

# Creating Animations with R

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The R package **animation** (Xie, 2010) was designed to demonstrate and explain statistical ideas in an interesting way. Xie and Cheng (2008) is a short introduction to this package. In this talk, we will give a few examples in statistics first, ranging from the classical probability theory and mathematical statistics (e.g. Buffon's needle, CLT) to applications in model diagnostics (e.g. outlier detection). Then we will introduce four approaches in the **animation** package to create animations with R, i.e. via HTML, GIF, Flash and L<sup>A</sup>T<sub>E</sub>X. Finally we will take a look at other possibilities to create animations, such as **swfDevice** (Bracken, 2009) and **SVGAnnotation** (Temple Lang, 2009).

## References

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