



# A Pluggable Work-bench for Creating Interactive IR Interfaces

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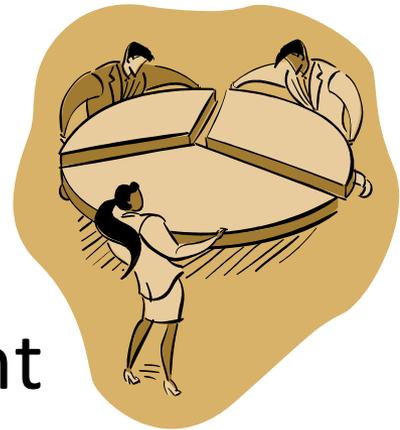
# Evaluating IR

- IR has benefited from sharing processes, software components, and evaluation methods



# Evaluating IIR

- Interactive IR has benefited less from this approach
  - Most experiments use bespoke processes
  - Most experiments use bespoke interfaces
- Makes it harder to compare experiment results
- Makes it harder to replicate experiments



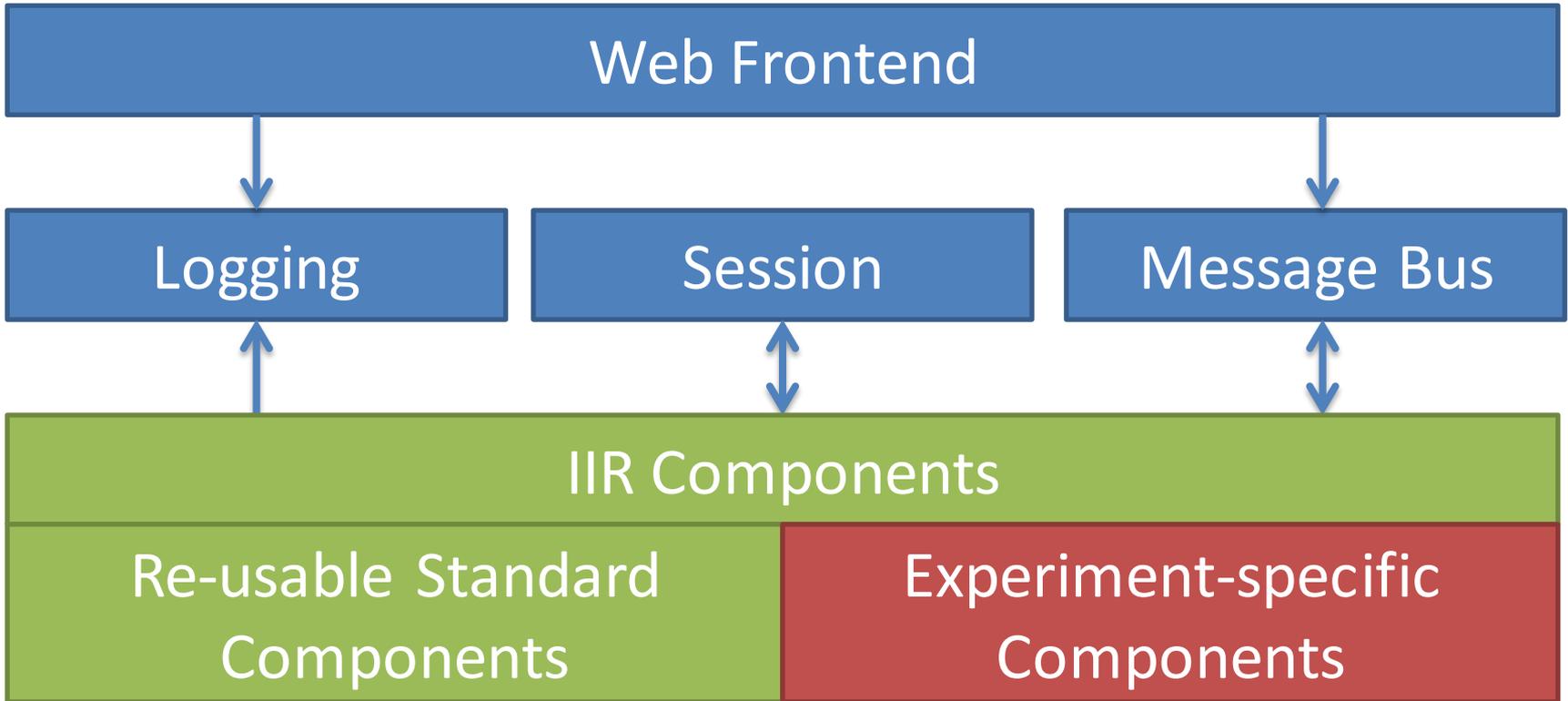
# Sharing?

- What can be done about this?



- We propose an IIR evaluation work-bench that allows for the re-use and sharing of IIR UI components

# PyIRE



# Advantages

- Reduce the resource requirement for setting up IIR experiments
  - Only need to implement / adapt those components that are the focus of the experiment
- Improve the comparability of IIR experiments
  - Component reuse reduces the number of influences on the experiment results
- Improve the reproducibility of IIR experiments
  - Experiment-specific components can easily be shared and re-used in comparative studies

# Does it work?

- CLEF CHiC Interactive Task UI

### Your Assignment

Exploring anything you wish using the Categories below or the Search box to the right until you are completely and utterly bored. When you find something interesting, add it to Bookbag.

### Search

Search

Alternatively you might want to search for [railway station](#).

### Results

Items 1 - 12 of 17,094 Go to page: [←](#) [1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [→](#)

 <p>Satolas Station</p>	 <p>Satolas Station</p>	 <p>Satolas Station</p>	 <p>Satolas Station</p>
 <p>Satolas Station</p>	 <p>Satolas Station</p>	 <p>Satolas Station</p> <span>Add to bookbag</span>	 <p>Satolas Station</p>
 <p>Satolas Station</p>	 <p>Aberdeen Station</p>	 <p>Aberdeen Station</p>	 <p>Railway Station</p>

Items 1 - 12 of 17,094 Go to page: [←](#) [1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [→](#)

### Category browser

- Agriculture (13283 items)
- Applied sciences (33748 items)
- Arts (14475 items)
- Belief (4495 items)
- Business (10885 items)
- Chronology (16050 items)
- Computers (228 items)
- Culture (45873 items)
- Education (5488 items)
- Environment (20885 items)
- Geography (32209 items)
- Health (9969 items)
- History (30083 items)
- Humanities (3596 items)
- Language (5929 items)
- Law (1239 items)
- Life (8193 items)
- Mathematics (791 items)
- Nature (15764 items)
- People (19609 items)
- Politics (25148 items)
- Science (3834 items)
- Society (87358 items)
- Technology (22533 items)

### Item details

Add to bookbag

#### View of Gopaldrug (Mysore), 22 March 1799

Pen-and-ink and water-colour drawing of Gopaldrug in Karnataka by Elisha Trapaud (c.1750-1828), 22 March 1799. Inscribed on the back in ink and pencil is: No.'11. Gopaul Droog. Mysore 22nd, March 1799.' Trapaud served with the Madras engineers between 1778 and 1828. He became a captain in 1784 and was appointed the Chief Engineer of Madras in 1793. He served in the Mysore Wars and was a good amateur actor. In 1788 he published a book of uncoloured aquatints titled 'Twenty Views of India'. This image is one of 15 drawings done in South India and England. Although only two of these drawings are signed by Trapaud, all were purchased at the same time, together with an engraving on the assault of Seringapatam inscribed: 'Capt. E. Trapaud, my Great Grandfather on my Mother's side, was at the storming of Seringapatam æt' his great grandson æt' Willoughby Briggs has his medal-given the action. Nina Macaulay.' It is not unreasonable to assume that all these sketches are by Trapaud.

### Book-bag

-  [The Bailey Guard Gate, Lucknow \(U.P.\)](#) (remove)  
Chosen because: collect it [\(change\)](#)
-  [Satolas Station](#) (remove)  
Chosen because: use it, collect it, surprised me [\(change\)](#)

# Does it work?

- TREC Session Track UI

The screenshot shows a web interface for a TREC session track. At the top, there is a dark navigation bar with 'Your task' and 'Search' sections. Below 'Your task', the text reads 'Search for events and information related to the Watergate scandal.' The 'Search' section contains a search bar with the text 'test' and a 'Search' button. Below the search bar, there are navigation links: '< Back 1 2 3 4 5 Next >'. The main content area displays search results for 'test'. The first result is 'National HIV and STD Testing Resources' with a URL 'http://www.hivtest.org' and a truncated title 'National HIV and STD Testing Resources ...'. The second result is 'Software testing services - Acutest' with a URL 'http://www.acutest.co.uk' and a truncated title 'Software testing services - Acutest ...'. The third result is 'DNA Testing - Legal DNA Tests, Paternity DNA Test, US Immigration DNA Testing, Infidelity DNA Testing' with a URL 'http://www.800dnaexam.com' and a truncated title 'DNA Testing - Legal DNA Tests, Paternity DNA Test, US Immigration DNA Testing, Infidelity DNA Testing ...'. The fourth result is 'Standardized Testing and Reporting (STAR) Results (CA Dept of Education)' with a URL 'http://star.cde.ca.gov' and a truncated title 'Standardized Testing and Reporting (STAR) Results (CA Dept of...'. On the right side of the page, there are four 'Save page' buttons, one for each search result. On the left side, there is a 'Your Saved Pages' section with a 'Watergate Trial Conversations' entry and a '(remove)' link. Below this, there are three radio button options: 'Answers the whole question', 'Answers parts of the question', and 'Answers a small part of the question'.

**Your task** ? Search

Search for events and information related to the Watergate scandal.

test

Search

< Back 1 2 3 4 5 Next >

**National HIV and STD Testing Resources**  
<http://www.hivtest.org>  
National HIV and STD **Testing** Resources ...

**Software testing services - Acutest**  
<http://www.acutest.co.uk>  
Software **testing** services - Acutest ...

**DNA Testing - Legal DNA Tests, Paternity DNA Test, US Immigration DNA Testing, Infidelity DNA Testing**  
<http://www.800dnaexam.com>  
DNA **Testing** - Legal DNA Tests, Paternity DNA Test, US Immigration DNA **Testing**, Infidelity DNA **Testing** ...

**Standardized Testing and Reporting (STAR) Results (CA Dept of Education)**  
<http://star.cde.ca.gov>  
Standardized **Testing** and Reporting (STAR) Results (CA Dept of...

**Your Saved Pages** ?

**Watergate Trial Conversations** (remove)

Answers the whole question

Answers parts of the question

Answers a small part of the question

Save page

Save page

Save page

Save page

# Where next?

- Can be combined with an experiment support system that handles the acquisition of participant responses (will be presented at CLEF 2013)
- Use it in lots of different experiments
  - <https://bitbucket.org/mhall/pyire>

# Questions!

- Would you use something the work-bench?
- What would you need to use it?
  
- Would there be interest in an IIR evaluation task for exploration interface?