## *Part 3.  Video*

**50 points.**  Author two markup documents, each of which includes a video.  One video is delivered via HTTP download, and the other via RTMP and the Limelight CDN.

- Produce two markup pages, each containing the "Publishing a page on the course web server" video – one will use the HTTP download method, the other will use RTMP streaming.  The markup pages can be very "plain" – the main point here is to show you can include video in a page using Javascript and a video player..
    - Files:
        - `video/video_http.html`
        - `video/video_rtmp.html`
- Use **either** JW Player or Flowplayer (both are widely used Flash-based video players).  You get to choose which one – you do not need to use both.  I recommend using the JW Player, as it is easier to configure; however, you are welcome to use the open source Flowplayer if you wish.  If there is another player you wish to use (see http://praegnanz.de/html5video/), you are free to do so.
- Use Javascript to include the video in the page (i.e. do not use "embed" or "object" tags).  You should use the Javascript libraries that come with the video player you are using.

### Video information

- Title: "Publishing a page on the course web server"
- Dimensions:  height: 600px; width: 800px
- HTTP download URL:
  https://s3.amazonaws.com/cscie12/screencasts/publishing_on_web_server.mp4
- Streaming information:
    - Application path:
      `rtmp://s35uyvud967x16.cloudfront.net/cfx/st/`
    - Stream identifier:
      `mp4:screencasts/publishing_on_web_server.mp4`
- For your interest only (nothing "actionable" here):  I am using Amazon S3 to deliver the HTTP download video and Amazon Cloudfront to deliver the RTMP streaming video.  See: http://www.learningapi.com/streamingmedia-articles/amazon-cloudfront-streaming/ for details.  Amazon S3 and Cloudfront are an easy and inexpensive way to host files to download and stream videos.

## Notes for JW Player

- Home page: http://www.longtailvideo.com/jw-player/
- Download page: http://www.longtailvideo.com/jw-player/download/
  You should use the free version using the
  *"Free Download JW Player for Non-Commercial Use"* button
- Documentation: http://www.longtailvideo.com/support/jw-player/
- RTMP streaming information:
  http://www.longtailvideo.com/support/jw-player/28854/using-rtmp-streaming
- For RTMP streaming, the application path is combined with the stream identifier:
  `rtmp://s35uyvud967x16.cloudfront.net/cfx/st/mp4:screencasts/publishing_on_web_server.mp4`

## Notes for Flowplayer 5.4.1

- Home page: http://flowplayer.org/
- **Use "Flowplayer HTML5"**, not "Flowplayer Flash"
- You can either download flowplayer, or use versions on the flowplayer CDN
  - Download page: http://flowplayer.org/download/
    ZIP: http://releases.flowplayer.org/5.4.1/flowplayer-5.4.1.zip
  - CDN versions:  See "2. <head/> setup" section at
    http://flowplayer.org/docs/
- Documentation: http://flowplayer.org/docs/
- RTMP streaming information:
  http://flowplayer.org/docs/#server-side
- Note that for RTMP streaming, there is a `data-rtmp` attribute of the containing `div`, whose value is the "Application path" of the video.  There is also a `src` attribute for the `source` element within the `video` element, whose value is the "Stream identifier" of the video:
  - `data-rtmp="rtmp://s35uyvud967x16.cloudfront.net/cfx/st/"`
  - `<source src="mp4:screencasts/publishing_on_web_server.mp4" … />`



JW Player – HTTP Download
(Stream version looks identical)



Flowplayer – HTTP Download
(Stream version looks almost identical)