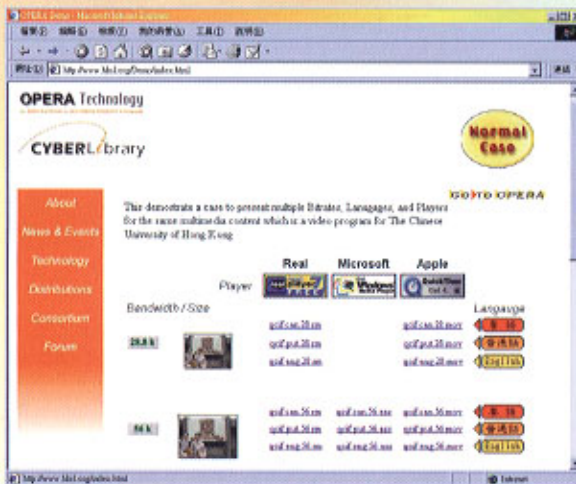
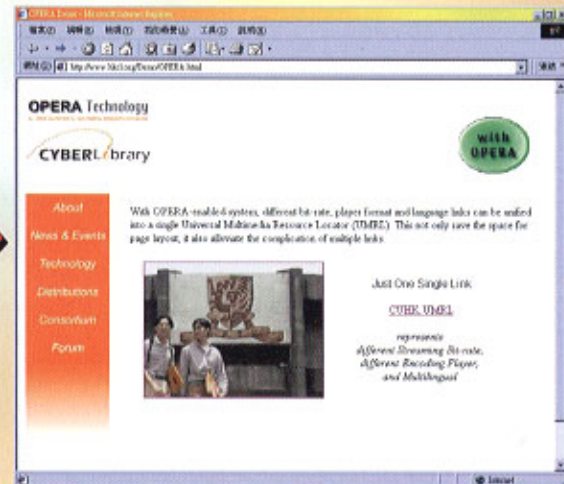


挑戰與機會

Challenges and Opportunities



<http://www.hkcl.org/Demo/>



雖然，今日不少互聯網站已採用了以影音為主的設計，但多媒體檔案的處理和發送往往造成複雜的介面，這不僅令一般的使用者感到困惑，此外，更給各互聯網商帶來不少的挑戰；其中包括：

- 多樣化的檔案格式，例如：Real, Microsoft Media, QuickTime, MPEG, 等；
- 多樣化的編碼速率，例如：28.8kbps, 56kbps, ISDN, T1 等；

因此，一般的處理手法是提供多重連結定位給同一條影片，這樣不單不能提供一個簡潔清楚的使用者介面，好讓他們選擇出一個最為合適的連結定位；更甚的是一但選擇錯誤，可能會引至一連串的技术問題。

於 **OPERA** 的發展計劃上，我們的目的是發展出一套可供各資訊供應商和互聯網商所使用的單一整合連結定位給每一個多媒體物件，這樣，使用者便可以無需理會各樣組合的系統裝置，只要透過我們的系統，便能選取到一個最為合適的發送檔案。

Although today many Internet web sites already contain a fair amount of multimedia content like audio and video, the way these contents are managed and retrieved poses challenges not only to end users, but also the Internet Service Providers. Specifically, they have to deal with:

- various media formats such as Real, Microsoft Media, QuickTime, MPEG, etc.
- various encoding rates such as 28.8kbps, 56kbps, ISDN, T1, etc.

Consequently, it is often necessary to provide multiple links for just a single video clip. This unintuitive interface could easily confuse most users and selecting the correct link could be a challenge to the ordinary. Worst, if one happens to select an incorrect link, various errors and problems could result.

In **OPERA** project, we aimed to develop tools for the content provider and the Internet Services Provider so that there will be a single, unified link for a multimedia object. Users will no longer need to know their connections and their installed software options before clicking. Our system will select the best choice for them, transparently and automatically.

