

cornnerstonetools+ohif viewer 框架二次开发评估表

框架链接

<https://zhuanlan.zhihu.com/p/58767457>

cornnerstonetools

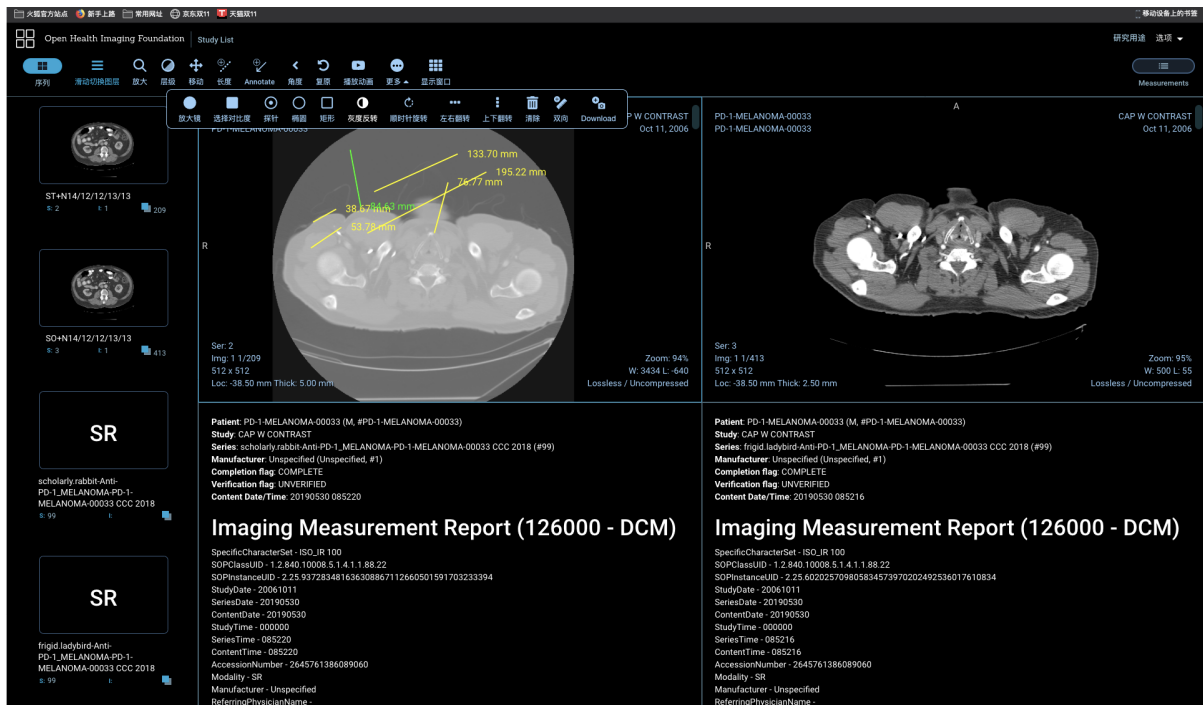
实现的功能：

- 探针、角度、长度、正交线、Cobb角测量
- 椭圆、矩形、自由区域测量
- 箭头、文字标注
- 画刷、橡皮

总结：

基本覆盖了医疗影像前端软件的基础和常用功能。但是标注这一块的数据没有接口，需要再次开发测量以及标注功能。支持使用vue框架，网上的资料较多，可以在cornnerstone.js基础上再开发。官方提供了一些工具可以直接使用，但是数据没有暴露出来，需要自己再次开发。

ohif viewer



功能见图，覆盖了医疗影像前端软件的基础和常用功能，功能较为丰富。暴露了部分标注数据的接口，但是二次开发难度有点大，遇到的问题主要有以下几点：

- 1、项目已经集成前后端，可以直接使用，但是代码量很大，需要花时间看源码。
- 2、原项目使用react框架，二次开发有一定的学习成本。

1、原项目已经把前后端写好了，后端是一个远程服务器
(<https://docs.ohif.org/configuring/data-source.html>)，如果我们要再开发得去读源码，遵循webdicom规范。

Data Source

After following the steps outlined in [Getting Started](#), you'll notice that the OHIF Viewer has data for several studies and their images. You didn't add this data, so where is it coming from?

By default, the viewer is configured to connect to a remote server hosted by the nice folks over at dcmjs.org. While convenient for getting started, the time may come when you want to develop using your own data either locally or remotely.

项目中推荐使用如下远程数据库框架

有一点需要强调说明，OHIFviewer是一个非常纯粹的前端viewer，它本身不存储和管理任何影像。而是通过配置文件，与第三方PACS Server对接，通过DICOMweb或DICOM Query/Retrieve方式来查询和获取影像。所以OHIFviewer不能单独部署使用，需要同时部署第三方PACS Server。官方推荐Othanc和dm4chee，以及Osirix。

Open Source DICOM Image Archives

Our example uses `Orthanc`, but there are a lot of options available to you. Here are some of the more popular ones:

Archive	Installation
DCM4CHEE Archive 5.x	W/ Docker
Orthanc	W/ Docker
DICOMcloud (DICOM Web only)	Installation
OsiriX (Mac OSX only)	Desktop Client
Horos (Mac OSX only)	Desktop Client

Feel free to make a Pull Request if you want to add to this list.

3、代码量庞大，之前在codesandbox试用demo出现奔溃的现象，本地运行项目有时候部分js也有错误的log,感觉需要一个有一定开发经验的前端工程师来修改项目，项目很多，后期可能不好维护，因为要加功能的话必须去看源码。

```
@ohif/viewer: Entrypoint app = app.css app.js app.71ce8b4a18ae01c2d675.hot-update.js
@ohif/viewer: WARNING in InjectManifest has been called multiple times, perhaps due to running webpack in --watch mode. The precache manifest generated after the first call will be ignored. Please see https://github.com/GoogleChrome/workbox/issues/1790 for more information.
@ohif/viewer: WARNING in /4.js is 6.32 MB, and won't be precached. Configure maximumFileSizeToCacheInBytes to change this limit.
@ohif/viewer: WARNING in /app.js is 48.7 MB, and won't be precached. Configure maximumFileSizeToCacheInBytes to change this limit.
@ohif/viewer: WARNING in /vendors-dicom-microscopy-viewer.js is 5.43 MB, and won't be precached. Configure maximumFileSizeToCacheInBytes to change this limit.
@ohif/viewer: ERROR in /Users/shaominchen/Documents/React/viewer/Viewers-master/extensions/cornerstone/src/ConnectedCornerstoneViewport.js
@ohif/viewer: Module build failed (from /Users/shaominchen/Documents/React/viewer/Viewers-master/node_modules/babel-loader/lib/index.js):
```