```python
"""Make a counts image with Gammapy."""
from gammapy.data import EventList
from gammapy.image import SkyImage
events = EventList.read('events.fits')
image = SkyImage.empty(
  nxpix=400, nypix=400, binsz=0.02,
  xref=83.6, yref=22.0,
  coordsys='CEL', proj='TAN',
)
image.fill_events(events)
image.write('counts.fits')
```