QINGCLOUD

Anybox Web

安全可靠、开放易用的企业级云盘

1 技术栈

2 项目构建

3 文件上传

QINGCLOUD

1 技术栈

2 项目构建

3 文件上传

QINGCLOUD

3 文件上传

1. 获得用户的文件

2. 上传文件到服务器

3 文件上传

1. 获得用户的文件

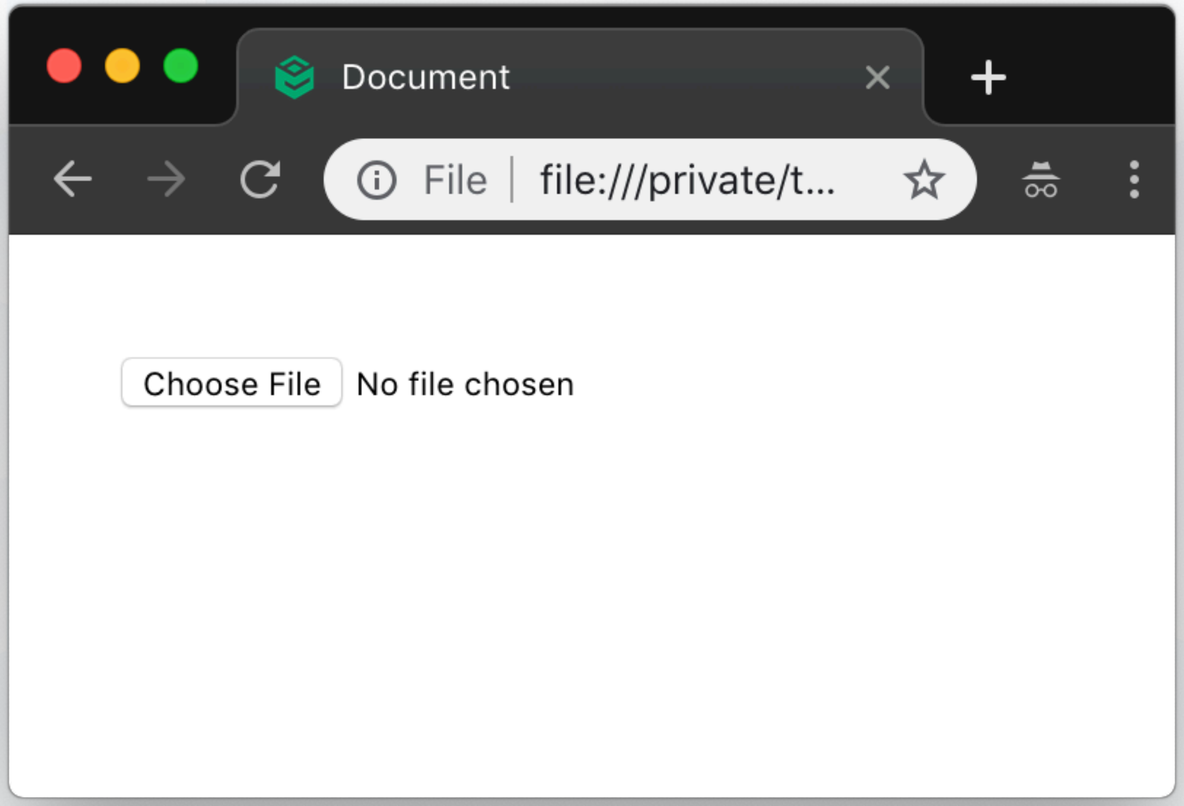
- input
- drag and drop

2. 上传文件到服务器

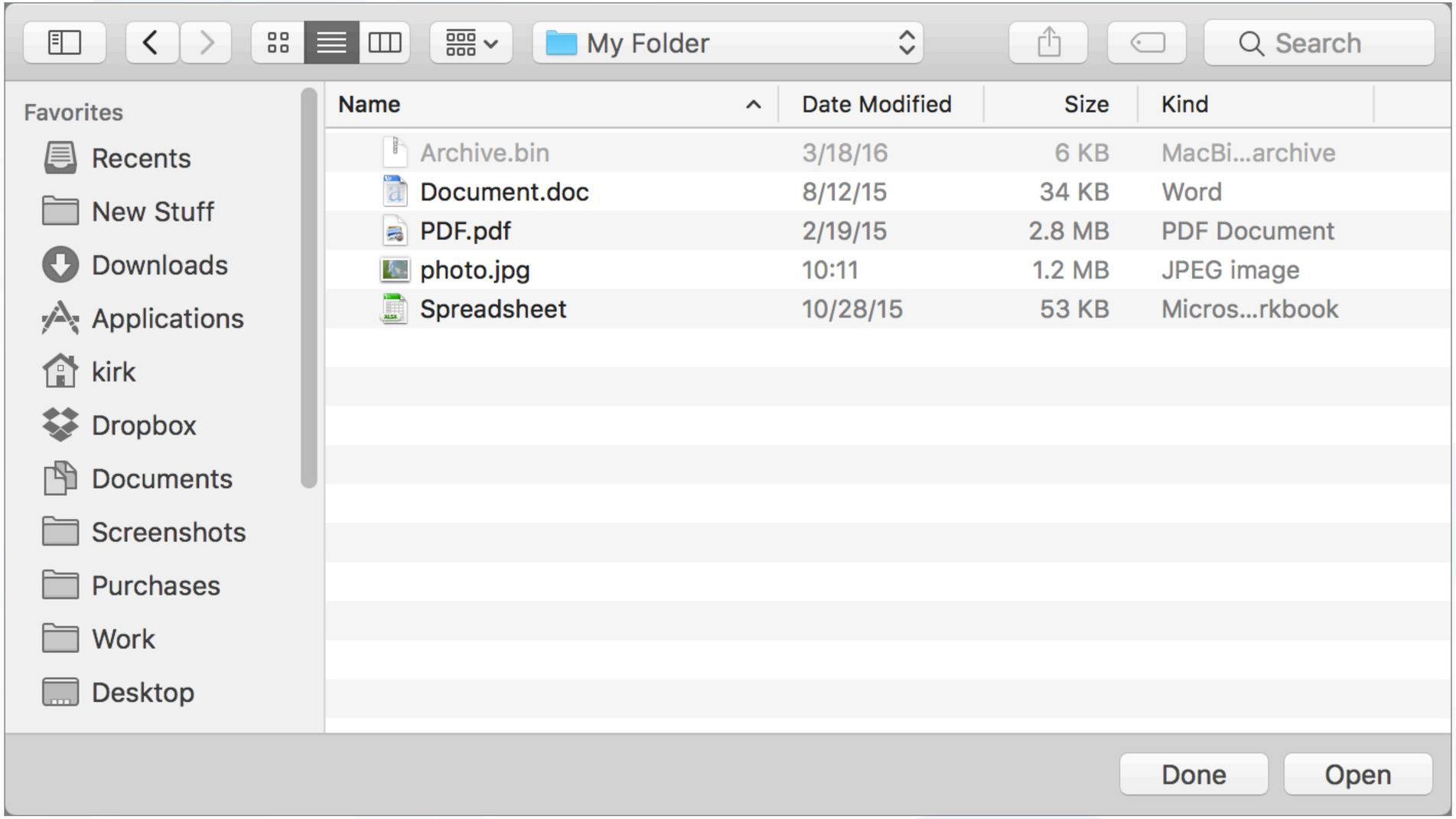
QINGCLOUD

```html
<!DOCTYPE html>
<html lang="en">
<head>
</head>
<body>
    <input type="file" name="file" id="input" />
</body>
</html>
```

QINGCLOUD



QINGCLOUD


My Folder
Search
Favorites
Recents
New Stuff
Downloads
Applications
kirk
Dropbox
Documents
Screenshots
Purchases
Work
Desktop
Name
Date Modified
Size
Kind
Archive.bin 3/18/16 6 KB MacBi...archive
Document.doc 8/12/15 34 KB Word
PDF.pdf 2/19/15 2.8 MB PDF Document
photo.jpg 10:11 1.2 MB JPEG image
Spreadsheet 10/28/15 53 KB Micros...rkbook
Done
Open

QINGCLOUD

```html
<input type="file" name="file" id="input" />
```

```javascript
const input = document.getElementById('input');

input.addEventListener('change', (e) => {
  const files = e.target.files;
  console.log(files);
});
```

QINGCLOUD

Console

top | Filter | All levels

index

```
▼ FileList {0: File(165845806), length: 1} i
  ▼ 0: File(165845806)
      lastModified: 1540972046952
    ▶ lastModifiedDate: Wed Oct 31 2018 15:47:26 GMT+0800 (China Standard Time) {}
      name: "知行学院分享 Anybox Web.key"
      size: 165845806
      type: "application/x-iwork-keynote-sffkey"
      webkitRelativePath: ""
    ▶ __proto__: File
    length: 1
  ▶ __proto__: FileList
> |
```

QINGCLOUD

```
const input = document.getElementById('input');

input.addEventListener('change', (e) => {
  const files = e.target.files;
  console.log(files);
});
```

QINGCLOUD

Console

top | Filter | All levels

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▼ FileList {0: File(165845806), length: 1}
  ▼ 0: File(165845806)
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      webkitRelativePath: ""
    ▶ __proto__: File
    length: 1
  ▶ __proto__: FileList
> |
```

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Blob - Web APIs | MDN

https://developer.mozilla.org/en-US/docs/Web/API/Blob

MDN web docs moz://a

Technologies ▾ References & Guides ▾ Feedback ▾ Sign in

Blob

Languages Edit

Jump to: Constructor Properties Methods Examples Specifications Browser compatibility See also

Web technology for developers > Web APIs > Blob

Related Topics

Blob

▾ Constructor

Blob()

A `Blob` object represents a file-like object of immutable, raw data. Blobs represent data that isn't necessarily in a JavaScript-native format. The `File` interface is based on `Blob`, inheriting blob functionality and expanding it to support files on the user's system.

To construct a `Blob` from other non-blob objects and data, use the `Blob()` constructor. To create a blob that contains a subset of another blob's data, use the `slice()` method. To obtain a `Blob` object for a file on the user's file system, see the `File` documentation.

The APIs accepting `Blob` objects are also listed on the `File` documentation.

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```
<input type="file" name="file" id="input" multiple />
```

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```
<input
  type="file"
  name="file"
  id="input"
  accept=".doc,.docx,application/msword"
  capture="camera"
/>
```

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accept 属性接受一个逗号分隔的 MIME 类型字符串, 如:

- accept="image/png" or accept=".png" — 只接受 png 图片.
- accept="image/png, image/jpeg" or accept=".png, .jpg, .jpeg" — PNG/JPEG 文件.
- accept="image/*" — 接受任何图片文件类型.
- accept=".doc,.docx,.xml,application/msword,application/vnd.openxmlformats-officedocument.wordprocessingml.document" — 接受任何 MS Doc 文件类型.

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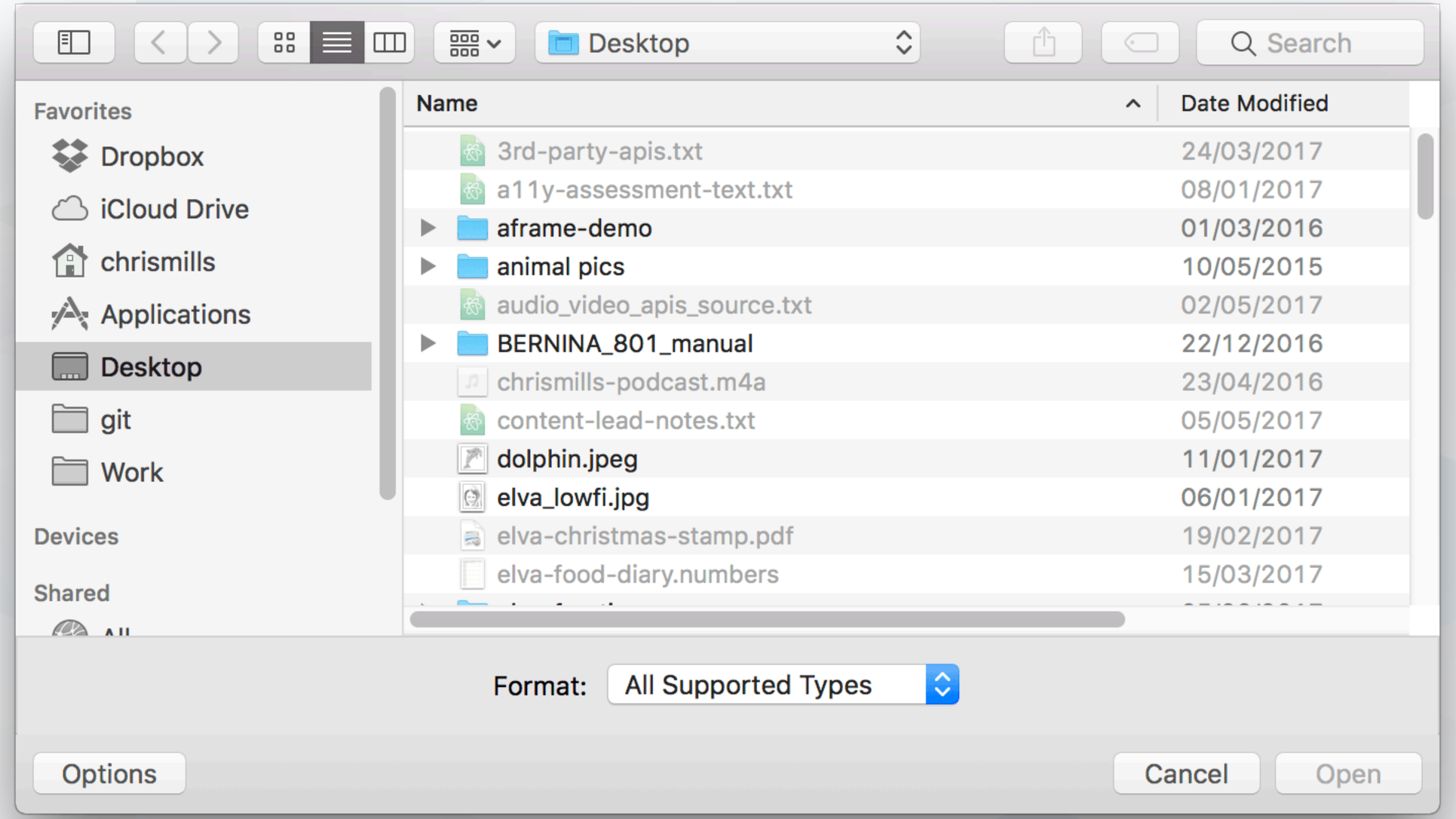
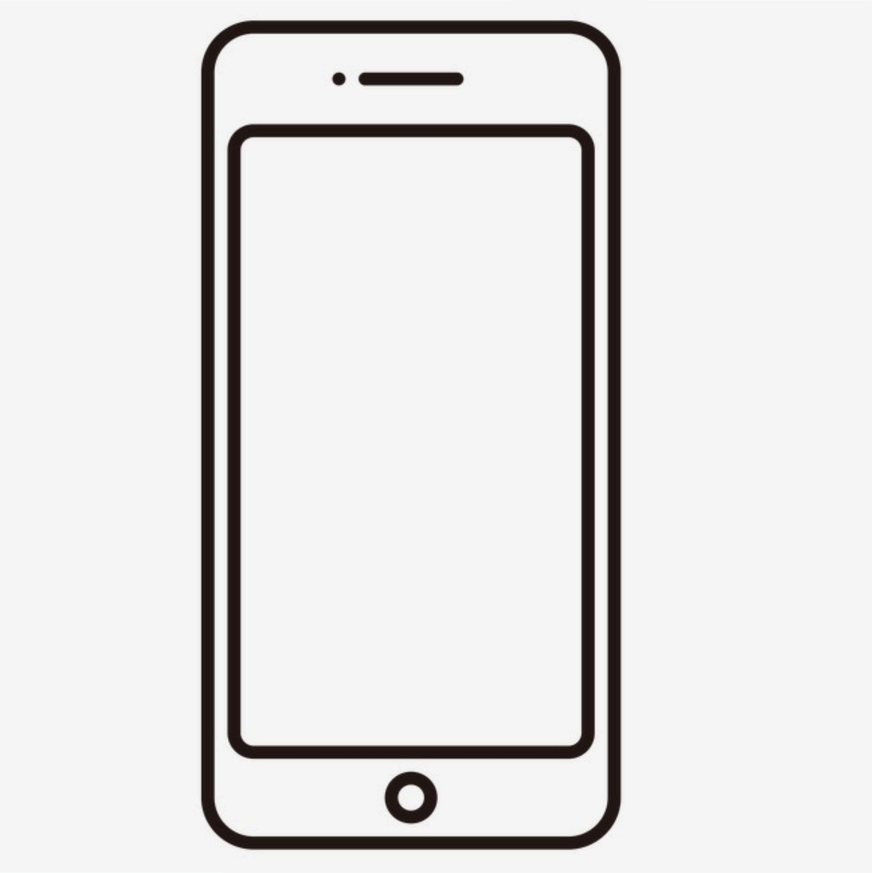

Desktop
Search
Favorites
Dropbox
iCloud Drive
chrismills
Applications
Desktop
git
Work
Devices
Shared
Name
Date Modified
3rd-party-apis.txt 24/03/2017
a11y-assessment-text.txt 08/01/2017
aframe-demo 01/03/2016
animal pics 10/05/2015
audio_video_apis_source.txt 02/05/2017
BERNINA_801_manual 22/12/2016
chrismills-podcast.m4a 23/04/2016
content-lead-notes.txt 05/05/2017
dolphin.jpeg 11/01/2017
elva_lowfi.jpg 06/01/2017
elva-christmas-stamp.pdf 19/02/2017
elva-food-diary.numbers 15/03/2017
Format:
All Supported Types
Options
Cancel
Open

QINGCLOUD

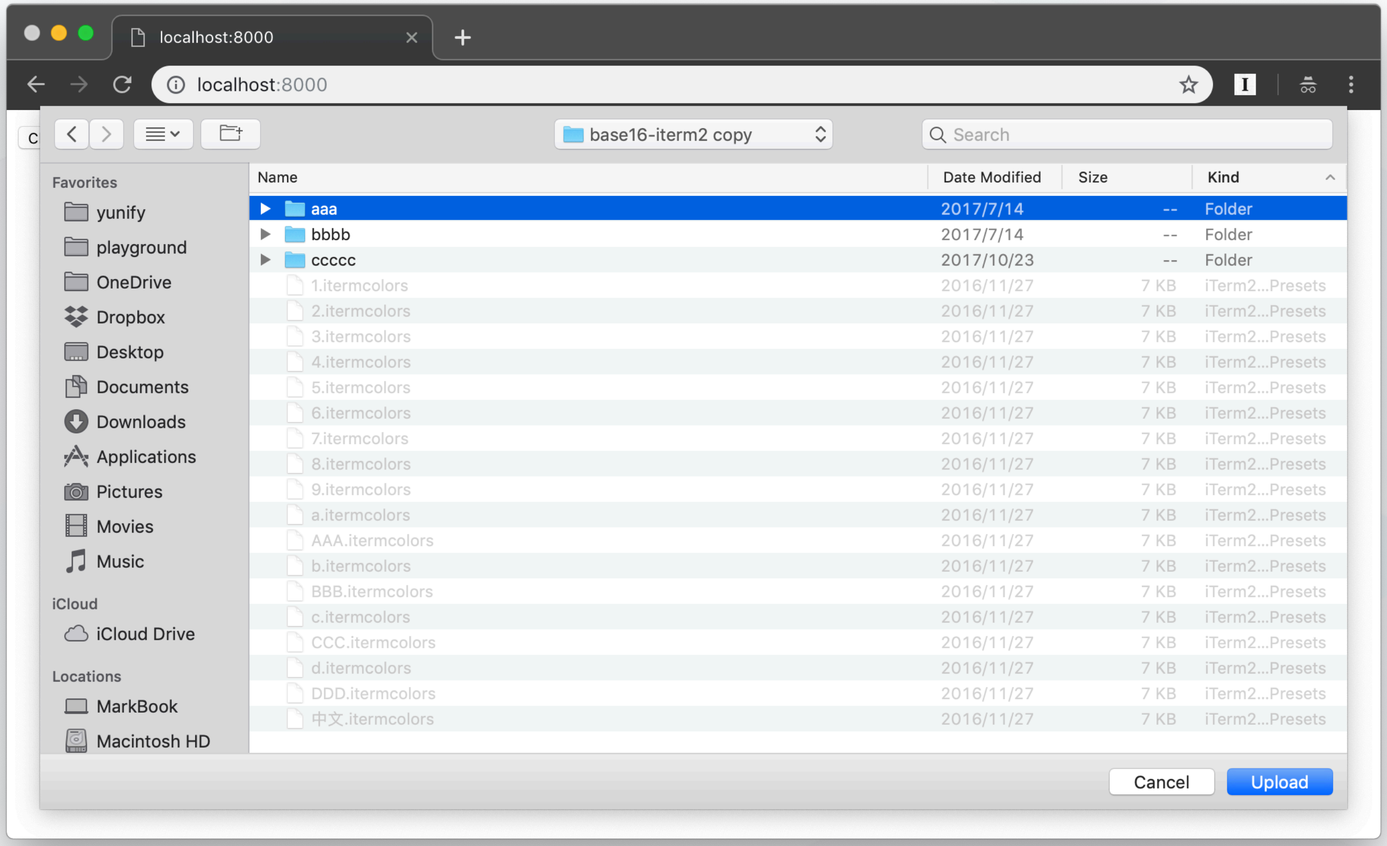
capture: What source to use for capturing image or video data

- capture="user" — 前置摄像头或麦克风
- capture="environment" — 后置摄像头或麦克风
- …



QINGCLOUD

```
<input
  type="file"
  name="file"
  id="input"
  webkitdirectory
/>
```



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使用 webkitdirectory 需要注意：

- 不能选择文件
- 只能选择一个文件夹
- 浏览器兼容性问题
- 得到的仍然是一个 FileList 对象

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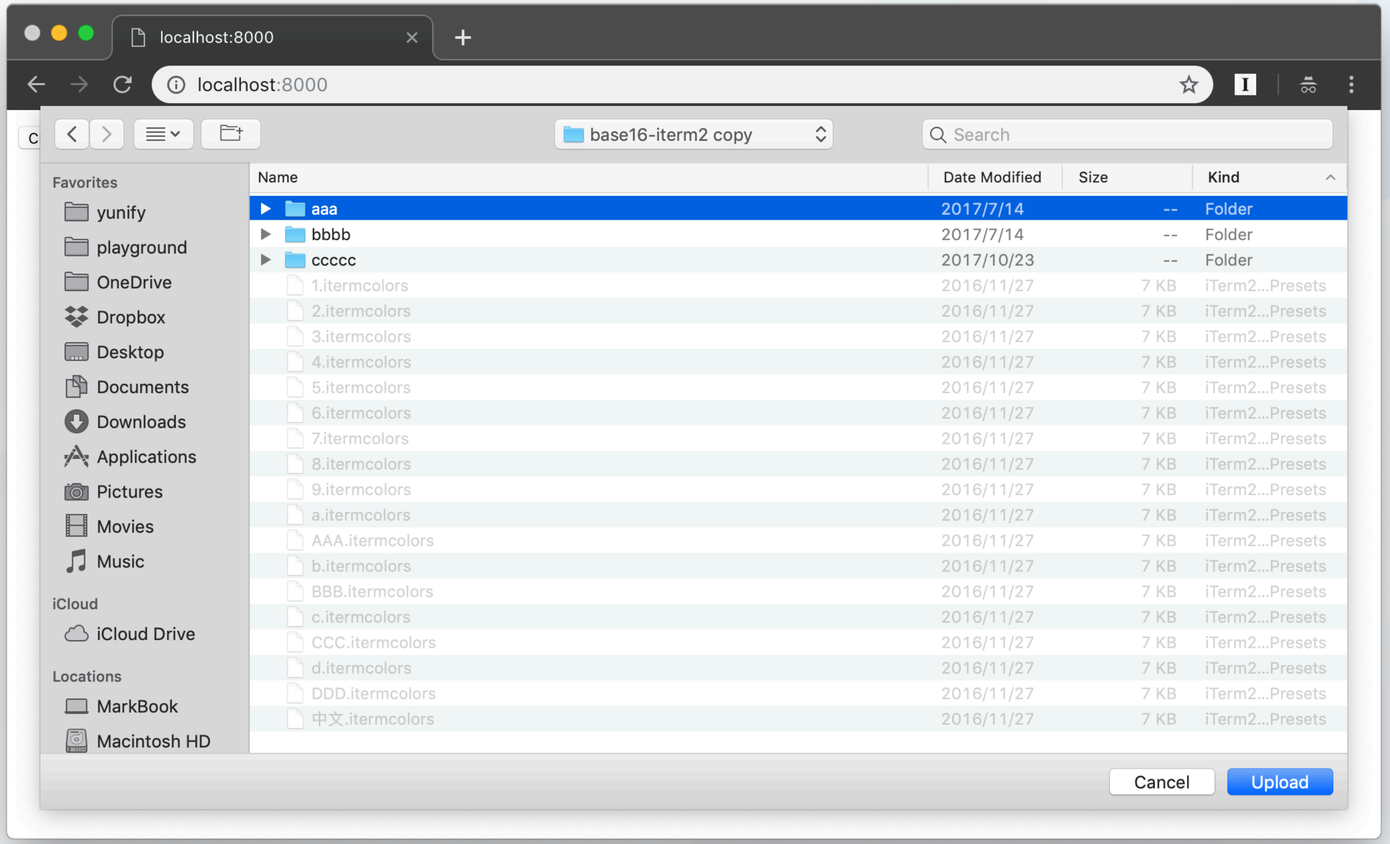

QINGCLOUD

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- 只能选择一个文件夹
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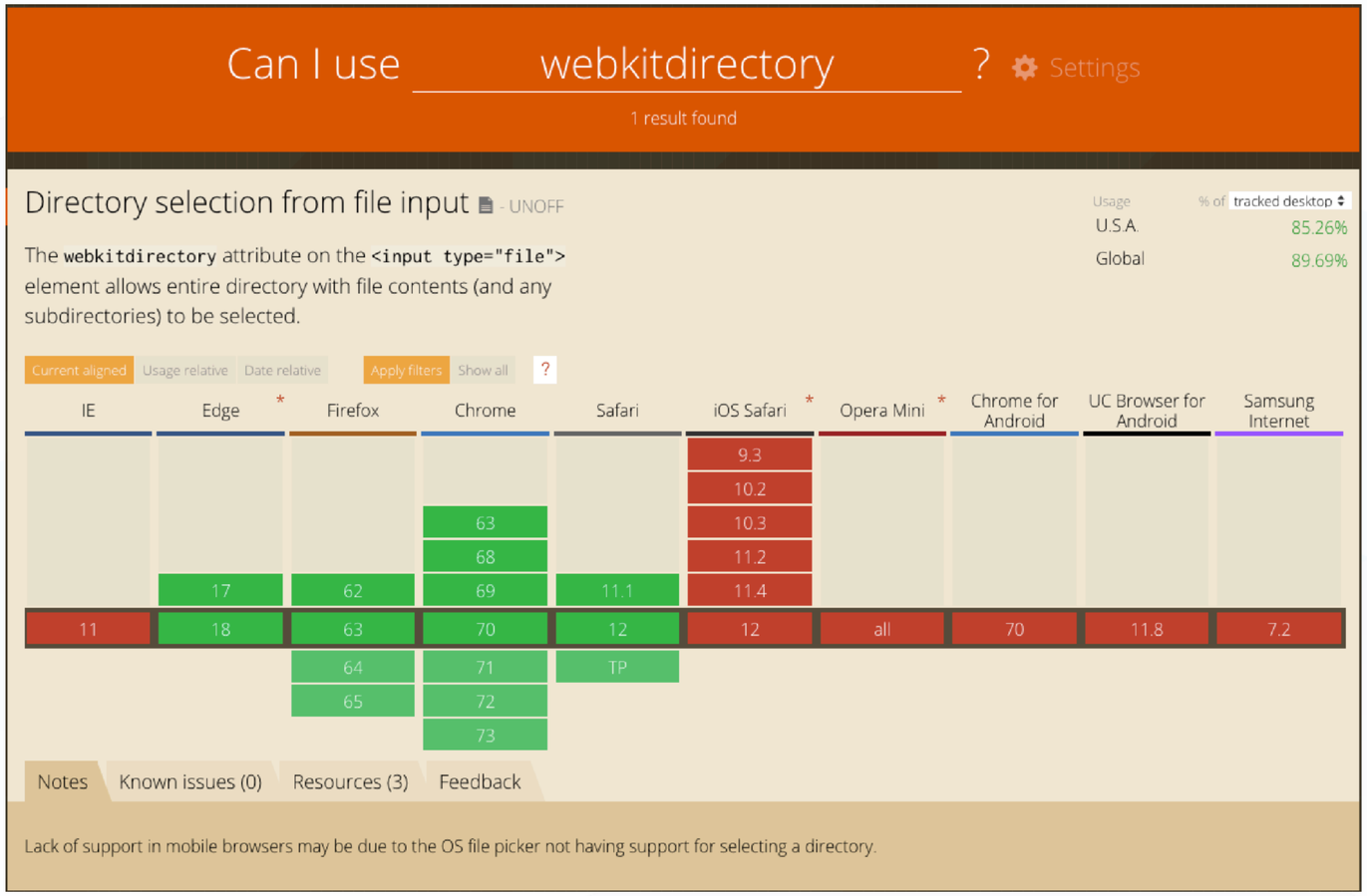

QINGCLOUD

使用 webkitdirectory 需要注意：

- 不能选择文件
- 只能选择一个文件夹
- 浏览器兼容性问题
- 得到的仍然是一个 FileList 对象

Console

top | Filter | All levels

```
▼FileList {0: File(165845806), length: 1}
  ▼0: File(165845806)
     lastModified: 1540972046952
    ▶lastModifiedDate: Wed Oct 31 2018 15:47:26 GMT+0800 (China Star
     name: "知行学院分享 Anybox Web.key"
     size: 165845806
     type: "application/x-iwork-keynote-sffkey"
     webkitRelativePath: ""
    ▶__proto__: File
   length: 1
  ▶__proto__: FileList
>
```

QINGCLOUD

Console

top | Filter | All levels

index

```
▼ FileList {0: File(165845806), length: 1}
  ▼ 0: File(165845806)
      lastModified: 1540972046952
    ▶ lastModifiedDate: Wed Oct 31 2018 15:47:26 GMT+0800 (China Standard Time) {}
      name: "知行学院分享 Anybox Web.key"
      size: 165845806
      type: "application/x-iwork-keynote-sffkey"
      webkitRelativePath: ""
    ▶ __proto__: File
    length: 1
  ▶ __proto__: FileList
> |
```

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Console

top | Filter | All levels

```
0), 91: File(6607), 92: File(6414), 93: File(6561), 94: File(6569), 95: File(6416), 96: File(6577), 97: File(6521), 98: File(6610), 99: File(6414), …}
▶ 0: File(6570) {name: "5.itermcolors", lastModified: 1480224133000, lastModifiedDate: Sun…
▶ 1: File(6514) {name: "d.itermcolors", lastModified: 1480224133000, lastModifiedDate: Sun…
▼ 2: File(6558)
    lastModified: 1480224133000
  ▶ lastModifiedDate: Sun Nov 27 2016 13:22:13 GMT+0800 (China Standard Time) {}
    name: "中文.itermcolors"
    size: 6558
    type: ""
    webkitRelativePath: "base16-iterm2 copy/中文.itermcolors"
  ▶ __proto__: File
▶ 3: File(6561) {name: "a.itermcolors", lastModified: 1480224133000, lastModifiedDate: Sun…
▶ 4: File(12292) {name: ".DS_Store", lastModified: 1541411162658, lastModifiedDate: Mon No…
▶ 5: File(6561) {name: "9.itermcolors", lastModified: 1480224133000, lastModifiedDate: Sun…
▶ 6: File(6561) {name: "BBB.itermcolors", lastModified: 1480224133000, lastModifiedDate: S…
▶ 7: File(6514) {name: "CCC.itermcolors", lastModified: 1480224133000, lastModifiedDate: S…
▶ 8: File(6569) {name: "3.itermcolors", lastModified: 1480224133000, lastModifiedDate: Sun…
```

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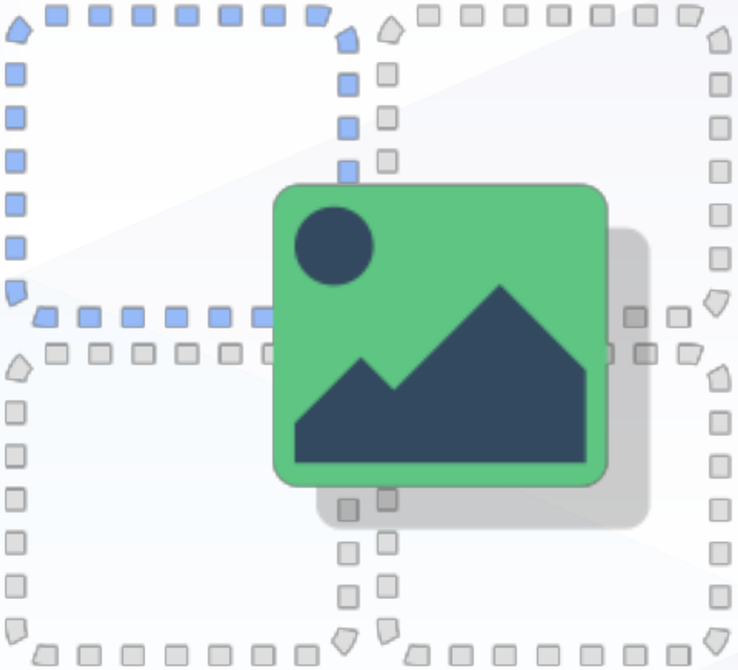
```html
<input type="file" name="file" id="input" />
```

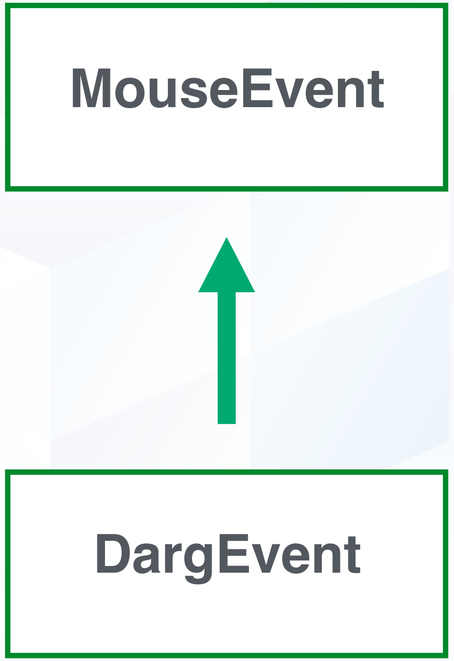
```javascript
const input = document.getElementById('input');

input.addEventListener('change', (e) => {
  const files = e.target.files;
  console.log(files);
});
```

QINGCLOUD

Drag and Drop



QINGCLOUD

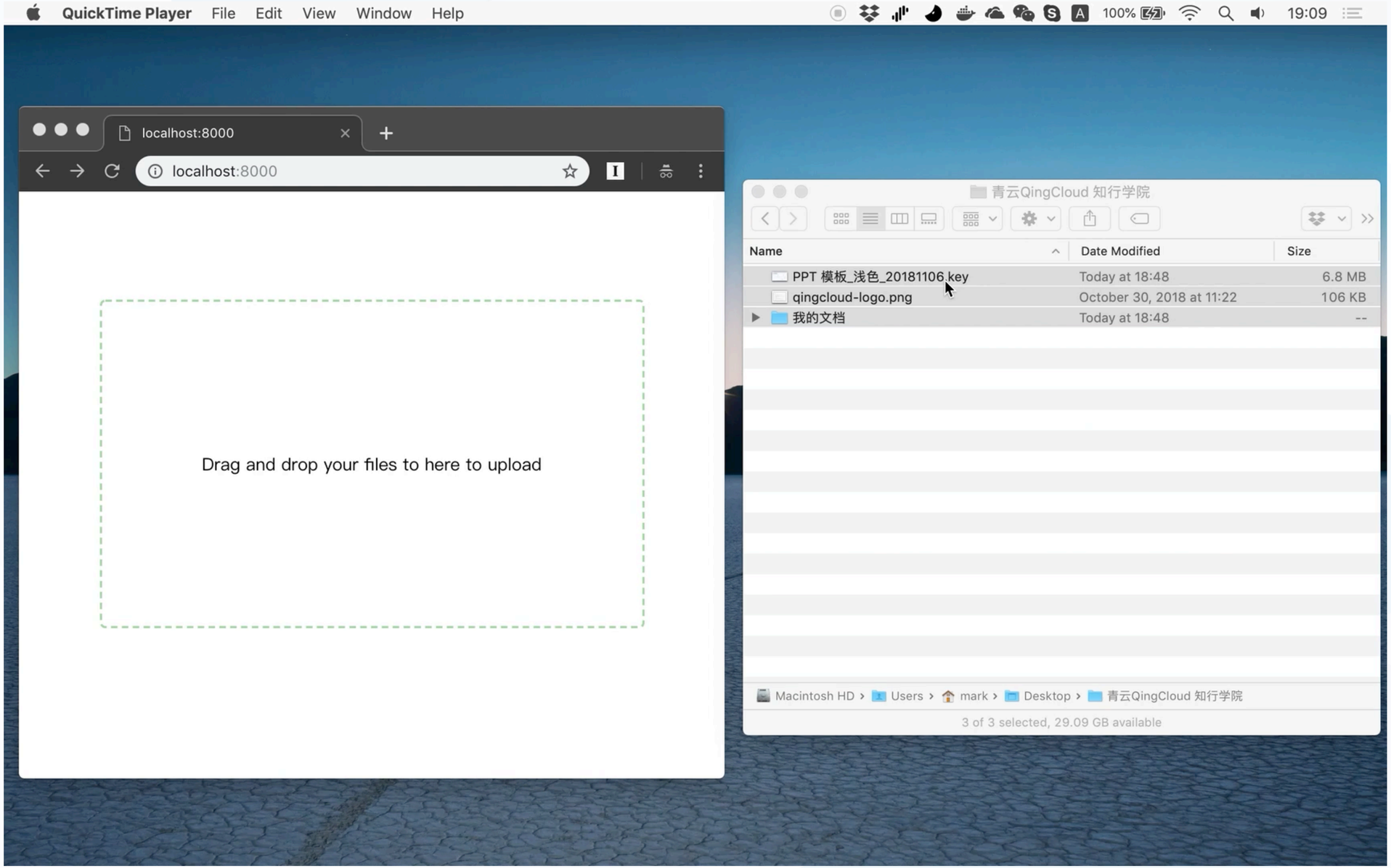


- clientX/clientY
- offsetX/offsetY
- pageX/pageY
- screenX/screenY

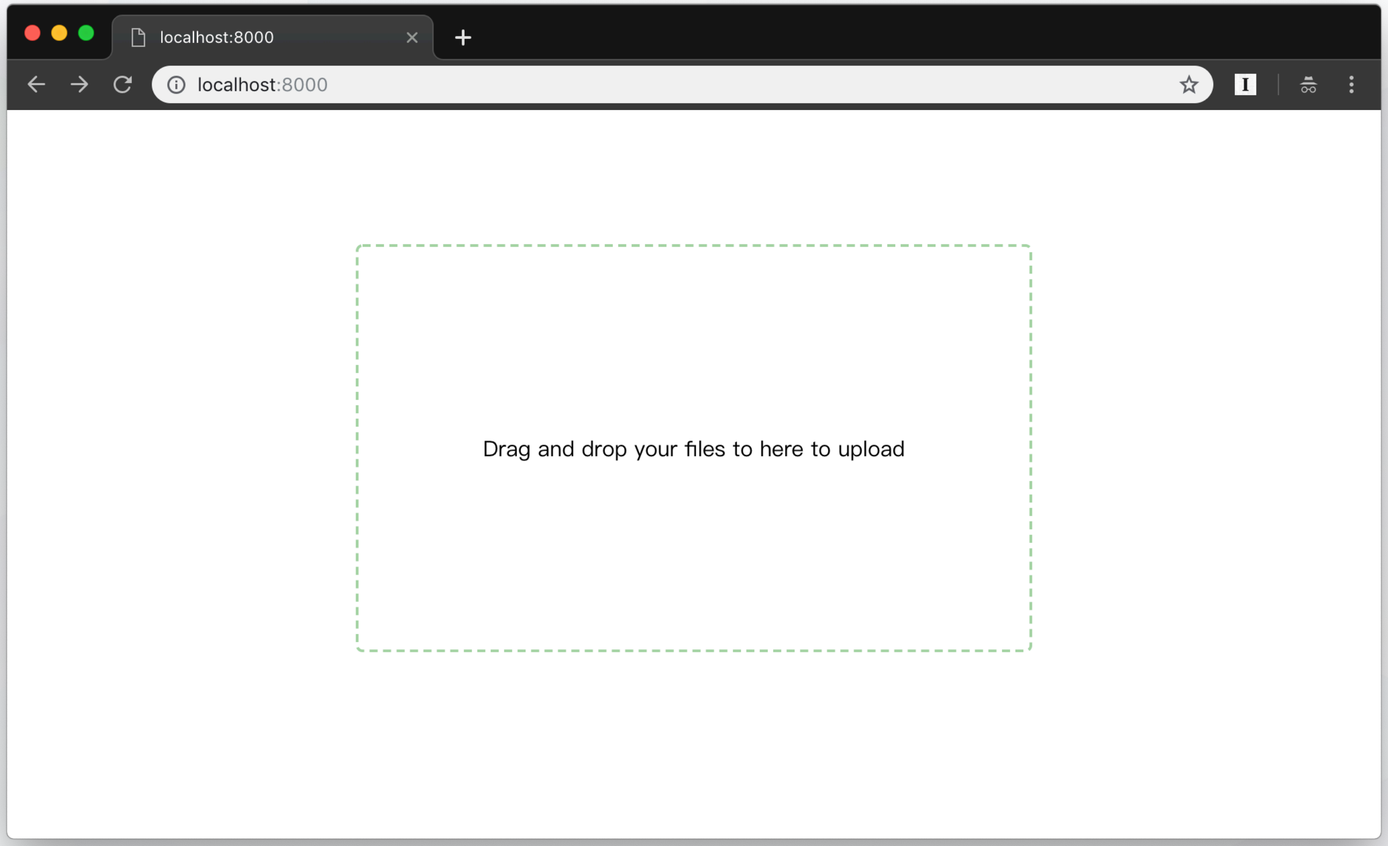
Event	On Event Handler	Description
`drag`	`ondrag`	当拖动元素或选中的文本时触发。
`dragend`	`ondragend`	当拖拽操作结束时触发 (比如松开鼠标按键或敲“Esc”键). (见结束拖拽)
`dragenter`	`ondragenter`	当拖动元素或选中的文本到一个可释放目标时触发（见 指定释放目标）。
`dragexit`	`ondragexit`	当元素变得不再是拖动操作的选中目标时触发。
`dragleave`	`ondragleave`	当拖动元素或选中的文本离开一个可释放目标时触发。
`dragover`	`ondragover`	当元素或选中的文本被拖到一个可释放目标上时触发（每100毫秒触发一次）。
`dragstart`	`ondragstart`	当用户开始拖动一个元素或选中的文本时触发（见开始拖动操作）。
`drop`	`ondrop`	当元素或选中的文本在可释放目标上被释放时触发（见执行释放）。

— MDN web docs moz://a

QINGCLOUD


QuickTime Player File Edit View Window Help
100%
19:09
localhost:8000
localhost:8000
Drag and drop your files to here to upload
青云QingCloud 知行学院
Name
Date Modified
Size
PPT 模板_浅色_20181106.key
Today at 18:48
6.8 MB
qingcloud-logo.png
October 30, 2018 at 11:22
106 KB
我的文档
Today at 18:48
--
Macintosh HD › Users › mark › Desktop › 青云QingCloud 知行学院
3 of 3 selected, 29.09 GB available

QINGCLOUD


localhost:8000
localhost:8000
Drag and drop your files to here to upload

QINGCLOUD

```html
<div class="drop-zone" id="drop-zone">
  <p>Drag and drop your files to here to upload</p>
</div>

<script>
  const dropZone = document.getElementById('drop-zone');

  dropZone.addEventListener('dragenter', (e) => {
    e.preventDefault();

    dropZone.classList.add('drop-zone--drop');
  });

  dropZone.addEventListener('dragover', (e) => {
    e.preventDefault();
  });

  dropZone.addEventListener('dragleave', (e) => {
    dropZone.classList.remove('drop-zone--drop');
  });
</script>
```

QINGCLOUD

```html
<div class="drop-zone" id="drop-zone">
  <p>Drag and drop your files to here to upload</p>
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<script>
  const dropZone = document.getElementById('drop-zone');

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    dropZone.classList.add('drop-zone--drop');
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  });

  dropZone.addEventListener('dragleave', (e) => {
    dropZone.classList.remove('drop-zone--drop');
  });
</script>
```

QINGCLOUD

```html
<div class="drop-zone" id="drop-zone">
  <p>Drag and drop your files to here to upload</p>
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<script>
  const dropZone = document.getElementById('drop-zone');

  dropZone.addEventListener('dragenter', (e) => {
    e.preventDefault();

    dropZone.classList.add('drop-zone--drop');
  });

  dropZone.addEventListener('dragover', (e) => {
    e.preventDefault();
  });

  dropZone.addEventListener('dragleave', (e) => {
    dropZone.classList.remove('drop-zone--drop');
  });
</script>
```

QINGCLOUD

```
dropZone.addEventListener('drop', handleDrop);

function handleDrop(e) {
  const dtItems = e.dataTransfer.items;
}
```

QINGCLOUD

DataTransfer - Web APIs | MDN

https://developer.mozilla.org/en-US/docs/Web/API/DataTransfer

Jump to: Constructor Properties Methods Example Specifications Browser compatibility See also

DataTransfer

- Constructor
  - DataTransfer()
- Properties
  - dropEffect
  - effectAllowed
  - files
  - items
  - mozCursor
  - mozItemCount
  - mozSourceNode
  - mozUserCancelled
  - types
- Methods
  - addElement()
  - clearData()
  - getData()
  - mozClearDataAt()
  - mozGetDataAt()
  - mozSetDataAt()
  - mozTypesAt()

Constructor

DataTransfer()

Creates and returns a new `DataTransfer` object.

Properties

Standard properties

DataTransfer.dropEffect

Gets the type of drag-and-drop operation currently selected or sets the operation to a new type. The value must be `none`, `copy`, `link` or `move`.

DataTransfer.effectAllowed

Provides all of the types of operations that are possible. Must be one of `none`, `copy`, `copyLink`, `copyMove`, `link`, `linkMove`, `move`, `all` or `uninitialized`.

DataTransfer.files

Contains a list of all the local files available on the data transfer. If the drag operation doesn't involve dragging files, this property is an empty list.

DataTransfer.items Read only

Gives a DataTransferItemList object which is a list of all of the drag data

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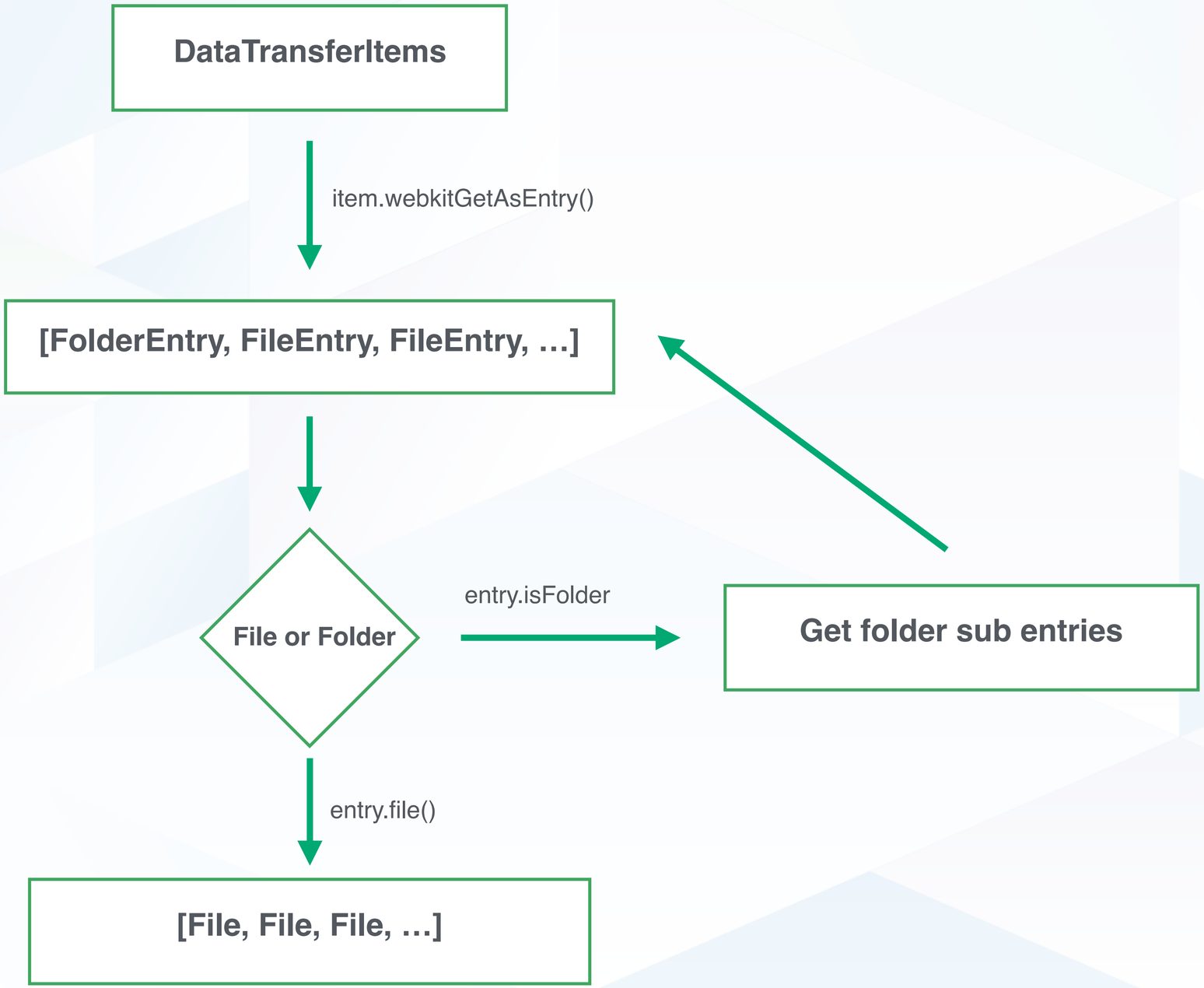
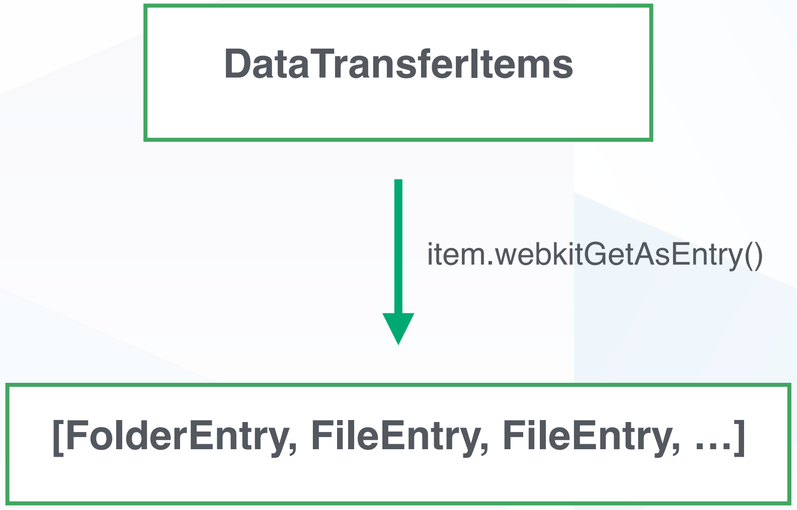

DataTransferItems
item.webkitGetAsEntry()
[FolderEntry, FileEntry, FileEntry, ...]
File or Folder
entry.isFolder
Get folder sub entries
entry.file()
[File, File, File, ...]

QINGCLOUD

```
const entries = [...items].map((item) => {
  return item.webkitGetAsEntry();
});
```

- FileSystemFileEntry
- FileSystemDirectoryEntry



QINGCLOUD

top | Filter | All levels

(index):79

```
▼(3) [FileEntry, FileEntry, DirectoryEntry] i
  ▼0: FileEntry
    ▶filesystem: DOMFileSystem {name: "http_localhost_8000:Isolated_1C650436A…
     fullPath: "/PPT 模板_浅色_20181106.key"
     isDirectory: false
     isFile: true
     name: "PPT 模板_浅色_20181106.key"
    ▶__proto__: FileEntry
  ▶1: FileEntry {isFile: true, isDirectory: false, name: "qingcloud-logo.png"…
  ▶2: DirectoryEntry {isFile: false, isDirectory: true, name: "我的文档", full…
   length: 3
  ▶__proto__: Array(0)
>
```

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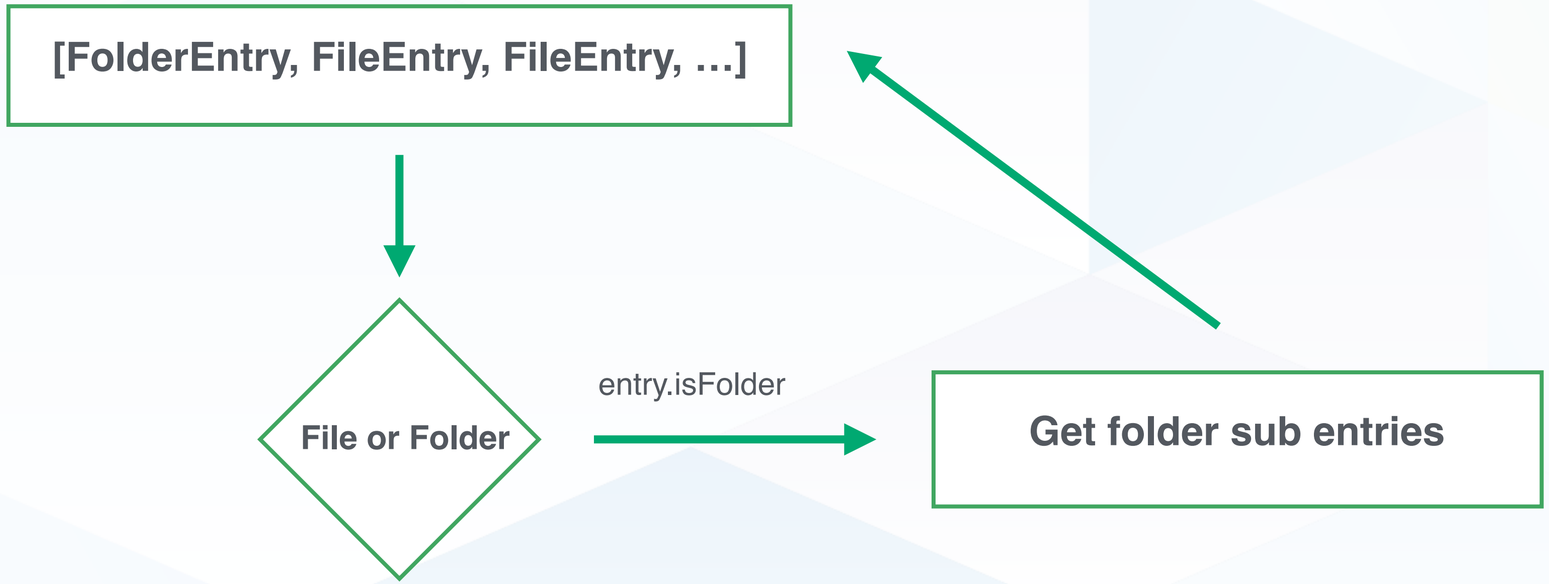
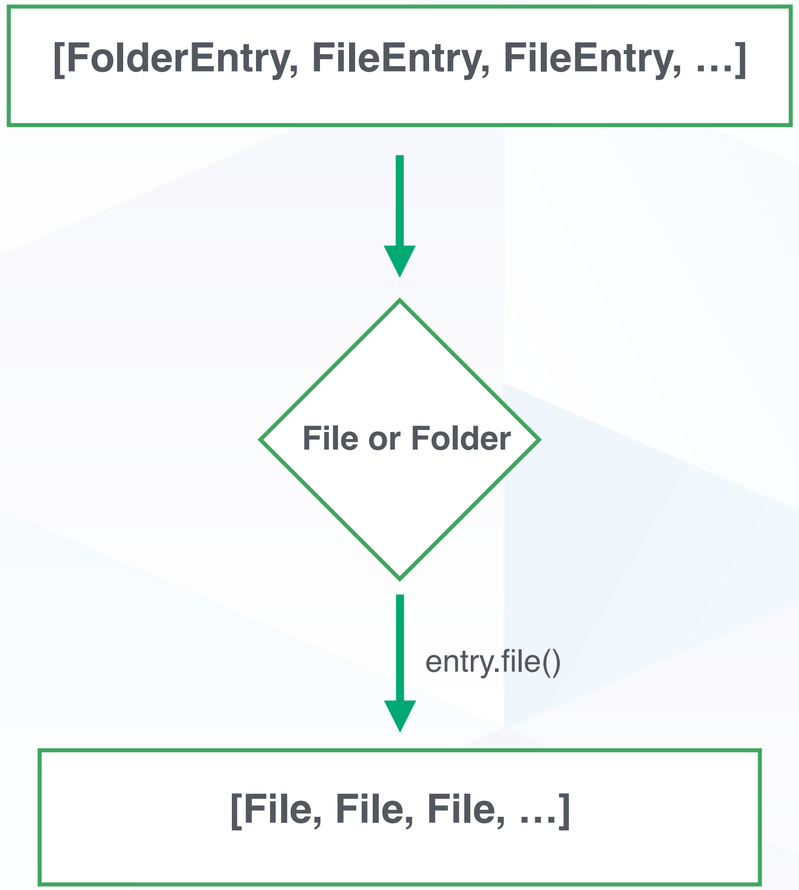
```
function getSubEntries(folderEntry) {
  const directoryReader = folderEntry.createReader();

  return new Promise((resolve, reject) => {
    directoryReader.readEntries(resolve, reject);
  });
}
```



QINGCLOUD

```
function getFileFromFileEntry(fileEntry) {
  return new Promise((resolve, reject) => {
    fileEntry.file((file) => {
      resolve(file);
    }, (error) => {
      reject(error);
    });
  });
}
```



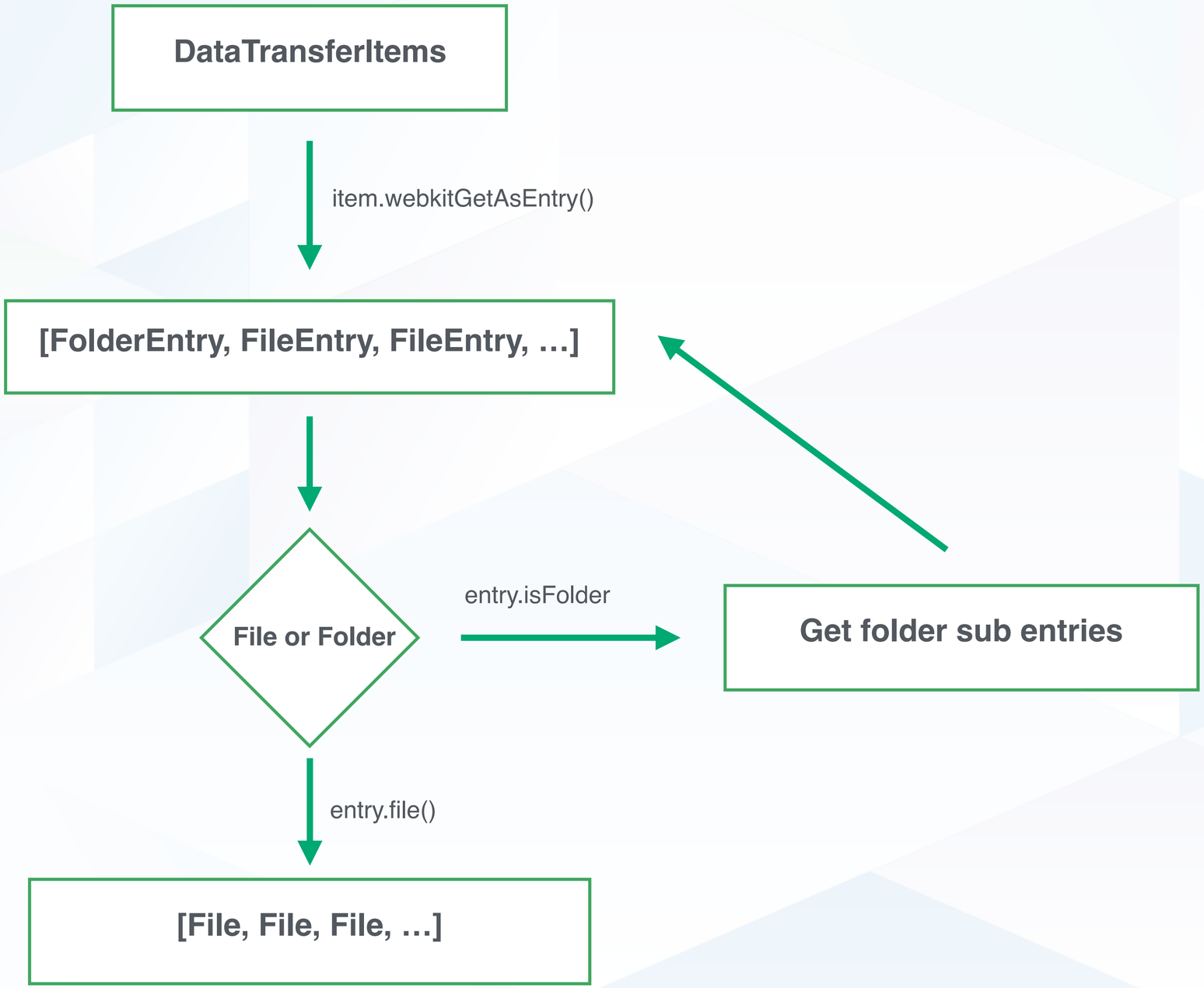
QINGCLOUD

top | Filter | All levels

(index):80

```
▼(4) [File(6795210), File(106332), File(8196), File(62295527)] i
  ▼0: File(6795210)
     lastModified: 1542710896358
    ▶lastModifiedDate: Tue Nov 20 2018 18:48:16 GMT+0800 (China Standard Time…
     name: "PPT 模板_浅色_20181106.key"
     relativePath: "PPT 模板_浅色_20181106.key"
     size: 6795210
     type: ""
     webkitRelativePath: ""
    ▶__proto__: File
  ▶1: File(106332) {relativePath: "qingcloud-logo.png", name: "qingcloud-logo…
  ▶2: File(8196) {relativePath: "我的文档/.DS_Store", name: ".DS_Store", lastM…
  ▶3: File(62295527) {relativePath: "我的文档/知行学院分享 Anybox Web-最终决定版.k…
   length: 4
  ▶__proto__: Array(0)
> |
```

QINGCLOUD


DataTransferItems
item.webkitGetAsEntry()
[FolderEntry, FileEntry, FileEntry, ...]
File or Folder
entry.isFolder
Get folder sub entries
entry.file()
[File, File, File, ...]

QINGCLOUD

青云QingCloud 知行学院 -- Any

https://gist.github.com/markyunify/b3cd78ff793e79089fe4219a0a4c1668

GitHubGist Search... All gists GitHub Sign up for a GitHub account Sign in

Instantly share code, notes, and snippets.

markyunify / anybox-drop-file-demo.html

Created 3 minutes ago

Star 0 Fork 0

Code Revisions 1

Embed <script src="https://gi Download ZIP

青云QingCloud 知行学院 -- Anybox 企业网盘。如何获得用户 drop 到页面上的文件。

anybox-drop-file-demo.html Raw

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta content="utf-8" http-equiv="encoding">
<style>
  .drop-zone {
    display: flex;
    align-items: center;
    justify-content: center;

```

https://gist.github.com/markyunify/b3cd78ff793e79089fe4219a0a4c1668

QINGCLOUD

Can I use... Support tables for

https://caniuse.com/#search=drag

Drag and Drop - LS

Usage

Global

% of all users

49.24% + 4.92% = 54.16%

Method of easily dragging and dropping elements on a page, requiring minimal JavaScript.

Current aligned | Usage relative | Date relative | Apply filters | Show all | ?

IE	Edge *	Firefox	Chrome	Safari	Opera	iOS Safari *	Opera Mini *	Android Browser *	Blackberry Browser	Opera Mobile *
1 3 6-9		2-3			10-11.5	3.2-10.3				12
2 3 10	2 12-16	3.5-62	4-69	3.1-11.1	12.1-55	11-11.4		2.1-4.4.4	7	12.1
2 3 11	2 17	63	70	12	56	12	all	67	10	46
	18	64-65	71-73	TP						

Notes | Known issues (9) | Resources (9) | Feedback

`dataTransfer.items` only supported by Chrome.

QINGCLOUD

- ✔ better user experience
- ✔ get files asynchronously

QINGCLOUD

3 文件上传

1. 获得用户的文件

- input
- drag and drop

2. 上传文件到服务器

QINGCLOUD

QINGCLOUD

```javascript
function sendFileDemo(file) {
  const form = new FormData;
  form.append('name', file.name);
  form.append('parent_id', parentId);
  form.append('file', file.raw);

  return axios({
    method: 'post',
    url: 'https://example.com/file',
    data: form,
  }).then(() => {
    console.log('File upload succeeded!');
  }).catch((error) => {
    console.log('File upload failed!', error);
  });
}
```

QINGCLOUD

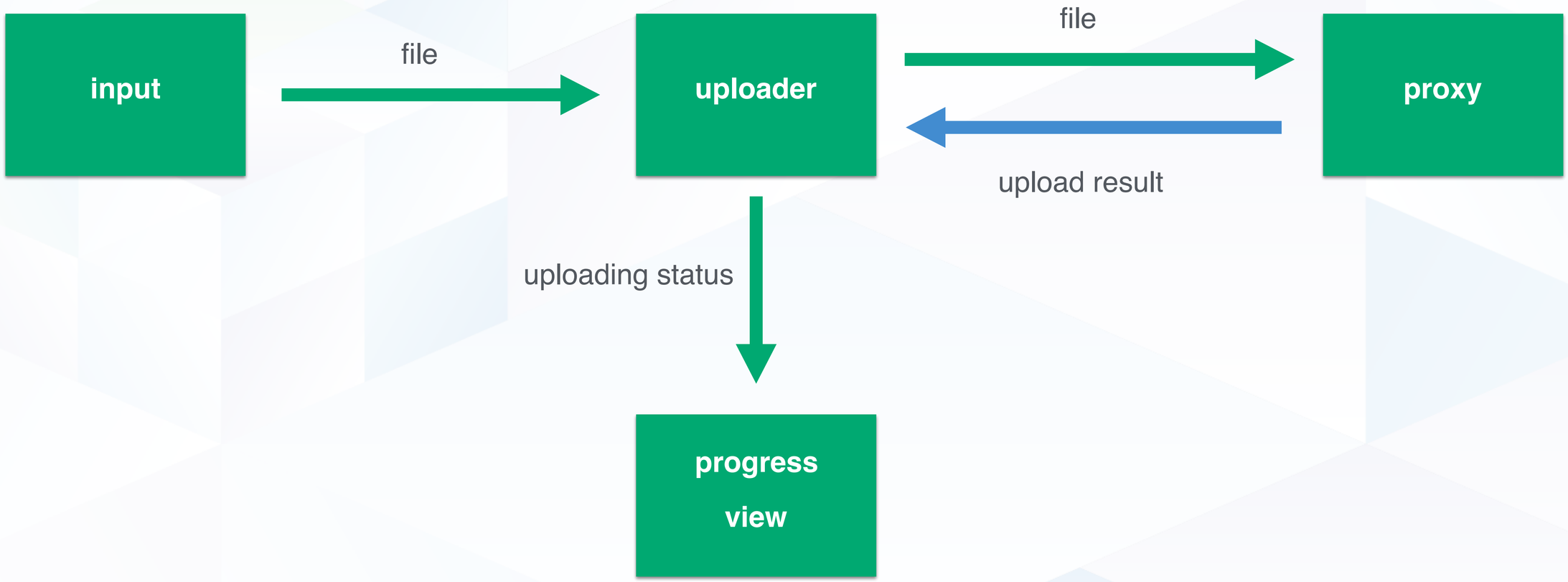
用户想要的

- 上传文件夹
- 同时上传多个文件
- 上传进度展示

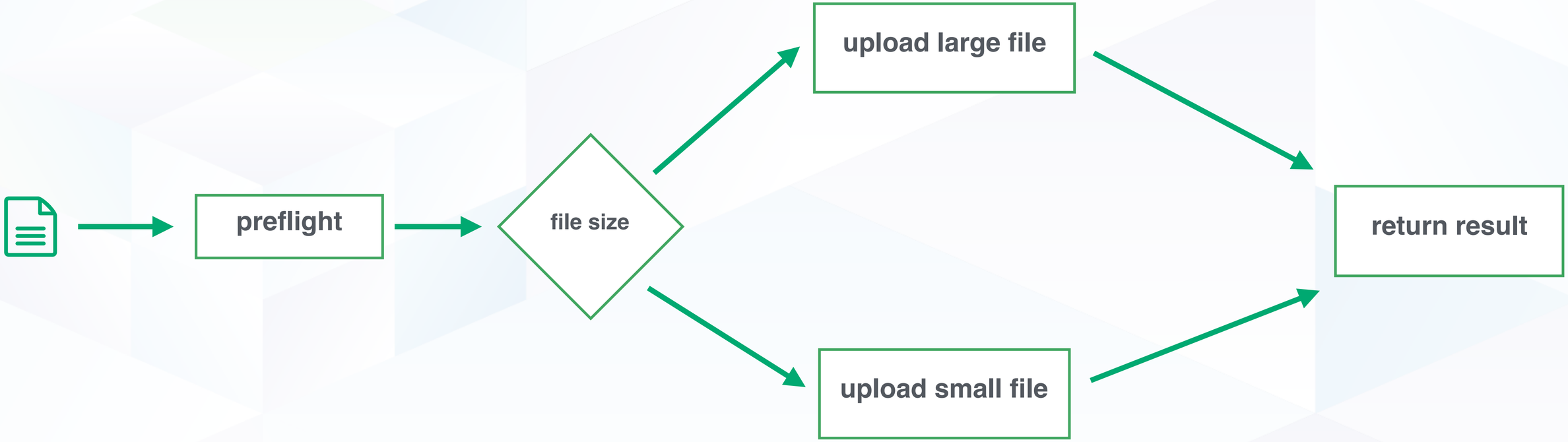
API 提供的

- every request need signature or token
- every request has different URL
- multipart upload large files

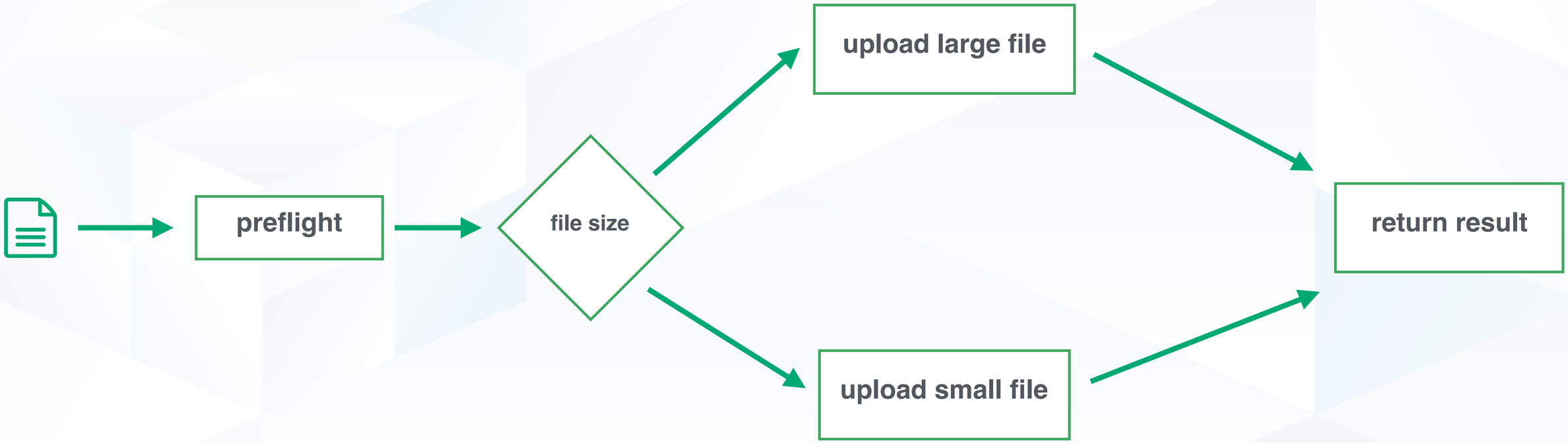
QINGCLOUD


input
file
uploader
file
proxy
upload result
uploading status
progress
view

QINGCLOUD


preflight
file size
upload large file
upload small file
return result

QINGCLOUD


preflight
file size
upload large file
upload small file
return result

QINGCLOUD

upload large file

1. init multipart upload
2. upload parts
3. complete multipart upload

QINGCLOUD

upload large file

1. init multipart upload

2. upload parts

3. complete multipart upload

QINGCLOUD

```
initMultipartUpload() {
  apiRequest({
    path: '/api/init_mulitpart_upload',
    method: 'post',
    body: JSON.stringify({
      name: 'large file exampl.zip',
      parent_id: 'uxcb9832fx',
      size: 7 * 1024 * 1024 * 1024,
    }),
  }).then((result) => {

    console.log(result.upload_id);

    return result.upload_id;
  });
}
```

QINGCLOUD

upload large file

1. init multipart upload

2. upload parts

3. complete multipart upload

QINGCLOUD

Blob.slice() - Web APIs | MDN

https://developer.mozilla.org/en-US/docs/Web/API/Blob/slice

MDN web docs moz://a

Technologies | References & Guides | Feedback | Sign in

Blob.slice()

Languages | Edit

Jump to: Syntax | Specifications | Browser compatibility | See also

Web technology for developers > Web APIs > Blob > Blob.slice()

Related Topics

Blob

- Constructor
  - Blob()

The **`Blob.slice()`** method is used to create a new `Blob` object containing the data in the specified range of bytes of the source `Blob`.

> **Note:** Be aware that the `slice()` method has vendor prefixes on some browsers and versions: `blob.mozSlice()` for Firefox 12 and earlier and `blob.webkitSlice()` in Safari. An old version of the `slice()` method, without vendor prefixes, had different semantics, and is obsolete.

QINGCLOUD

```
uploadChunks() {
  const { done, value: chunk } = this.fileChunks.next();

  if (done || this.abort) {
    return Promise.resolve(null);
  }

  return this.uploadSingleChunk(chunk, this.position).then(() => {
    this.position += MAX_CHUNK_SIZE;

    return this.uploadChunks();
  }).catch((error) => {
    return this.handleError(error);
  });
}
```

QINGCLOUD

```
* getFileChunks() {
  while (this.position + MAX_CHUNK_SIZE < this.file.size) {
    yield this.file.raw.slice(this.position, this.position + MAX_CHUNK_SIZE);
  }

  yield this.file.raw.slice(this.position, this.file.size);
}
```

QINGCLOUD

upload large file

1. init multipart upload

2. upload parts

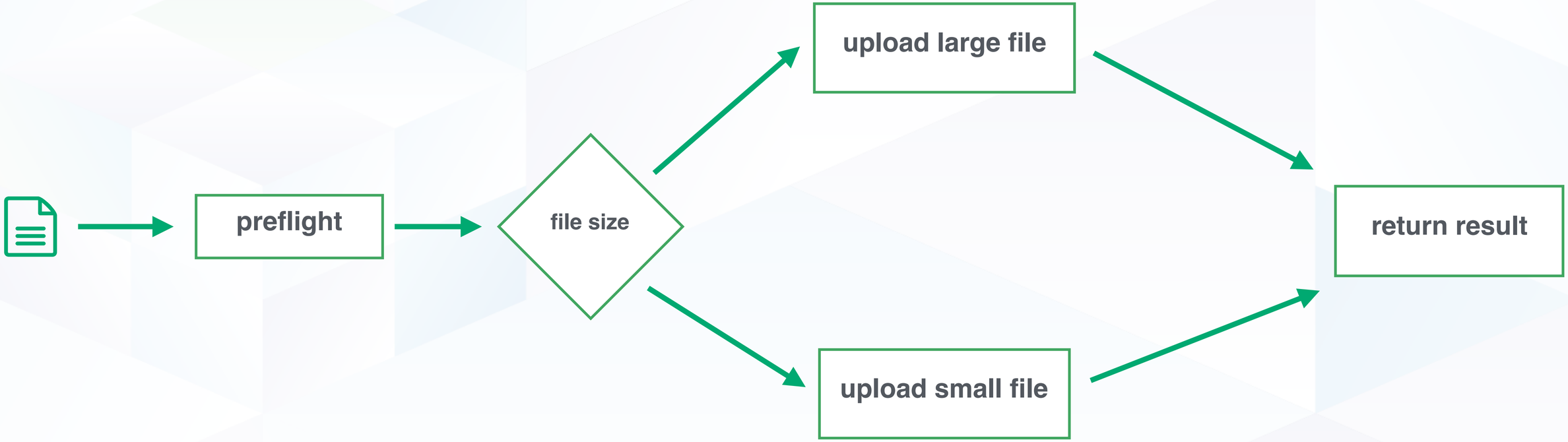
3. complete multipart upload

QINGCLOUD

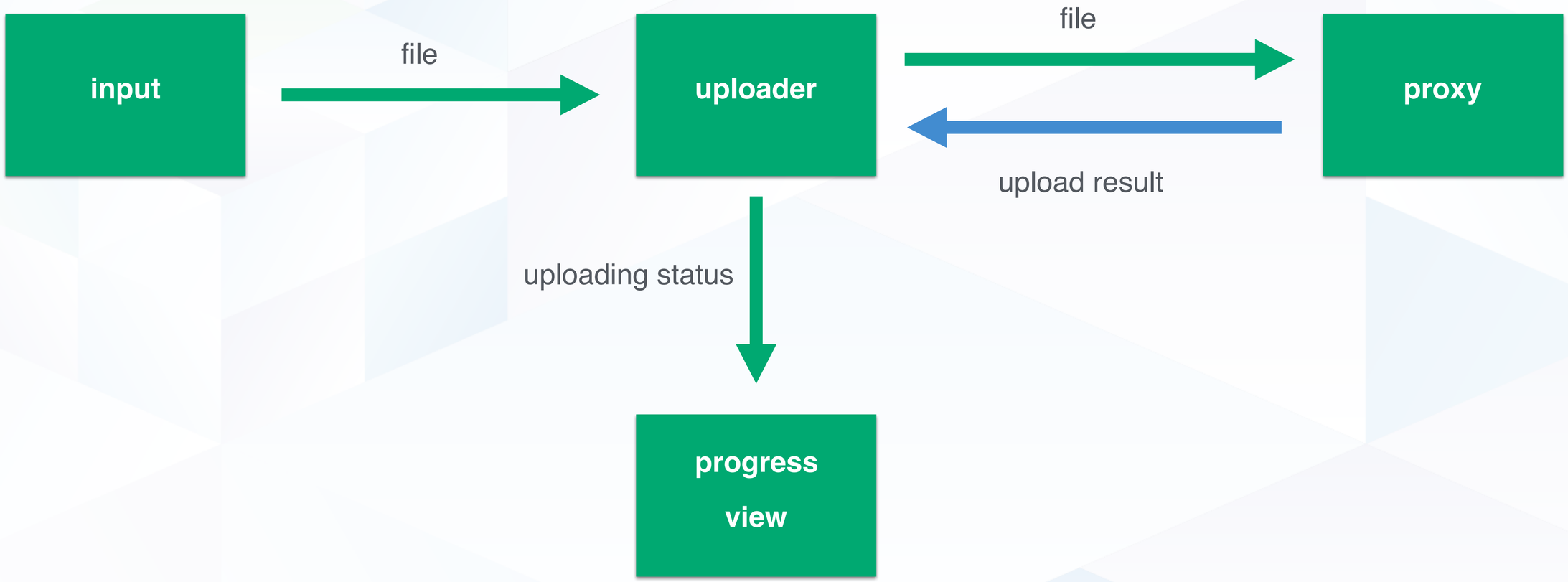
upload large file

1. init multipart upload
2. upload parts
3. complete multipart upload

QINGCLOUD


preflight
file size
upload large file
upload small file
return result

QINGCLOUD


input
file
uploader
file
proxy
upload result
uploading status
progress
view

QINGCLOUD

queued

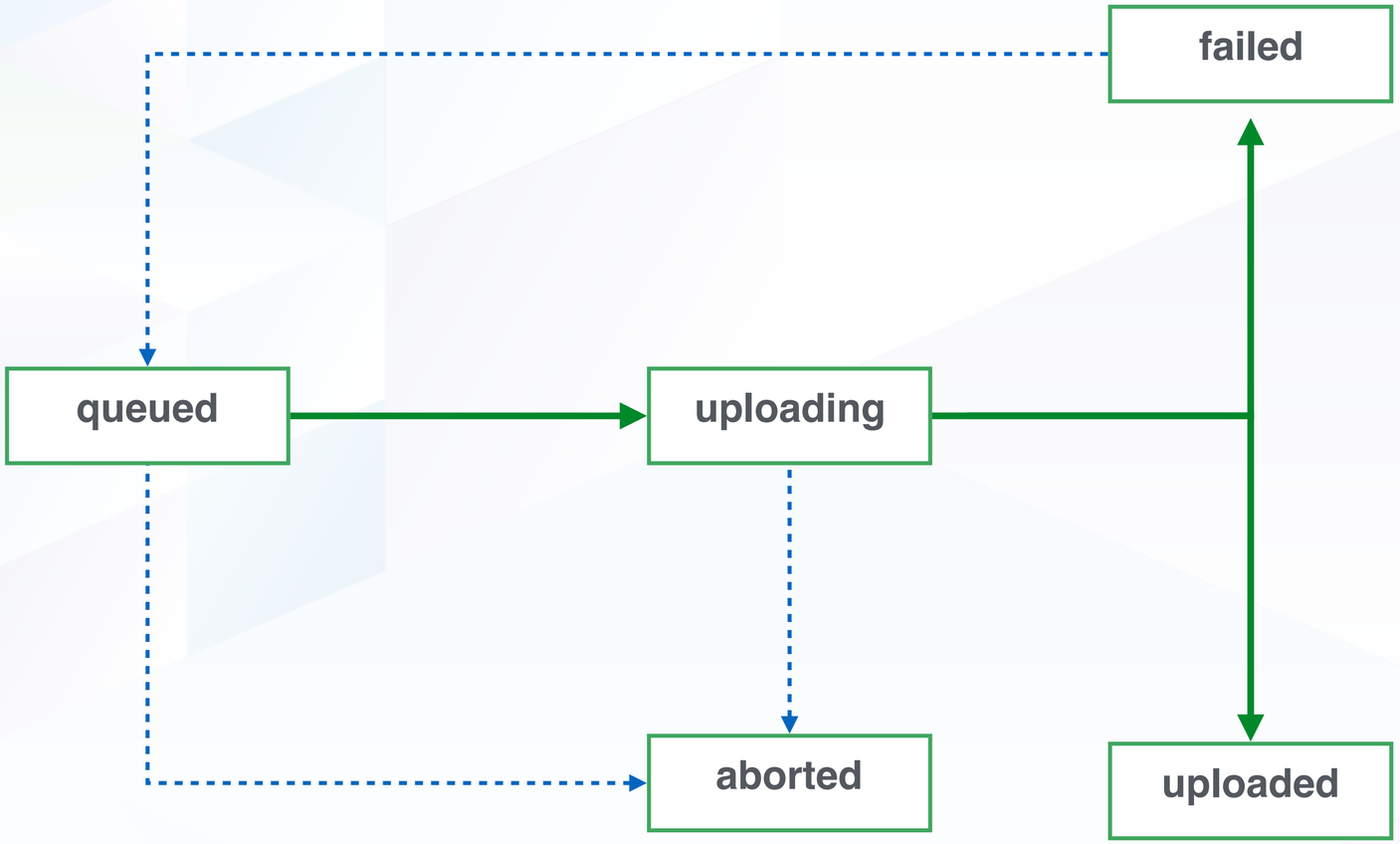
uploading

uploaded

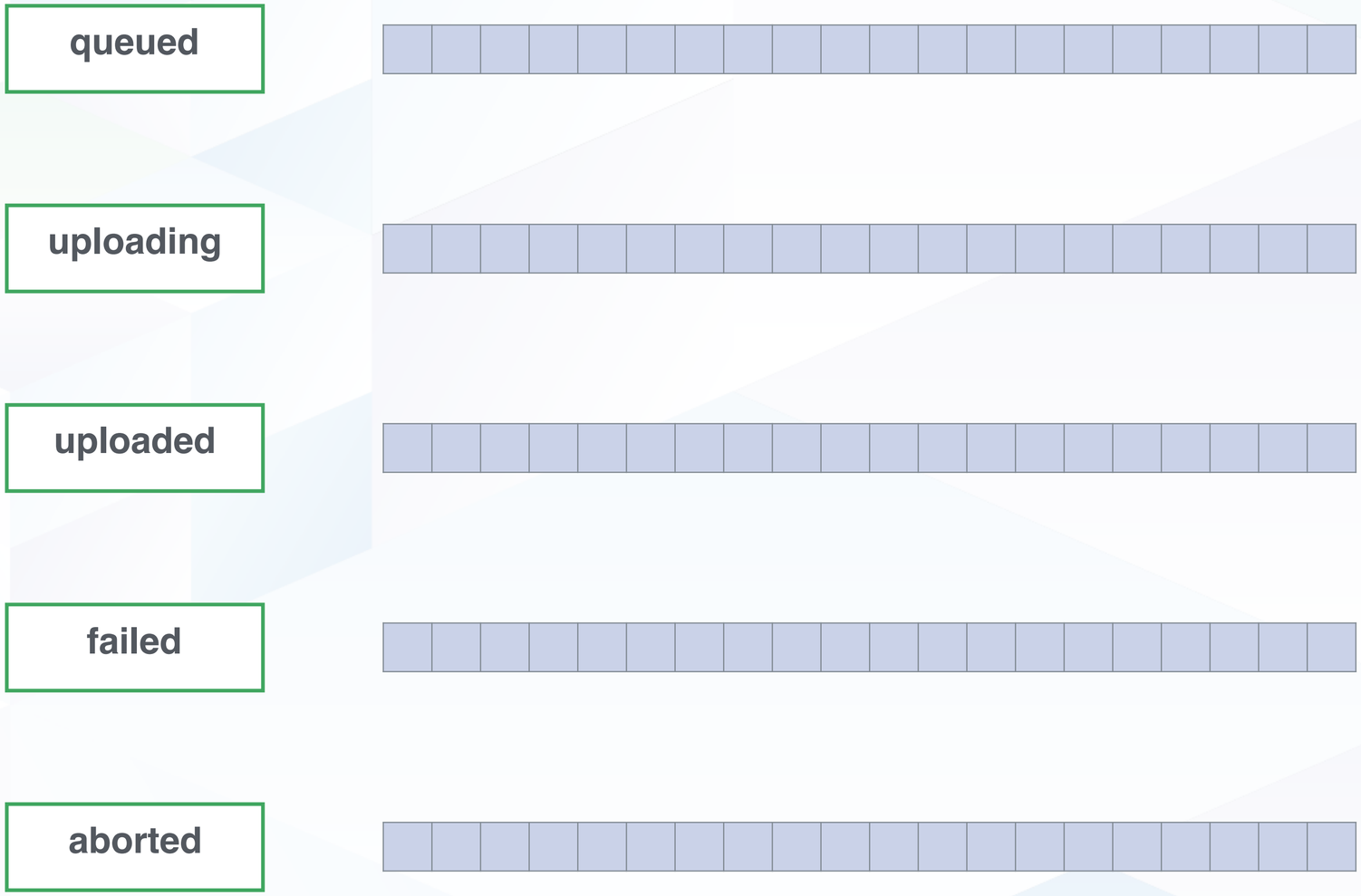
failed

aborted

QINGCLOUD



QINGCLOUD

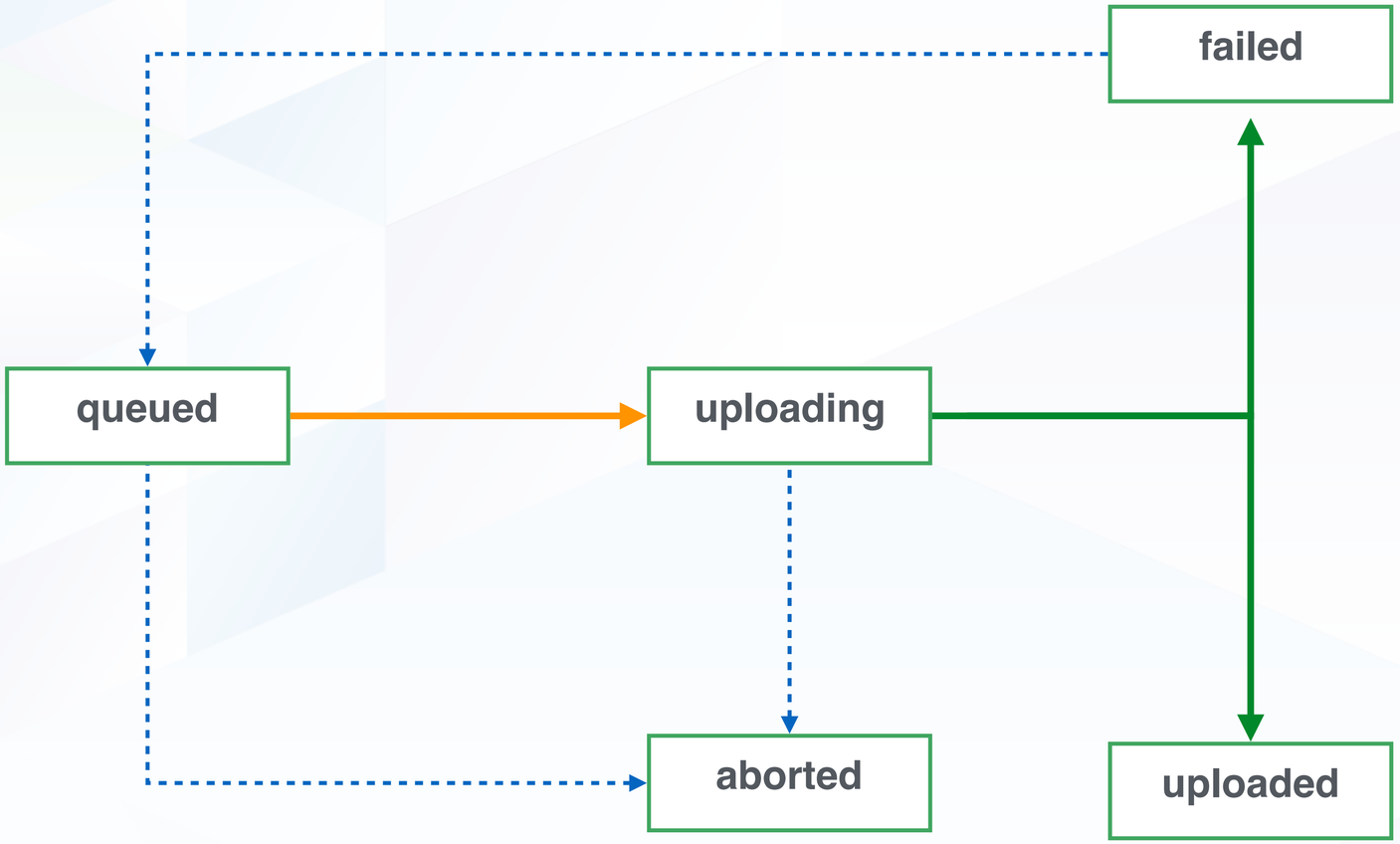


QINGCLOUD

初始化的工作：

- 生成唯一的 upload ID
- 初始化文件的状态
- 记录文件上传的 target folder
- 为文件上传操作生一个 cancelToken
- 将 upload ID 放到 queued 里

QINGCLOUD



QINGCLOUD

sendNextFile()

QINGCLOUD

```
sendNextFile() {
  while (this.hasAvailableWindow()) {
    const nextUploadId = this.queuedIds.shift();

    // reduce available window
    this.uploadingIds.push(nextUploadId);

    const nextFile = this.filesStore[nextUploadId];
    nextFile.status = 'uploading';

    this.sender(nextFile, {
      onUploadProgress: this.onUploadProgress,
    }, this.sharedLinkId).then(this.uploadSuccess, this.uploadFailed);
  }
}
```

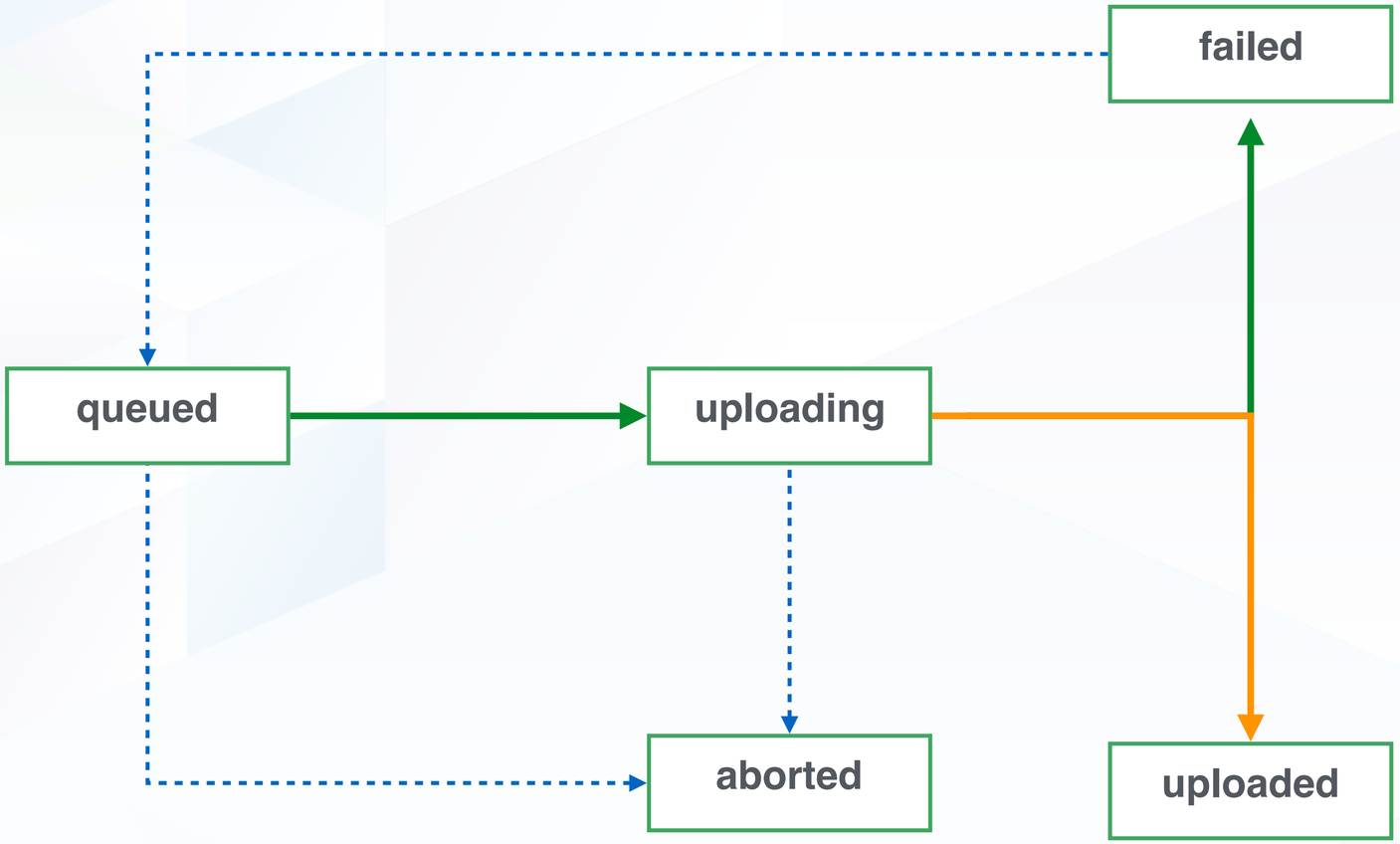
QINGCLOUD

```
hasAvailableWindow() {
  return this.queuedIds.length &&
    this.uploadingIds.length < MAX_CONNECTIONS;
}
```

QINGCLOUD

```
sendNextFile() {
  while (this.hasAvailableWindow()) {
    const nextUploadId = this.queuedIds.shift();

    // reduce available window
    this.uploadingIds.push(nextUploadId);

    const nextFile = this.filesStore[nextUploadId];
    nextFile.status = 'uploading';

    this.sender(nextFile, {
      onUploadProgress: this.onUploadProgress,
    }, this.sharedLinkId).then(this.uploadSuccess, this.uploadFailed);
  }
}
```

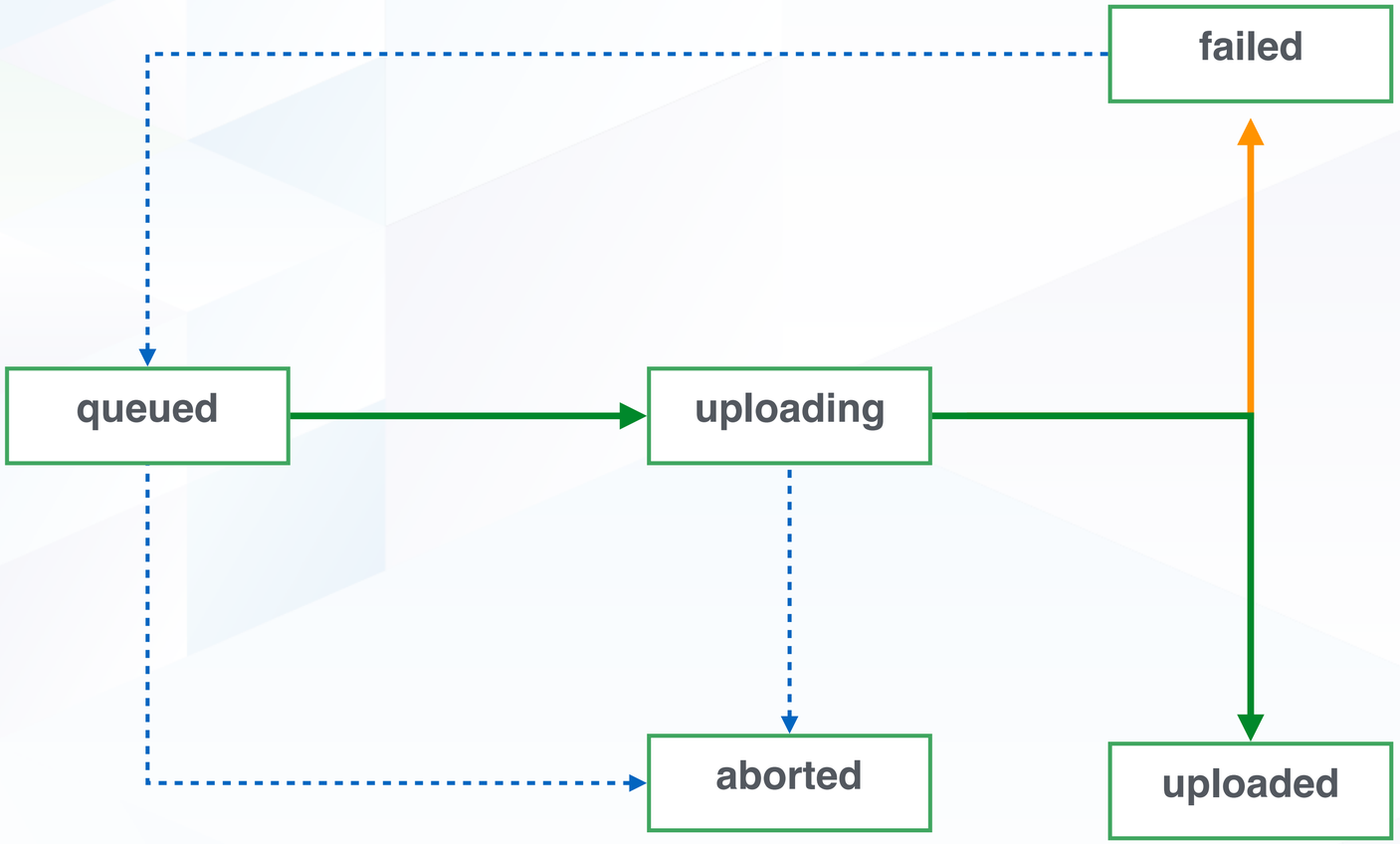
QINGCLOUD



QINGCLOUD

```
uploadSuccess(file) {
  if (file.canceled) {
    this.sendNextFile();
    return;
  }

  const index = this.uploadingIds.indexOf(file.uploadId);

  this.uploadingIds.splice(index, 1);
  this.uploadedIds.push(file.uploadId);

  this.filesStore[file.uploadId].message = '';
  this.filesStore[file.uploadId].versionId = file.versionId;
  this.filesStore[file.uploadId].status = 'uploaded';
  this.filesStore[file.uploadId].id = file.fileId;

  this.sendNextFile();
}
```

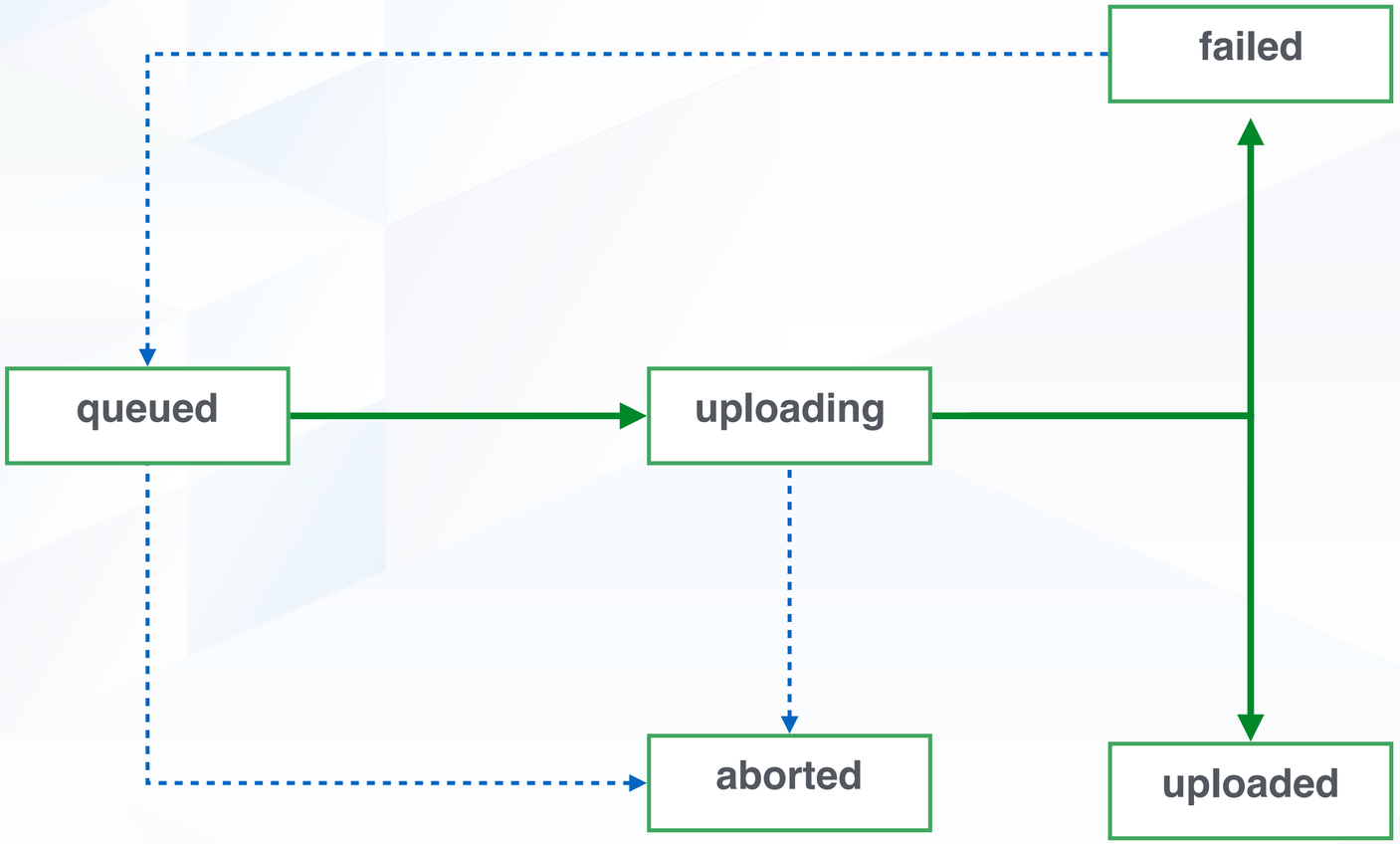
QINGCLOUD



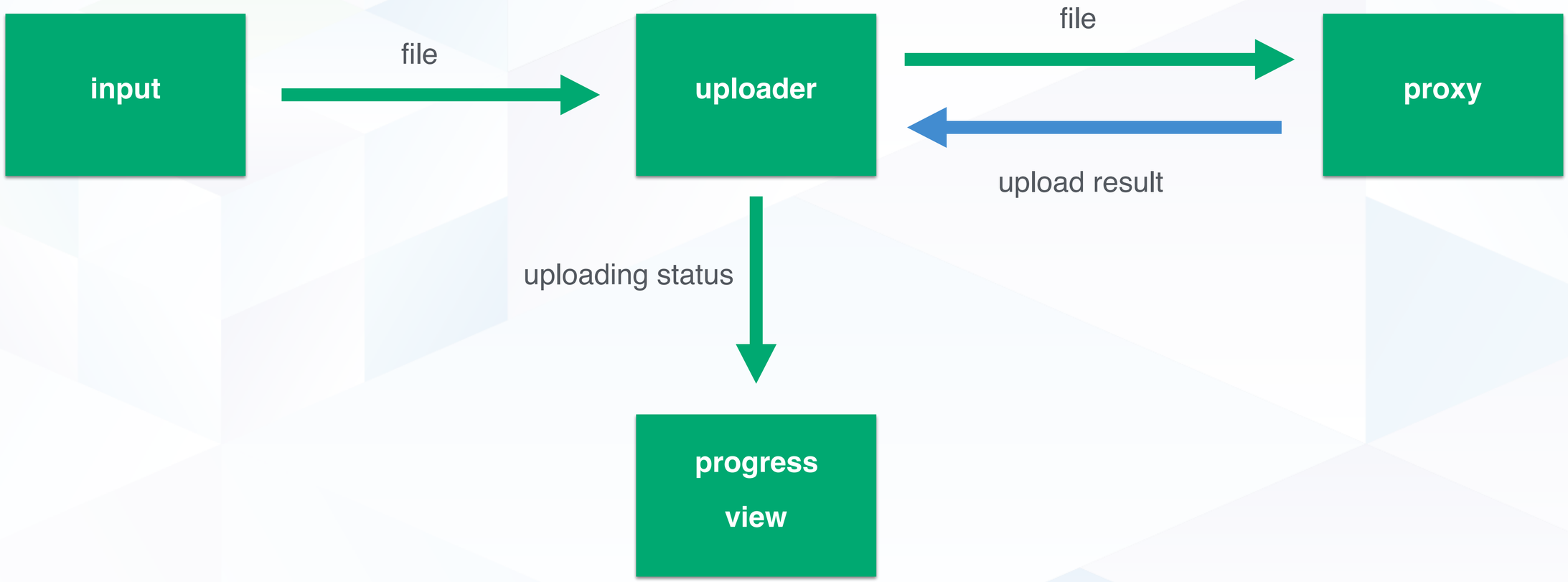
QINGCLOUD

```
uploadFailed(file) {
  logger.error(file);

  const index = this.uploadingIds.indexOf(file.uploadId);

  this.uploadingIds.splice(index, 1);

  this.failedIds.push(file.uploadId);

  this.sendNextFile();

  this.filesStore[file.uploadId].status = 'failed';
  this.filesStore[file.uploadId].message = file.message;
  this.filesStore[file.uploadId].code = file.code;
}
```

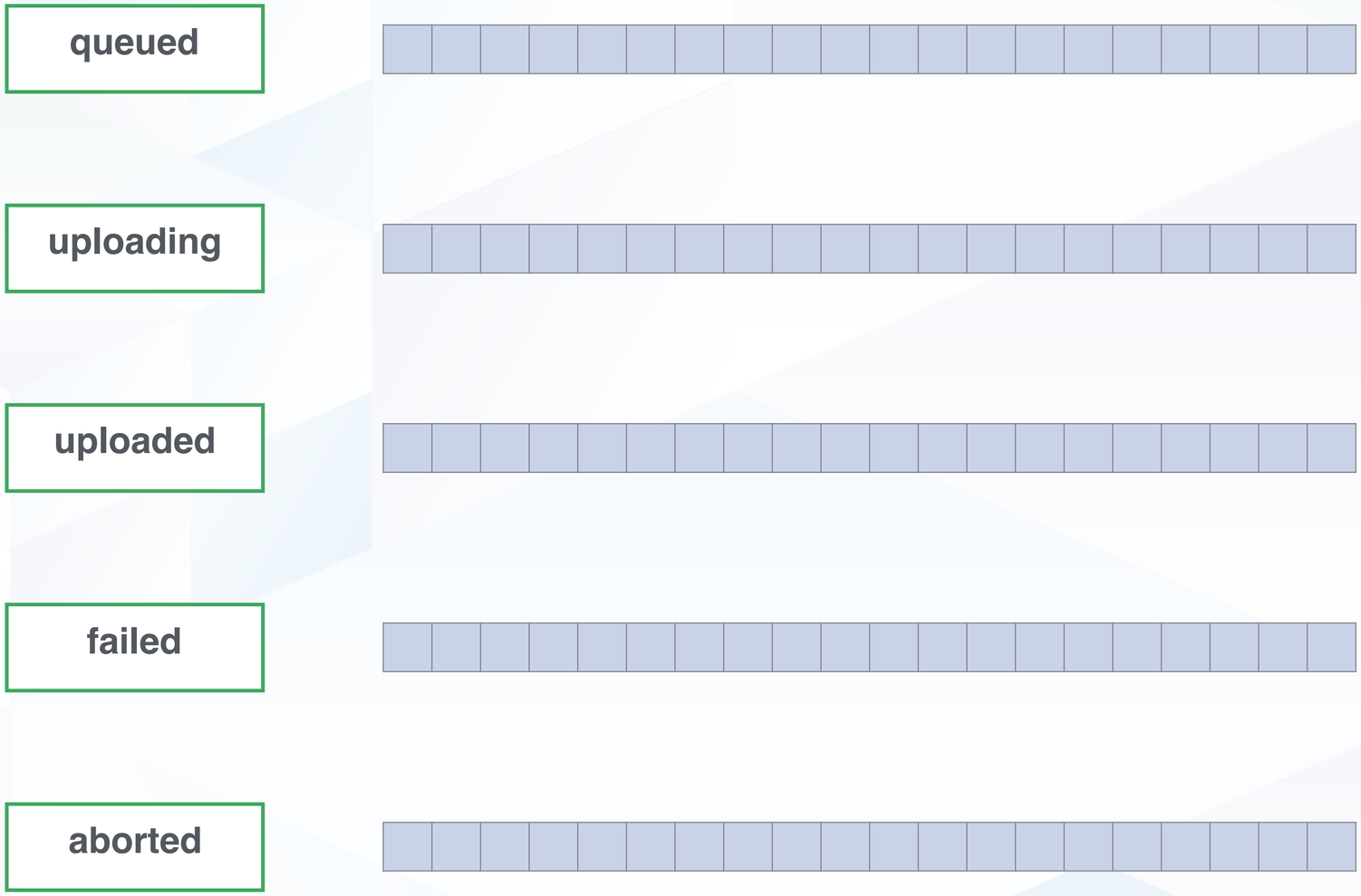
QINGCLOUD



QINGCLOUD


input
file
uploader
file
proxy
upload result
uploading status
progress
view

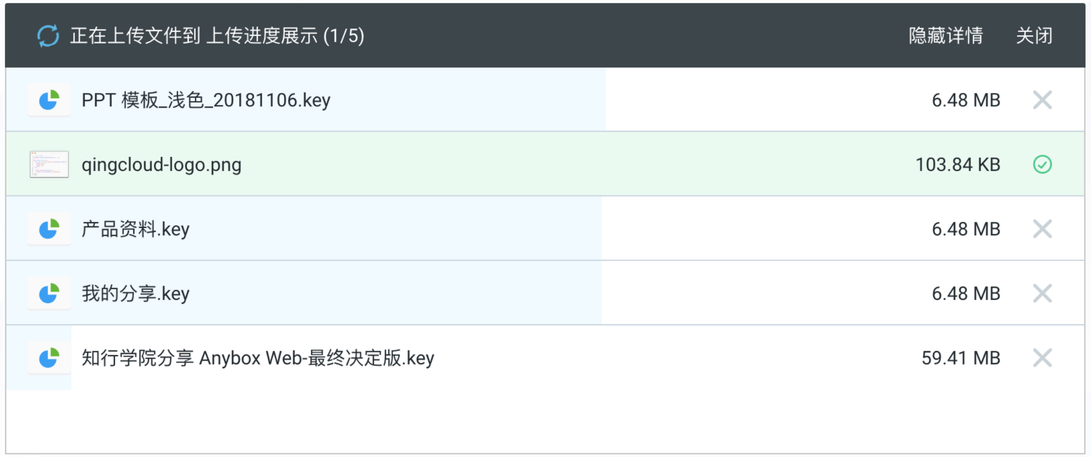
QINGCLOUD



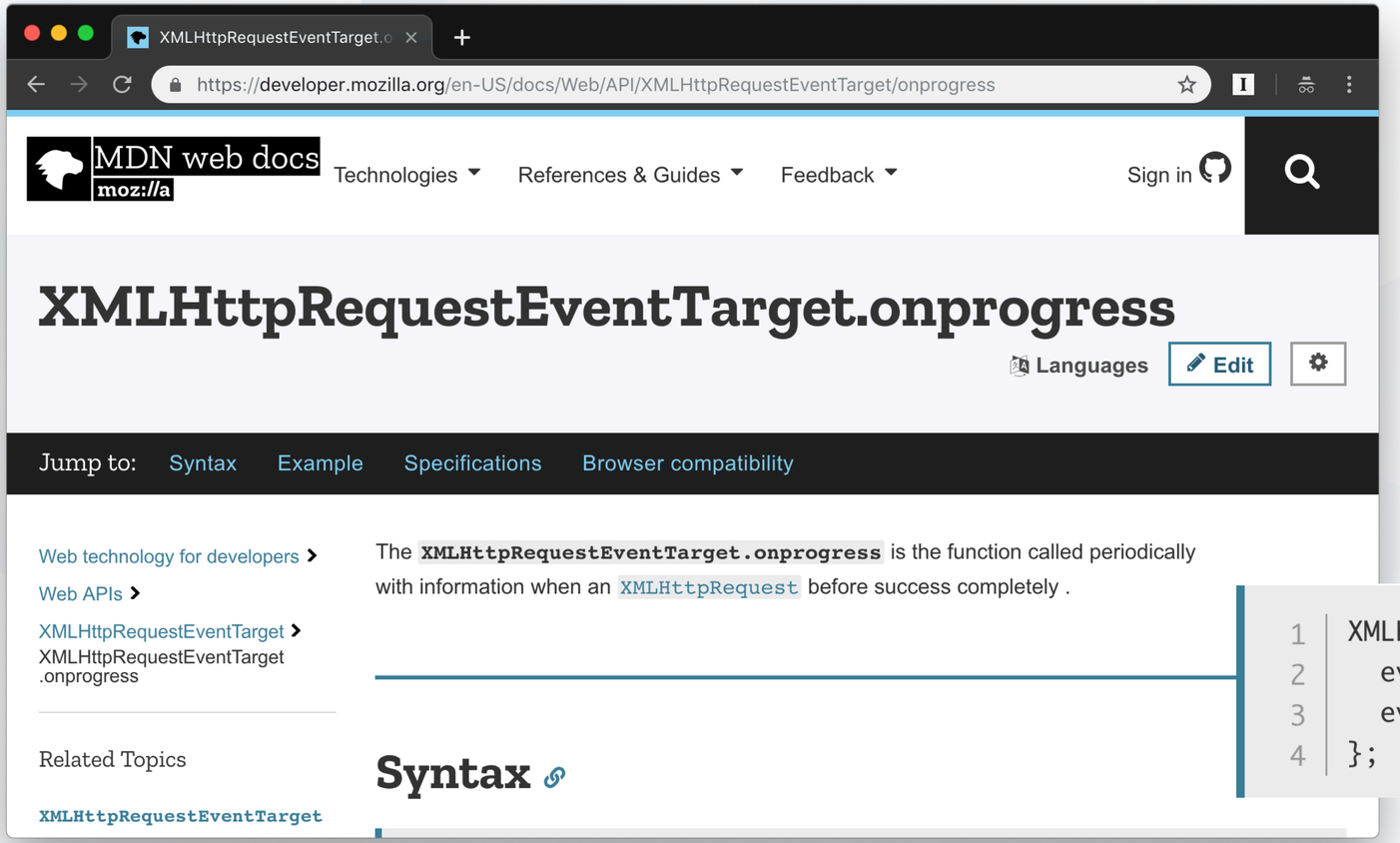
QINGCLOUD

待上传文件数量	this.queuedIds.length
上传成功的文件数量	this.uploadedIds.length
上传失败的文件数量	this.failedIds.length
取消上传的文件数量	this.abortedIds.length

QINGCLOUD

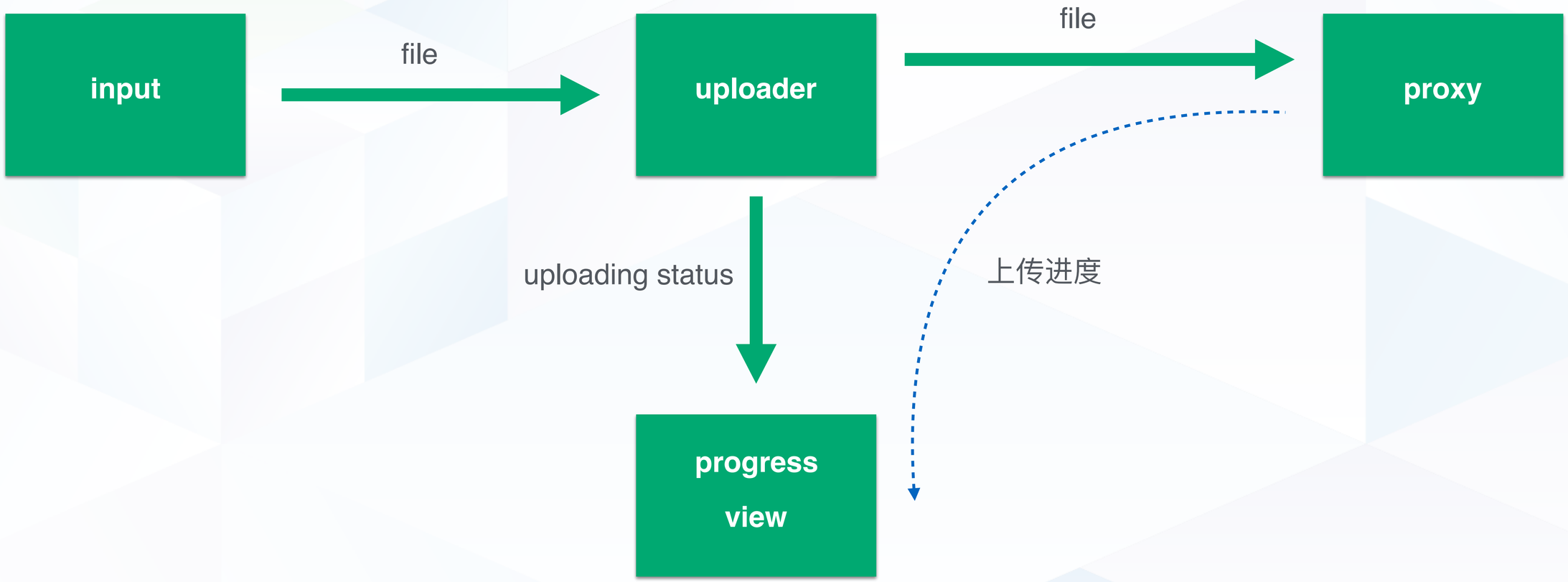

正在上传文件到 上传进度展示 (1/5)
隐藏详情
关闭
PPT 模板_浅色_20181106.key
6.48 MB
qingcloud-logo.png
103.84 KB
产品资料.key
6.48 MB
我的分享.key
6.48 MB
知行学院分享 Anybox Web-最终决定版.key
59.41 MB

QINGCLOUD

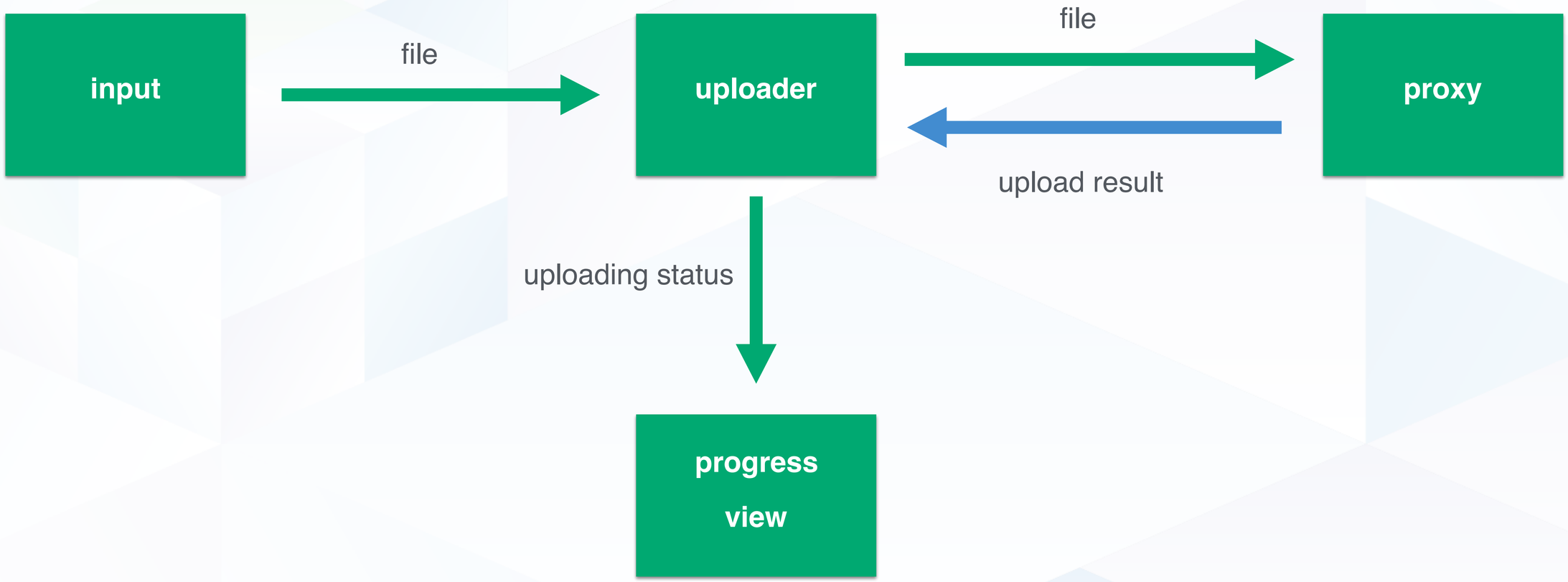



```
XMLHttpRequest.onprogress = function (event) {
  event.loaded;
  event.total;
};
```

QINGCLOUD


input
file
uploader
file
proxy
uploading status
上传进度
progress
view

QINGCLOUD


input
file
uploader
file
proxy
upload result
uploading status
progress
view

QINGCLOUD

1 技术栈

2 项目构建

3 文件上传

QINGCLOUD

QINGCLOUD

Thank you.

markduan@yunify.com