1 Motivation

It all started with a pair of Sicherman dice. If you want to typeset a face of a six-sided die with 8 dots on it, the epsdice package will fail. So, I created a TiKZ-based alternative to epsdice, and extended it somewhat.

2 Commands

This package provides the following commands:

The styling of the output can be customized through

```
\label{eq:maybedice} $$\max \ \ensuremath{\mathsf{maybedice}} \ \ensuremath{\mathsf{setnodestyle}} \ \ensuremath{\langle \mathsf{style} \rangle} $$\mbox{maybedice setborderstyle} \ \ensuremath{\langle \mathsf{style} \rangle} $$
```

or reset to default by \maybediceresetstyles.

3 Epsdice alternative

maybedice command	output of epsdice / maybedice / maybevardice
$\mbox{\mbox{\tt maybedice}\{1\}}$	•/•/•
$\mbox{\tt maybedice}\{2\}$	
$\mbox{maybedice}{3}$	
$\mbox{\tt maybedice}\{4\}$	
$\mbox{\tt maybedice}\{5\}$	
$\mbox{\tt maybedice}\{6\}$!! / !!! / !!!
$\mbox{\tt maybedice}\{7\}$	/ H / III
$\mbox{\tt maybedice}\{8\}$	/ 🔛 / 🔛
$\mbox{\tt maybedice}\{9\}$	/ /

The size of output generated by \maybedice, \maybevardice, or \maybemaskdice may be changed by using changing the optional scaling parameter which defaults to 1.0.

The \maybemaskdice command takes in a comma-separated list of three "decimal masks" (not binary!) that determines where to draw dots on a 3-by-3 grid of the face.

For example, \maybemaskdice[1.4]{100, 001, 001} produces :.

4 Origami

In addition to individual dice faces, the command

$$\verb|\maybetinyorigamidice|| \{ \langle \texttt{facelabels} \rangle \}|$$

provides an in-text origami of a die, where facelabels is a comma-separated list of the labels on the faces of the die. The standard die would look like this: $\frac{6}{2 \cdot 3 \cdot 5 \cdot 4}$.

The

$$\verb|\maybeorigamidice|{\langle \texttt{facelabels} \rangle}|$$

command provides a "full-sized" origami of a die:

