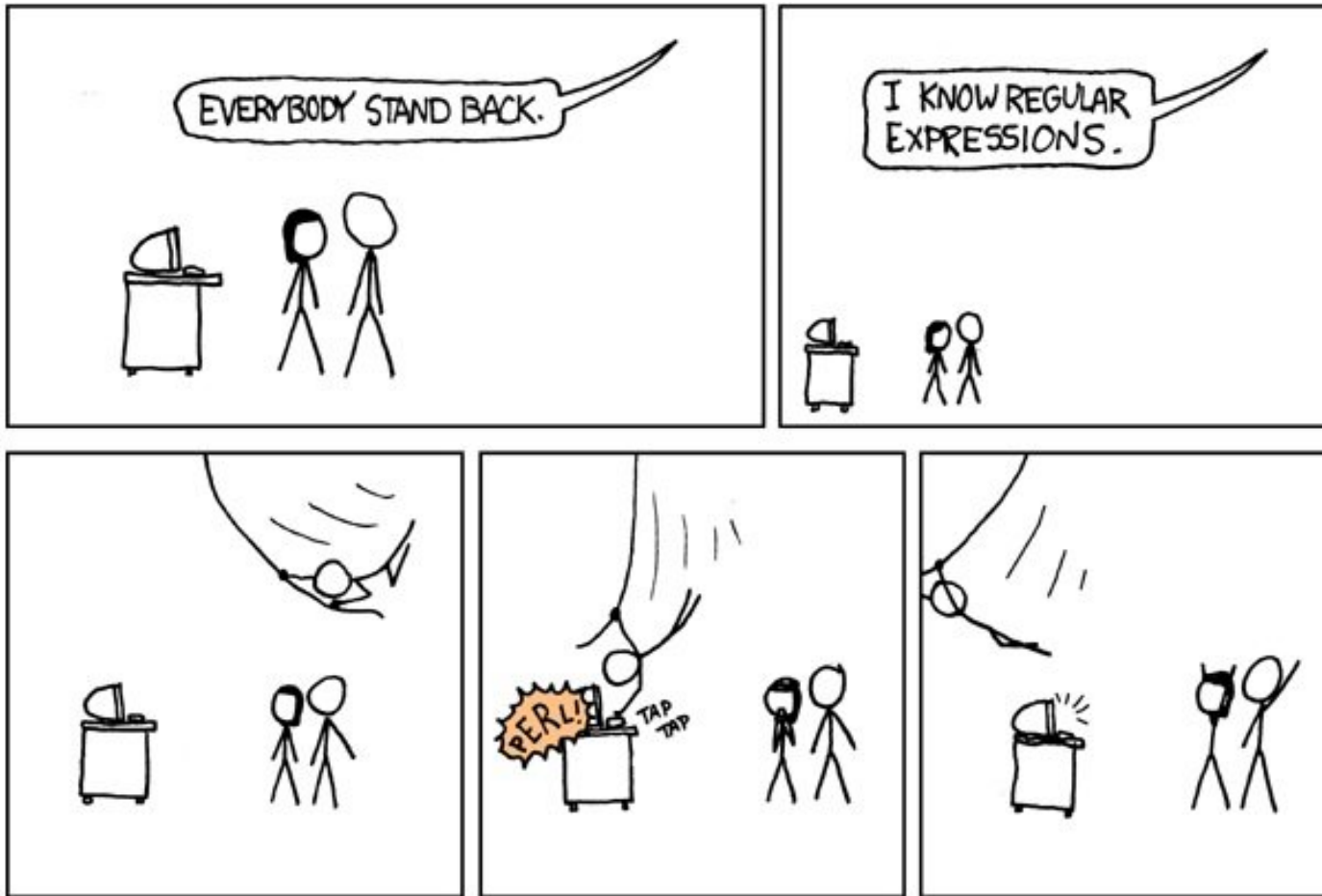


EAD Automation with Regular Expressions

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Regular expressions

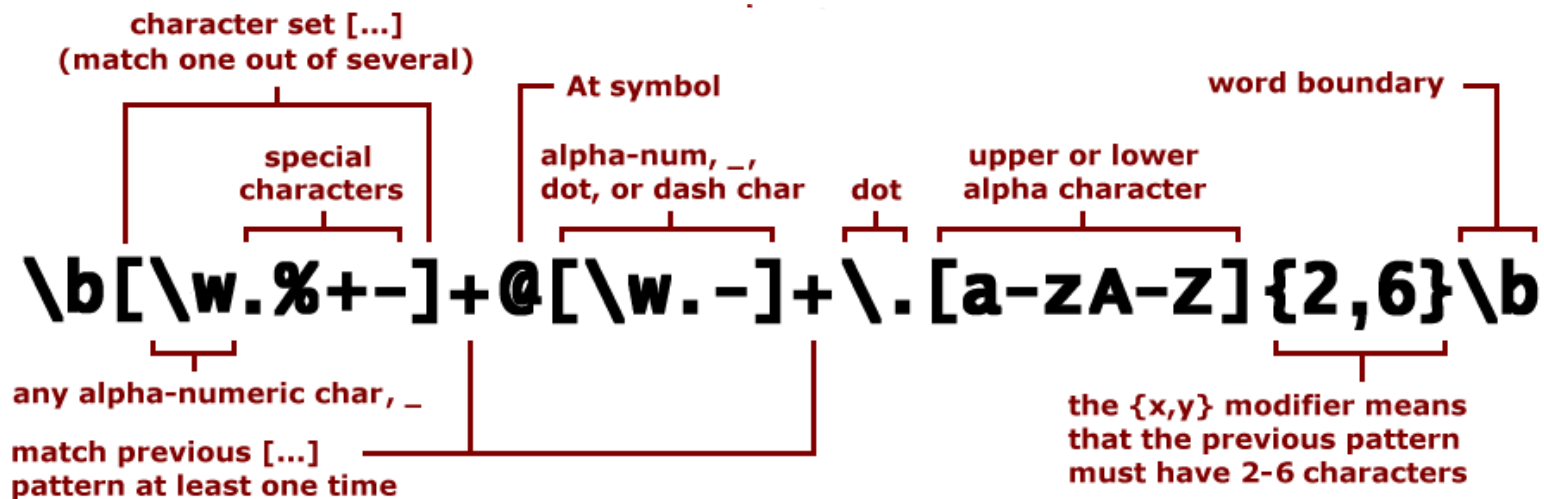


What are they?

- Sequence of characters forming a search pattern
- Used for find and replace operations
- Option in most computing languages and software

What do they look like?

- Made up of metacharacters and regular characters



Parse: username@domain.TLD (top level domain)

Metacharacters

- `.` = any single character
- `*` = matches the preceding element 0 or more times
- `()` = defines a subexpression, the string in the parentheses can be recalled later
- `\n` = (where n=digit from 1-9) matches the marked subexpression matched

What I use

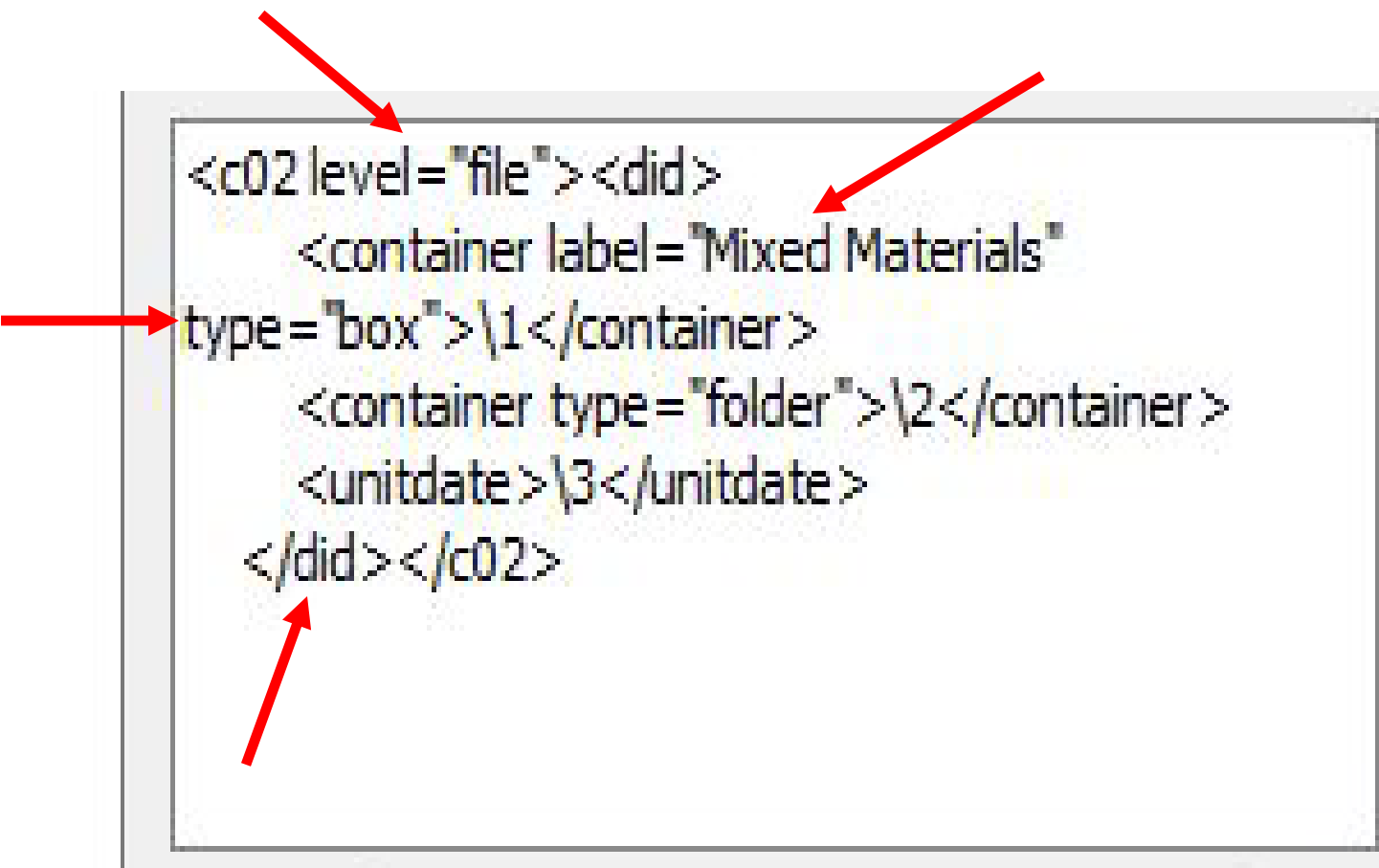
(.*) = ignore all

```
<c02>  
  <container>(.*)</container>  
  <container>(.*)</container>  
  <unitdate>(.*)</unitdate>  
</c02>
```

Replace with:



```
<c02>  
  <container>\1</container>  
  <container>\2</container>  
  <unitdate>\3</unitdate>  
</c02>
```



```
<c02 level="file"><did>  
  <container label="Mixed Materials"  
type="box">\1</container>  
  <container type="folder">\2</container>  
  <unitdate>\3</unitdate>  
</did></c02>
```

The diagram shows an XML code block with four red arrows pointing to specific parts: the opening <c02> tag, the label attribute of the first container, the type attribute of the first container, and the closing </did> tag.

How I use them

- Globally edit EAD
- Rearrange tags in EAD
- Import flat finding aids from Excel

Questions?



Exercises

- Exercise 1 = rearranging tags
- Exercise 2 = changing tag content
- Exercise 3 = importing flat finding aids from excel

Exercise 1

- **Scenario** – Finding aid encoded with <unitdate> outside of <unittitle>. Move all of the <unitdate> tags inside <unittitle>.
- Use xml file **exercise 1**.

Exercise 2

- **Scenario** – Finding aid that starts over the box numbers from 1 in the photograph series. Due to the way Archivist's Toolkit works this makes it impossible to assign locations. We need to go in and add a "P" before each box number.
- Use xml files **Exercise 2** and **Exercise 2 photo series**.

Exercise 3

- **Scenario** – Legacy finding aid with a flat structure in excel. Need to encode but several thousand entries.
- Use excel file **exercise 3** or if using Notetab use xml file **exercise 3**.

Regular expressions tutorials

- <http://www.regular-expressions.info/quickstart.html>
- <http://www.zytrax.com/tech/web/regex.htm>
- <http://regexone.com/> (simple interactive tutorial)