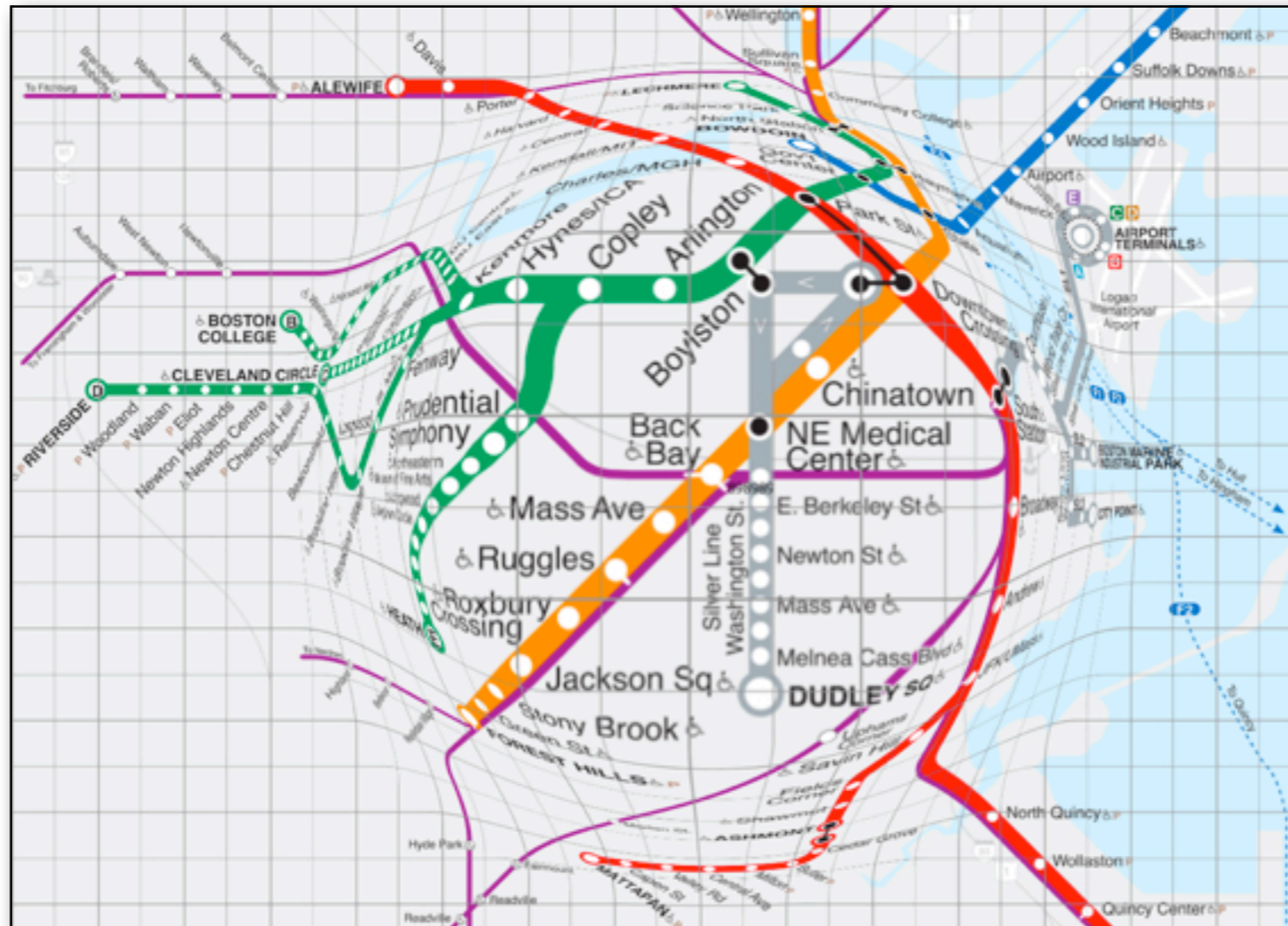
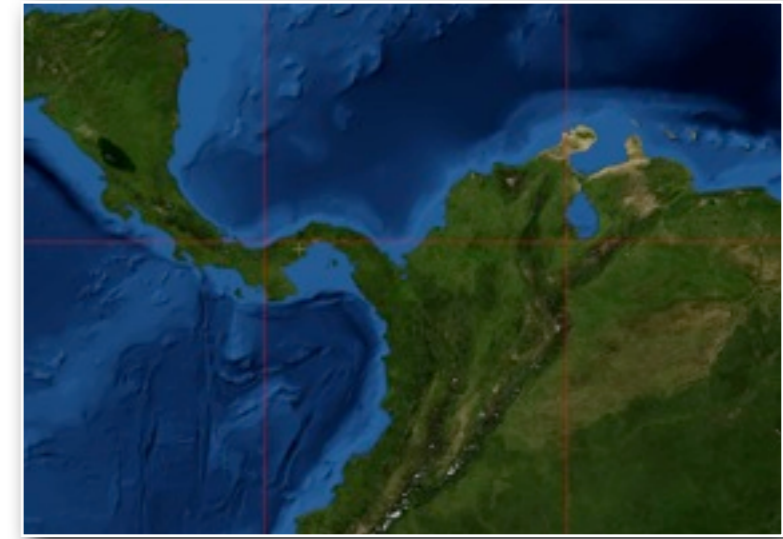
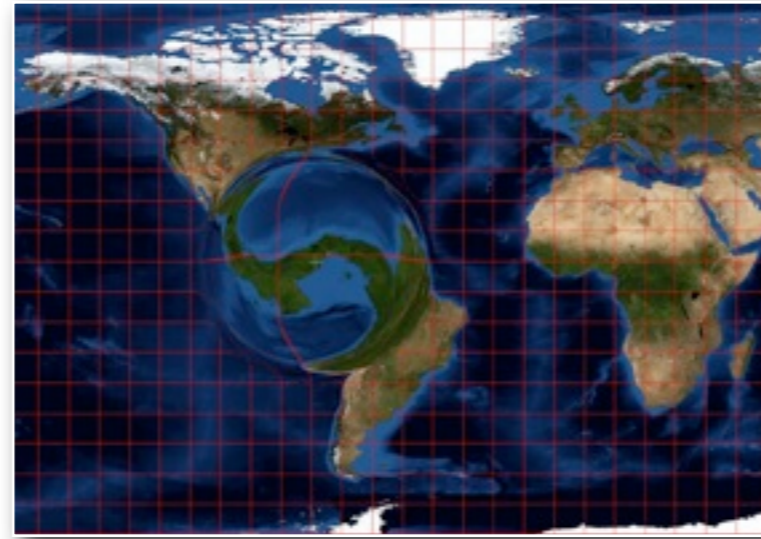
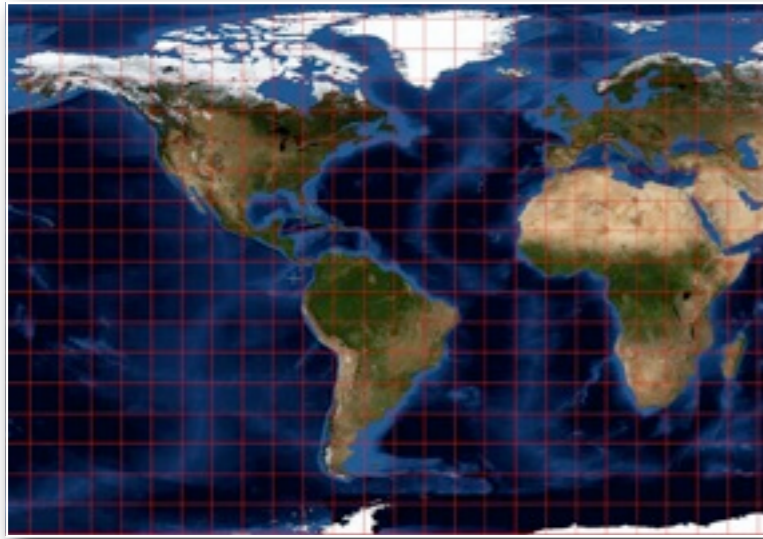
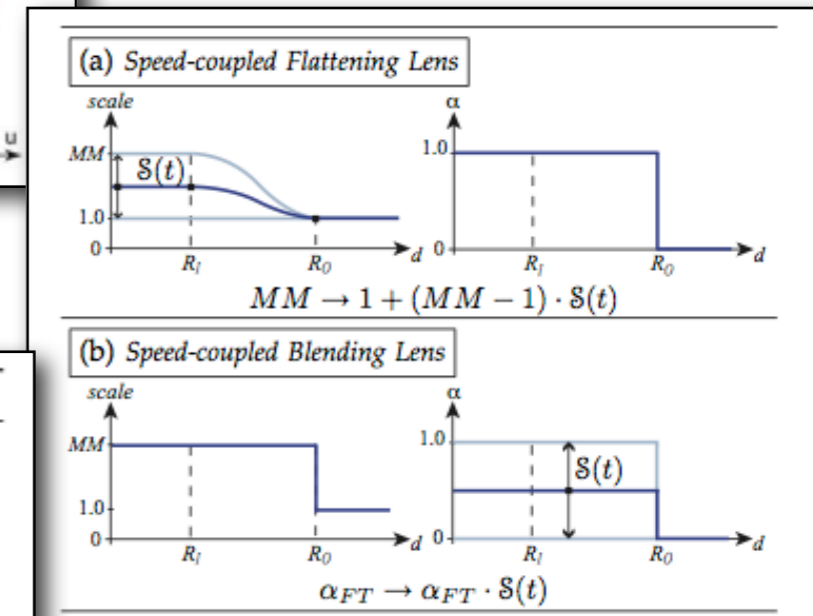
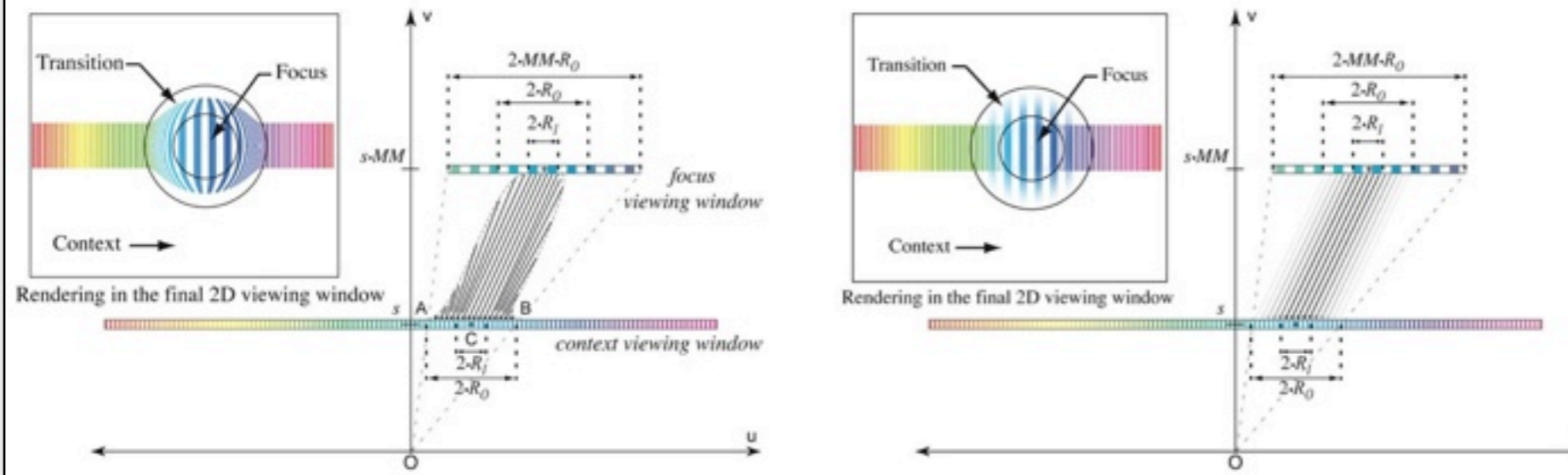
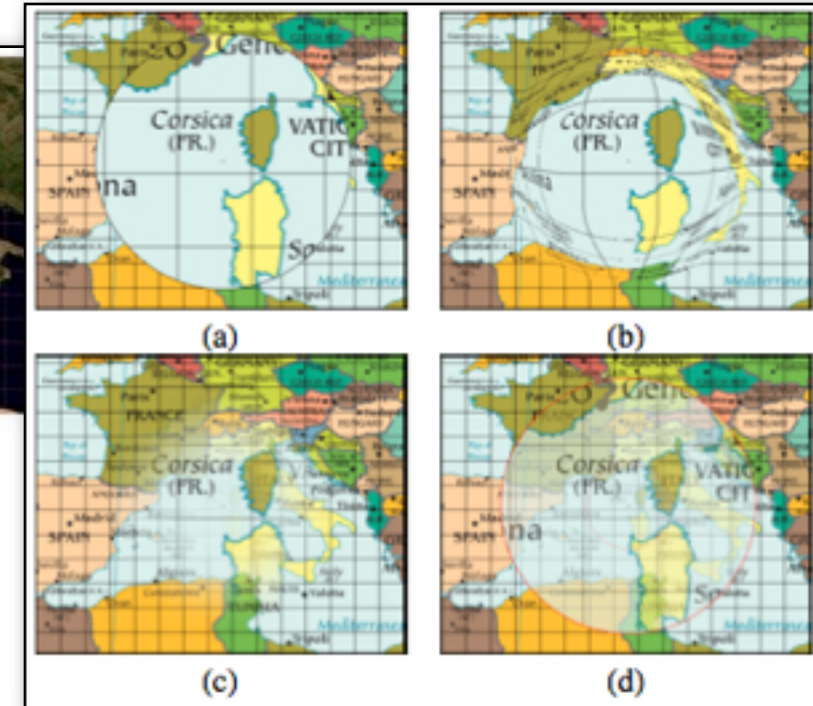
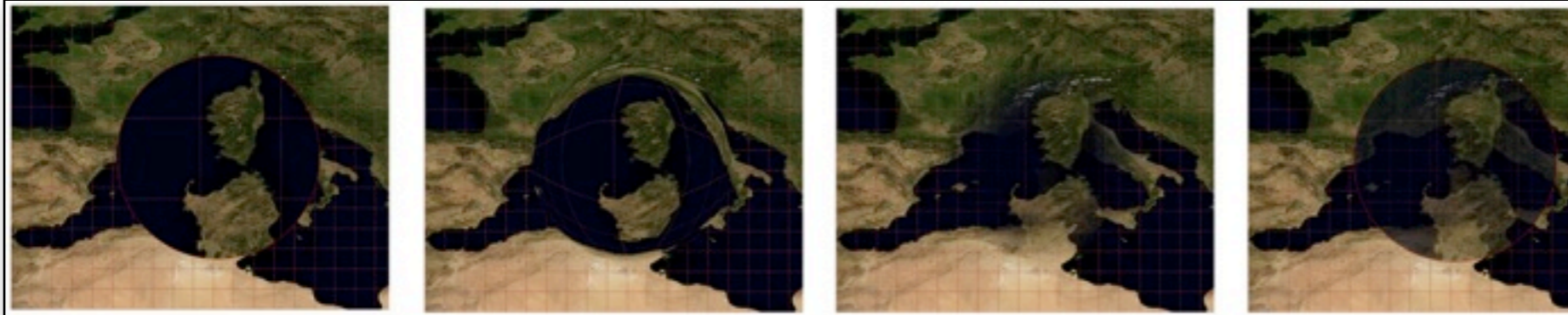


Focus+context Visualization



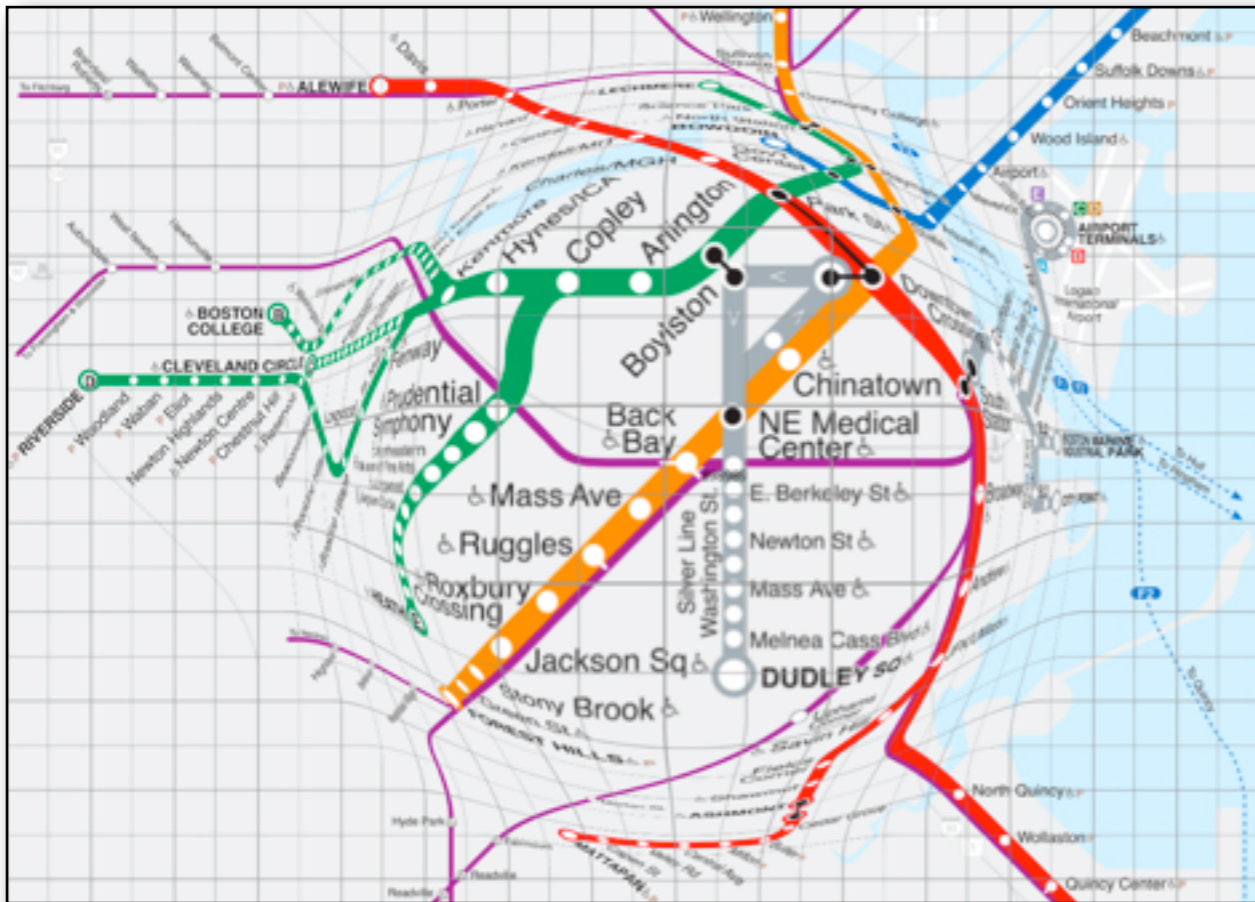
Focus+context Visualization Sigma Lenses



Definition 1: displacement and compositing function \mathcal{R}

$$\mathcal{R}(x, y) = \begin{cases} \left(x_c + \frac{x-x_c}{MM}, y_c + \frac{y-y_c}{MM} \right) \otimes_{\alpha_{FT}} (x, y) & \{V(x, y) | \mathcal{D}(x, y) \leq R_I\} \quad (1.1) \\ \left(x_c + \frac{x-x_c}{g_{scale}(\mathcal{D}(x, y))}, y_c + \frac{y-y_c}{g_{scale}(\mathcal{D}(x, y))} \right) \otimes_{g_{comp}(\mathcal{D}(x, y))} (x, y) & \{V(x, y) | R_I < \mathcal{D}(x, y) < R_O\} \quad (1.2) \\ (x, y) & \{V(x, y) | \mathcal{D}(x, y) \geq R_O\} \quad (1.3) \end{cases}$$

Extension to Adaptive Lenses



- Content-aware shape & size adaptation
- Based on a restricted set of predefined shapes
- OpenGL + Shaders or Java2D

http://www.lri.fr/~pietriga/2009/09/internship_al.pdf

emmanuel.pietriga@inria.fr