

## Creation of SMIL file using ppt2smil

We have tested one of the SMIL authoring tools, **ppt2smil**, to create synchronized multimedia lecture. Here we describe the procedure. This test was done on Windows XP system.

### ppt2smil:

The vide-recorded PowerPoint presentation can be converted into a streaming SMIL file using the *ppt2smil* tool.

The *ppt2smil* tool can be downloaded at:

<http://atlas.dsv.su.se/~pierre/os/ppt2smil/>

In this page, click and download the [ppt2smil.ppt](#), which is an empty PowerPoint file containing the embedded *ppt2smil* macro. Open the empty **ppt2smil.ppt** file and import all your presentation slides to this file and rename it.

### To record a video and convert to SMIL.

1. You need:
  - Video camera.
  - Software to record the video presentation.
  - Software to convert the video file to the RealMedia format (“rm” format).  
There will be many free softwares for the conversion.
2. Recording process:
  - a. Start recording your video presentation.
  - b. Start “Slide Show → Rehearse Timings” in PowerPoint.  
(Start steps “a” and “b” at the same time)
3. Stop the recording process and the slide show at the same time.
4. Convert the video file to the RealMedia format (“rm” format) and name it as, say, “lecture\_video.rm”.
5. In PowerPoint, select **Tools → Macro → Macros →** select the macro “**SaveAsSMIL**” and click **RUN**.  
This will open a pop-up window as shown below.

- Type <http://bioinfo.el.kyutech.ac.jp/lecture.ram> in the “URL-address for publication” field.
- Enter the time delay between steps 2a and 2b, if any, in the “First slide time correction” field. If there is no time delay, enter “0”.
- Choose “Video presentation” and fill the sub fields.
  - Enter the title of your presentation in the “Heading” field. This will be displayed on top of the presentation.
  - Enter your name and any other details in the “sub heading” field. This will be displayed just below the heading.
  - Enter the name of the video file in the “File name(s) video file(s)” field.
  - Enter the mime-type of the video file in the field “Mime-type(s).

*See an example below:*

- Click the **OK** button. The *ppt2smil* macro produces the SMIL file in a sub folder. For example, if your PowerPoint file name is “AbrenLecture”, *ppt2smil* macro will create a new folder “AbrenLecture\_smil” in the same directory. This folder will contain all the necessary files.
6. Copy the video file into this newly created folder.
  7. Play the SMIL file using “RealPlayer” and check whether it has been recorded properly and the PowerPoint slides are synchronized with the video presentation.
  8. Burn the entire content of this folder (including the video file) into a CD/DVD and send to us.