

# Theme Design and Design Document for Media Framework Scenes

SonicXP Sp2015

Module 3.3.1

# Scene Design

- Scene is a set of objects
  - media objects (as assets) and code objects
- Scene design is to curate assets and to design a set of related keywords and themes
- ✓ Each Scene needs Design Document to manage assets, keywords and themes

Skills to learn:

1. Design: a set of keywords for a single asset and for groups of similar assets; relationship btw keywords and themes
2. Design Document: Project life-cycle management of design document

# Keyword, Theme

- Keyword and Theme are text *strings*
  - Used as unique computed values
  - Keywords entered as “tags” separated by commas: “BP 300hz, periodic echo, El train, free field, short dur”,
  - Spaces can be included in keywords and themes
- Requires consistent spelling and capitalization when the string value is intended to be the same

# Spelling and capitalization consistency

SOUNDFILE NAME	Source/history	Content Keywords	Processing Keywords	Technical Keywords	Potential THEMES
Congress	Chicago, IL April 14 2015; 44.1khz mono; Congress and Wabash intersection	Cars, ambience	High Pass Filter, Stereo panning	Background, low end frequency attenuation	Cars <
Congress2Chorus	Chicago, IL April 14 2015; 44.1khz mono; Congress and Wabash intersection	Cars, ambience	High Pass Filter, chorus delay, Stereo panning, amplitude control	Background, low end frequency attenuation	Cars <
parking garage	Chicago, IL April 14 2015; 44.1khz mono; Parking garage in 777 S State St building	air conditioner, Squeak, ambience	High Pass Filter, [Band pass filters, delay,] Stereo panning, amplitude control	Background, low end frequency attenuation	Air conditioner, squeaks
State	Chicago, IL April 14 2015; 44.1khz mono; State and Van Buren intersection	Beeps, Cars, Bus, squeak, ambience	High Pass Filter, [Band pass filters, delay,] Stereo panning, amplitude control	Background, low end frequency attenuation, High frequency noise	Cars, Beeps
State4EQDelay	Chicago, IL April 14 2015; 44.1khz mono; State and Van Buren intersection	Beeps, Cars, Bus, squeak, ambience	High Pass Filter, [Band pass filters, delay,] Stereo panning, amplitude control	Background, low end frequency attenuation, High frequency noise	Car, Beeps

# Best to NOT use same word for Keyword and Theme

SOUNDFILE NAME	Source/history	Content Keywords	Processing Keywords	Technical Keywords	Potential THEMES
Congress	Chicago, IL April 14 2015; 44.1khz mono; Congress and Wabash intersection	<b>Cars</b> , ambience	High Pass Filter, Stereo panning	Background, low end frequency attenuation	<b>Cars</b>
Congress2Chorus	Chicago, IL April 14 2015; 44.1khz mono; Congress and Wabash intersection	<b>Cars</b> , ambience	High Pass Filter, chorus delay, Stereo panning, amplitude control	Background, low end frequency attenuation	<b>Cars</b>
parking garage	Chicago, IL April 14 2015; 44.1khz mono; Parking garage in 777 S State St building	<b>air conditioner</b> , <u><b>Squeak</b></u> , ambience	High Pass Filter, [Band pass filters, delay,] Stereo panning, amplitude control	Background, low end frequency attenuation	<b>Air conditioner</b> , <u><b>squeaks</b></u>
State	Chicago, IL April 14 2015; 44.1khz mono; State and Van Buren intersection	<b>Beeps</b> , <b>Cars</b> , Bus, squeak, ambience	High Pass Filter, [Band pass filters, delay,] Stereo panning, amplitude control	Background, low end frequency attenuation, High frequency noise	<b>Cars</b> , <b>Beeps</b>
State4EQDelay	Chicago, IL April 14 2015; 44.1khz mono; State and Van Buren intersection	<b>Beeps</b> , <b>Cars</b> , Bus, squeak, ambience	High Pass Filter, [Band pass filters, delay,] Stereo panning, amplitude control	Background, low end frequency attenuation, High frequency noise	<b>[Car]</b> , <b>Beeps</b>

# Themes: set of Keywords

```
{  
  "name": "SonicXP ichoi TSquare",  
  "maximumOnScreen": {  
    "image": 3,  
    "text": 1,  
    "video": 1,  
    "audio": 4  
  },  
  "displayDuration": 10,  
  "themes": {  
    "Tiananmen Children": "general, children",  
    "Tiananmen Soldiers": "general, marching"  
  },  
  "style": {  
    "backgroundColor": "grey"  
  },  
}
```

Recommendation:  
In general use different words for  
themes and keywords

Be sure to have at least one unique keyword for each resource.  
 (Is it OK to have keywords in common, but not ALL in common. Why?)

SOUNDFILE NAME	Source/history	CONTENT KEYWORDS	Processing	Technical Keywords	Unique Keywords	Potential THEMES
Congress	Chicago, IL April 14 2015; 44.1khz mono; Congress and Wabash intersection	Cars, ambience	High Pass Filter, Stereo panning	Background, low end frequency attenuation	none	Cars
Congress2Chorus	Chicago, IL April 14 2015; 44.1khz mono; Congress and Wabash intersection	Cars, ambience	High Pass Filter, chorus delay, Stereo panning, <u>amplitude control</u>	Background, low end frequency attenuation	chorus delay	Cars
parking garage	Chicago, IL April 14 2015; 44.1khz mono; Parking garage in 777 S State St building	air conditioner, <i>Squeak</i> , ambience	High Pass Filter, [Band pass filters, delay,] Stereo panning, <u>amplitude control</u>	Background, low end frequency attenuation	air conditioner	Air conditioner, squeaks
State	Chicago, IL April 14 2015; 44.1khz mono; State and Van Buren intersection	Beeps, Cars, Bus, <i>squeak</i> , ambience	High Pass Filter, [Band pass filters, delay,] Stereo panning, <u>amplitude control</u>	Background, low end frequency attenuation, High frequency noise	none	Cars, Beeps
State4EQDelay	Chicago, IL April 14 2015; 44.1khz mono; State and Van Buren intersection	Beeps, Cars, Bus, <i>squeak</i> , ambience	High Pass Filter, [Band pass filters, delay,] Stereo panning, <u>amplitude control</u>	Background, low end frequency attenuation, High frequency noise	none	Car, Beeps

# Unique keywords enable access to individual sounds (below: Colored sets of keywords are 100% the same.)

SOUNDFILE NAME	Source/history	CONTENT KEYWORDS	Processing	Technical Keywords	Unique Keywords	Potential THEMES
Congress	Chicago, IL April 14 2015; 44.1khz mono; Congress and Wabash intersection	Cars, ambience	High Pass Filter, Stereo panning	Background, low end frequency attenuation	none	Cars
Congress2Chorus	Chicago, IL April 14 2015; 44.1khz mono; Congress and Wabash intersection	Cars, ambience	High Pass Filter, chorus delay, Stereo panning, <u>amplitude control</u>	Background, low end frequency attenuation	chorus delay	Cars
parking garage	Chicago, IL April 14 2015; 44.1khz mono; Parking garage in 777 S State St building	air conditioner, <i>Squeak</i> , ambience	High Pass Filter, [Band pass filters, delay,] Stereo panning, <u>amplitude control</u>	Background, low end frequency attenuation	air conditioner	Air conditioner, squeaks
State	Chicago, IL April 14 2015; 44.1khz mono; State and Van Buren intersection	Beeps, Cars, Bus, <i>squeak</i> , ambience	High Pass Filter, [Band pass filters, delay,] Stereo panning, <u>amplitude control</u>	Background, low end frequency attenuation, High frequency noise	none	Cars, Beeps
State4EQDelay	Chicago, IL April 14 2015; 44.1khz mono; State and Van Buren intersection	Beeps, Cars, Bus, <i>squeak</i> , ambience	High Pass Filter, [Band pass filters, delay,] Stereo panning, <u>amplitude control</u>	Background, low end frequency attenuation, High frequency noise	none	Car, Beeps



# Using Boolean operators with keywords for more detailed control of themes

```
{  
  "name": "TSquare Boys & Girls",  
  "maximumOnScreen": {  
    "image": 3,  
    "text": 2,  
    "video": 4,  
    "audio": 2  
  },  
  "displayDuration": 10,  
  "displayInterval": 5,  
  "transitionDuration": 1.4,  
  
  "themes": {  
    "Princess Dreams": "(girl AND idol), (pink AND umbrella), (girl AND posing)",  
    "Ballerinas": "dancing, spinning",  
    "The Generals": "(toy car AND drive), policeman"  
  },  
}
```

# Limited control of asset display:

```
{  
  "name": "TSquare Boys & Girls",
```

```
  "maximumOnScreen": {
```

```
    "image": 3,
```

```
    "text": 2,
```

```
    "video": 4,
```

```
    "audio": 2
```

Number of layers is defined separately for each asset type.

The following controls are in seconds, for the entire scene:

```
  },
```

```
  "displayDuration": 10,
```

For static assets only (text, still images)

```
  "displayInterval": 5,
```

Onset timing from one resource to the next,  
managed separately for each asset type

```
  "transitionDuration": 1.4,
```

Media crossfade duration when changing Themes

```
  "themes": {
```

```
    "Princess Dreams": "(girl AND idol), (pink AND umbrella), (girl AND posing)",
```

```
    "Ballerinas": "dancing, spinning",
```

```
    "The Generals": "(toy car AND drive), policeman"
```

```
  },
```