improving Two Stage Ad Hoc Retrieval For Short Queries](#), [A Language Modeling Approach To Information Retrieval](#), [A Hidden Markov Model Information Retrieval System](#), [Document Language Models Query Models And Risk Minimization For Information Retrieval](#), [Information Retrieval As Statistical Translation](#), [Pivoted Document Length Normalization](#), [Pivoted Document Length Normalization](#).

It has a similarity score of 10.

The background features abstract geometric shapes in shades of blue and white. On the left and right sides, there are clusters of 3D-looking blue polyhedrons and wireframe structures. The central text is set against a plain white background.

THANK YOU