# Packages sent ... and received?

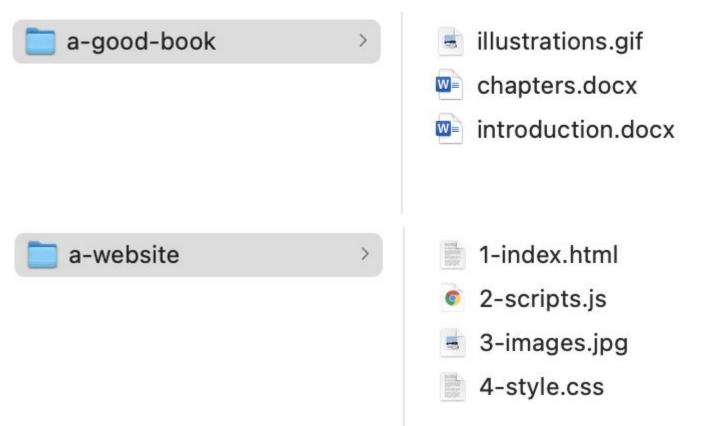
Documenting digital authenticity and creating preservation metadata with BagIt

## Providing Authentic, Verifiable Digital Content

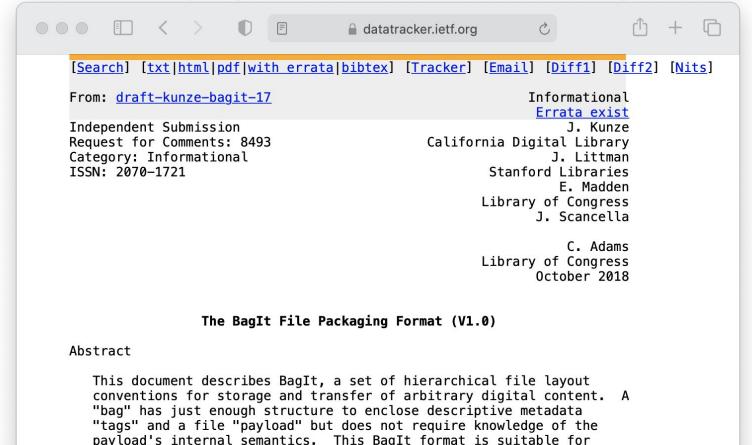
- "Did you get what I sent you?"
- "Do you have the file ... that I sent you last year?
  - o "Are you sure that it's the same?"



#### It's more complicated with "complex" digital objects . . .

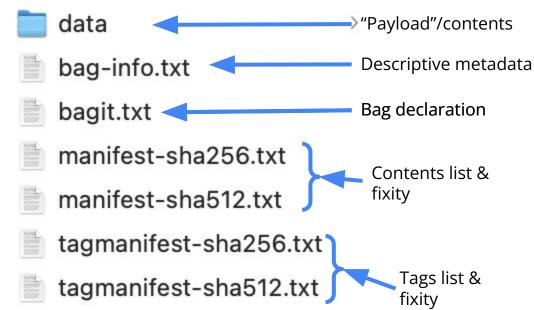


## One Answer: BagIt (A specification, and a tool)



#### What does it look like? How is it structured?





### Use "Bag Info" for descriptive information

Data is stored as label-name: value

(this is like a Python dictionary... 'key': 'value')

#### Sample BagInfo:

Contact-Name: Jesse

External-Description: These are some cool files!

Bagging-Date: 2022-01-08

Payload-Oxum: 26923687.23

# Manifests & sample bag

```
myfirstbag/
    manifest-md5.txt
     (49afbd86a1ca9f34b677a3f09655eae9 data/27613-h/images/q172.png)
     (408ad21d50cef31da4df6d9ed81b01a7 data/27613-h/images/q172.txt)
    bagit.txt
     (BagIt-version: 1.0
     (Tag-File-Character-Encoding: UTF-8
\--- data/
         27613-h/images/q172.png
          (... image bytes ...
         27613-h/images/q172.txt
          (... OCR text ...
```

#### Demo

Open up notebook 01b-using-bagit...

#### **Use Cases**

- Transfer and verify large amounts of heterogeneous web archive data (this was the problem in 2005, when California Digital Library and Library of Congress defined BagIt)
- Store large groups of digitized content, such as digitized microfilms (this is what the National Digital Newspaper Program does to preserve millions of pages of digitized newspapers)
- "Bag" local records, transmit them to a state or federal archive, and the archive can confirm they got the authentic files (this is used by the North Carolina State Archives)