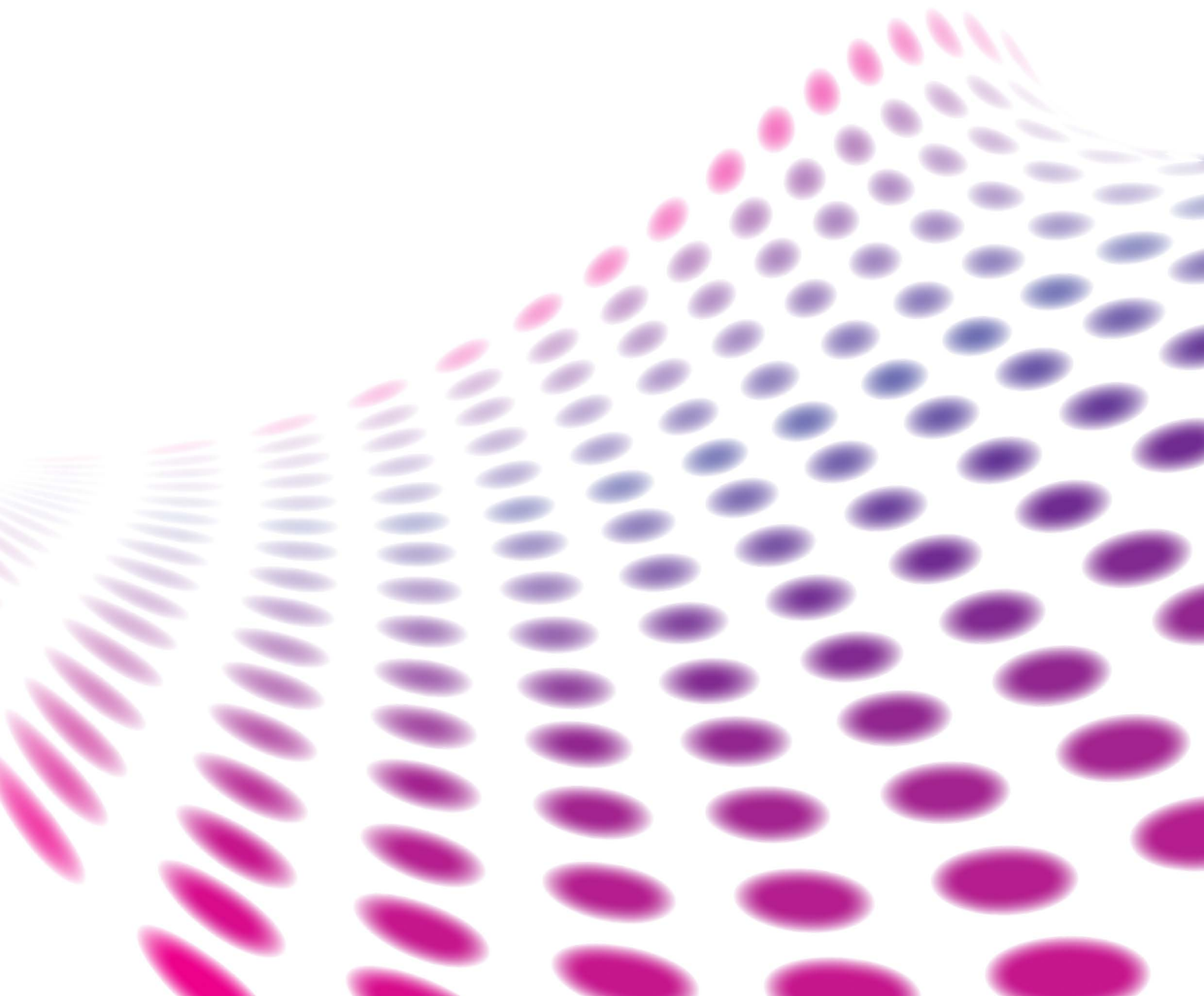




dreamoc™

content production manual
version 1.2



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Dreamoc Content Philosophy.

The Dreamoc gives an illusion of the science fiction hologram, known from movies like Star Wars and Star Trek.

It is important to try, in all parts of a Dreamoc production, to support this experience/illusion. For example by working with more simple objects, having a 60% maximum picture surface, so that the object is still very much cut out on the black background.

Also please avoid using standard video production effects such as simple cuts (change of angle), wipes, dissolves (unless to/from black) etc.

“We borrow the veracity of the physical world, by setting our video pixels up in an actual space. This is the secret behind the attention that we attract when we show pictures in the Dreamoc.” says Peter Simonsen.

The Dreamoc show films based on the Cut Out Video philosophy; in other words, the format is free and unframed, as the idea is to break out of the frameworks and instead use actual space as the framework for narration and the video image.

A perfect Dreamoc experience will exist, when you experience that reality becomes a scene for the virtual object, and thereby emphasizes the presence of some isolated 3D. It is the real physical room that gives the third dimension.

“We simply use physical space to create a three-dimensional feeling, as though the object was actually present in the space.” says Peter Simonsen.

This manual is intended for clients and partners who want to make their own computer animated content for the Dreamoc system.

To achieve a good result, it is very important during production, to have samples of the content evaluated by RealFiction or an authorised RealFiction partner.

All material must be finalised by either RealFiction or an authorised RealFiction partner.

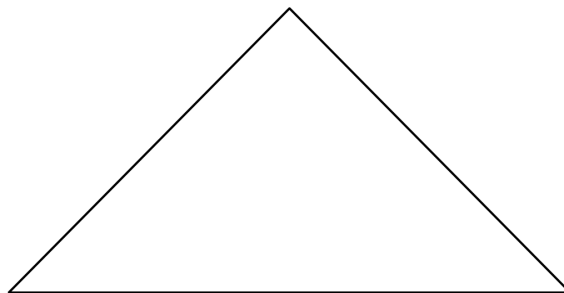
Delivery Standards

- Content (one side of the pyramid) should be in either XGA (1024x768) or SVGA (800x600) resolution square pixels.
- Frame rate must be 30 fps non-interlaced.
- The ideal file format is a sequence of compressed TGA single frames. JPG sequence will also do.
- Soundtrack (if used) should be delivered in a separate 16 bit, 48.000 kHz, stereo Wave file.

Animation guidelines

First of all it's important to remember, that content for the Dreamoc systems will be seen as floating holographic objects inside a pyramid shaped glass chamber.

The pyramid shaped chamber consists of 3 triangular sides. The content displayed in each side of a Dreamoc is normally identical at all times (unless you wish to experiment with different content, that do not mix on the corners). This means that making content for the Dreamoc is making one side only! It also means that the content basically is shown inside a triangle.

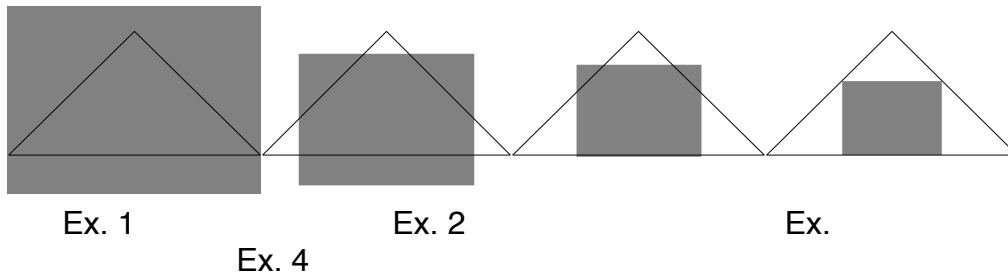


It is recommended to:

- Apply rotation to all objects including text.
- Give objects a “floating” movement to enhance the illusion of a free-floating holographic object.
- Place the camera according to the centre of the object.
- All text should have 3D depth. A good idea is to make it rotate in a circle around the objects.

Scaling

The size of the holographic object depends on the shape and movement of the content. Below is 4 examples of how content is scaled to fit inside the Dreamoc, according to how big a part of the 4:3 image is being used by the content.



Ex. 1: To use the entire triangle ⁽¹⁾, you would have to restrain yourself to a small part of the 4:3 image.

Ex. 2: This would typically be a wide but not very tall object. It could be a car that you want as big as possible.

Ex. 3: This is what we normally recommend. At least keep the top corners of the 4:3 image free, in order to get a bigger holographic object.

Ex. 4: This is a consequence of the full 4:3 image being used.

As a guide you can use the “Dreamoc Triangle guide.tif” file as an overlay when animating the content. Simply scale it to the desired size. This way you will have a better feeling of how the content will appear within the Dreamoc.

(1): Note that in most constructions the tip is not usable.

Light

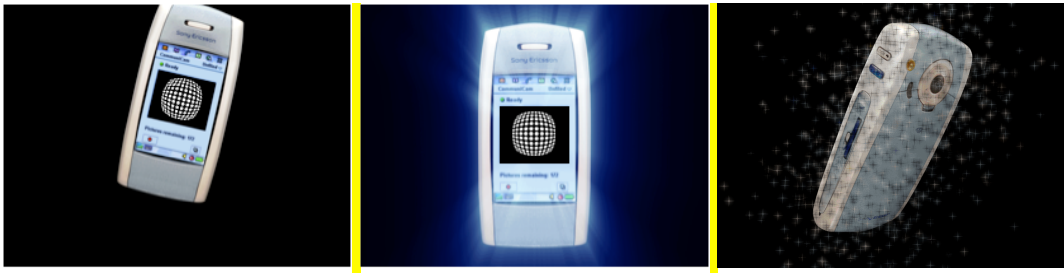
Black is invisible in movies shown in a Dreamoc (or 100% transparent), and gradients close to black are hard to see. A dark shadow on the object might therefore be seen as a hole in the object.

It is recommended to:

- Give the object(s) a more even light than you normally would, avoiding too many and too hard shadows.
- Give the object(s) a bit more light than you normally would, allowing the holographic object to appear more vivid and clear.

What NOT to do

- The content must NEVER exceed the 4:3 image. Be sure that no part of the object(s) goes beyond the boundaries of the image. Pay extra attention to light beams, glow, particles etc.



- Avoid static objects. Make sure to add movement and/or rotation to all objects including text.

All content for the Dreamoc should be made in dialogue with either RealFiction or an authorised RealFiction partner.

Finalising content for Dreamoc

Finalising is the process from your “one side” master animation, to the three sided Dreamoc movie that is compressed and ready to be inserted into (or uploaded via internet to) a Dreamoc unit with a player supplied by RealFiction.

Finalising can be done in different types of compositing software, but for this description we use Adobe After Effects.

- Open the Dreamoc After Effects template.
- Import your master animation.
- Place it in the “Edit here” composition.
- It is important that you do any editing inside this composition only. So scale and position your animation here.
- Go to the composition “Check size and position”.
- Turn on the layer called “22” Guide” to check how your animation fits the Dreamoc format.
- If you need to change any scaling or position, go back to the “Edit here” composition and do the corrections there. Do NOT change any settings in the “ Check size and position” composition!
- Once you are happy with scaling and positioning, turn off the guide layer.
- Go to the “Render for Dreamoc player” composition.
- Match your Work Area to the length of the animation, and choose “Make movie”.
- Render an MPEG2 file with the following settings:

1024x768 (controlled by your comp settings)

Quality: 5 (max)

TV Standard: NTSC

Frame Rate: 30 fps (unless you have changed it through all your compositions)

Field Order: None (Progressive)

Pixel Aspect Ratio: Square Pixels (1,000)

Profile: High

Level: High

Variable Bitrate (VBR): Min 4 Mbps, Target 5 Mbps, Maximum 6 Mbps.

Leave the rest of the settings to default.

Audio:

If you use audio ensure these settings is in use:

Check in “Export Audio”

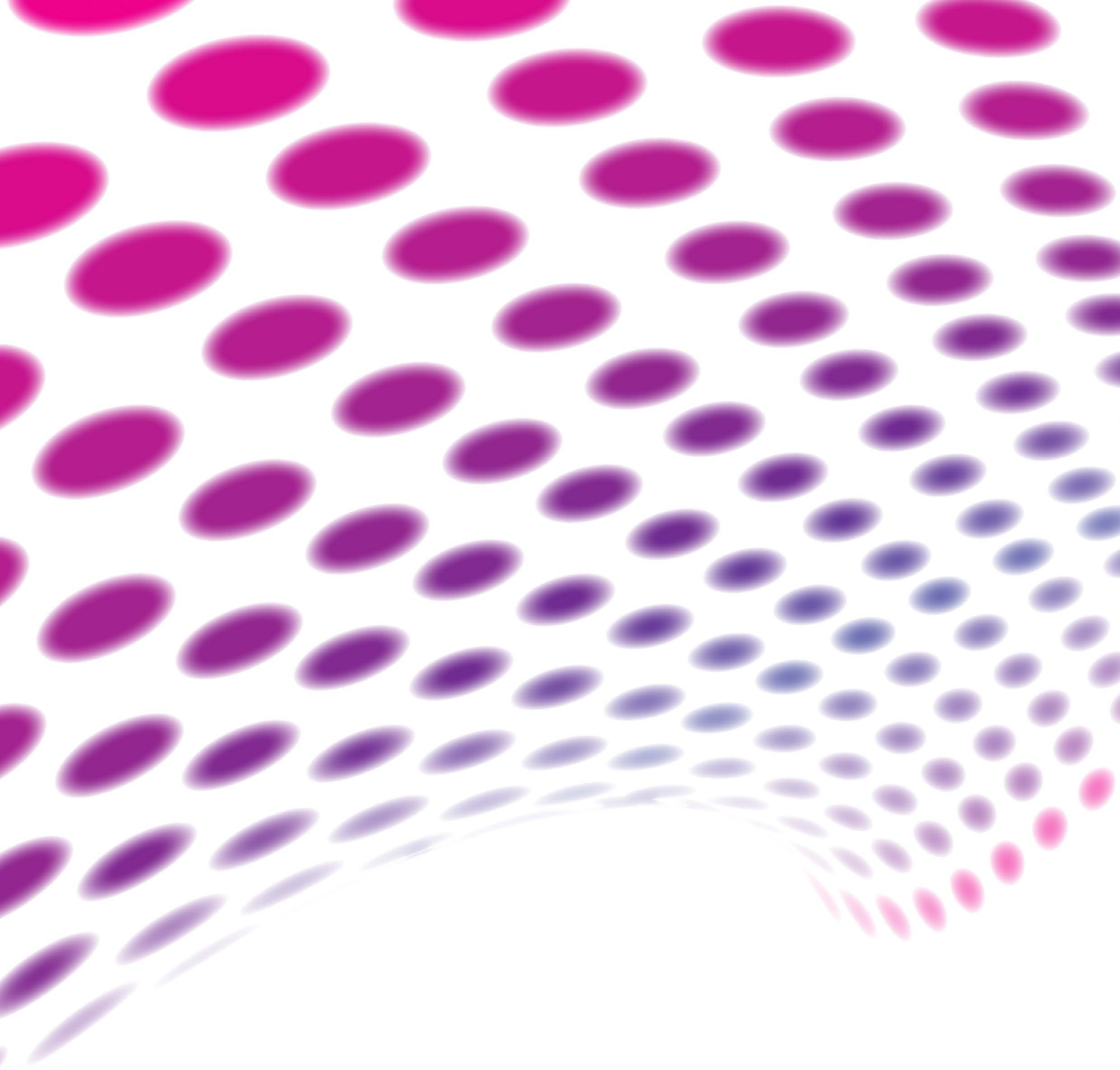
Audio Format: MPEG

Audio Layer: MPEG-1, Layer II Audio

And that Multiplexer is set to MPEG2.

Best Regards

Clas Dyrholm
RealFiction



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