```
In [5]: %load_ext autoreload
        %autoreload 2

        import sys
        sys.path.append("..")

        from IPython.display import SVG, display
        from dibu import parse
        from xml.dom.minidom import parseString as xmlParse
```

```
In [6]: def show(dibu_prog):
            output = parse(dibu_prog)
            pretty_xml = xmlParse(output).toprettyxml()
            print(pretty_xml)
            return SVG(output)

        show('''

        size height=200, width=200

        rectangle upper_left=(0,0), size=(50, 50), fill="red"
        rectangle upper_left=(100,0), size=(50, 50)

        rectangle upper_left=(50,50), size=(50, 50)
        rectangle upper_left=(150,50), size=(50, 50)

        rectangle upper_left=(0,100), size=(50, 50)
        rectangle upper_left=(100,100), size=(50, 50)

        rectangle upper_left=(50,150), size=(50, 50)
        rectangle upper_left=(150,150), size=(50, 50)


        ''')
```
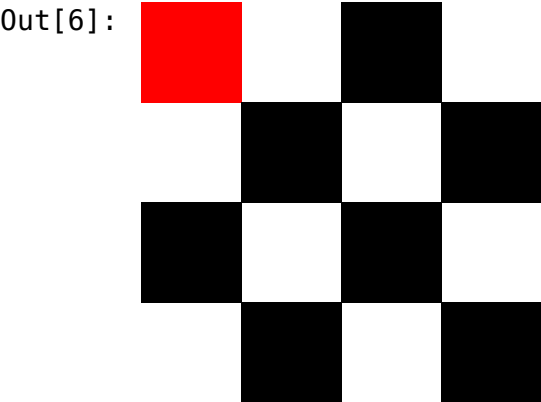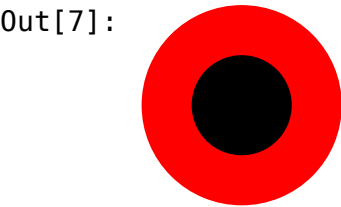
```xml
<?xml version="1.0" ?>
<svg baseProfile="full" height="200" version="1.1" width="200" xmlns="http://www.w3.org/2000/svg"
 xmlns:ev="http://www.w3.org/2001/xml-events" xmlns:xlink="http://www.w3.org/1999/xlink">
        <defs/>
        <rect fill="red" height="50" width="50" x="0" y="0"/>
        <rect height="50" width="50" x="100" y="0"/>
        <rect height="50" width="50" x="50" y="50"/>
        <rect height="50" width="50" x="150" y="50"/>
        <rect height="50" width="50" x="0" y="100"/>
        <rect height="50" width="50" x="100" y="100"/>
        <rect height="50" width="50" x="50" y="150"/>
        <rect height="50" width="50" x="150" y="150"/>
</svg>
```

Out[6]:


```
In [7]: show('''
            size height=100, width=100
            circle center=(50, 50), radius=50, fill="red"
            circle center=(50, 50), radius=25, fill="black"
        ''')
```

```xml
<?xml version="1.0" ?>
<svg baseProfile="full" height="100" version="1.1" width="100" xmlns="http://www.w3.org/2000/svg"
 xmlns:ev="http://www.w3.org/2001/xml-events" xmlns:xlink="http://www.w3.org/1999/xlink">
        <defs/>
        <circle cx="50" cy="50" fill="red" r="50"/>
        <circle cx="50" cy="50" fill="black" r="25"/>
</svg>
```

Out[7]:

In [8]:
```
show('''
    rectangle upper_left=(0,0), size=(200, 200), fill="yellow"
    polygon points=[(0,0), (50, 50), (0, 100)], style="stroke: black; stroke-width: 3; fill: none;"
    polygon points=[(0,0), (50, 50), (100, 0)], style="stroke: black; stroke-width: 3; fill: none;"
    polygon points=[(0, 100), (50, 150), (0, 200)], style="stroke: black; stroke-width: 3; fill: none;"
    polygon points=[(0, 200), (50, 150), (100, 200)], style="stroke: black; stroke-width: 3; fill: none;"
    polygon points=[(100, 200), (150, 150), (200, 200)], style="stroke: black; stroke-width: 3; fill: none;"
    polygon points=[(200, 200), (150, 150), (200, 100)], style="stroke: black; stroke-width: 3; fill: none;"
    polygon points=[(200, 100), (150, 50), (200, 0)], style="stroke: black; stroke-width: 3; fill: none;"

    polygon points=[(200, 0), (150, 50), (100, 0)], style="stroke: black; stroke-width: 3; fill: none;"
''')
```

```xml
<?xml version="1.0" ?>
<svg baseProfile="full" height="200" version="1.1" width="200" xmlns="http://www.w3.org/2000/svg"
 xmlns:ev="http://www.w3.org/2001/xml-events" xmlns:xlink="http://www.w3.org/1999/xlink">
        <defs/>
        <rect fill="yellow" height="200" width="200" x="0" y="0"/>
        <polygon points="0,0 50,50 0,100" style="stroke: black; stroke-width: 3; fill: none;"/>
        <polygon points="0,0 50,50 100,0" style="stroke: black; stroke-width: 3; fill: none;"/>
        <polygon points="0,100 50,150 0,200" style="stroke: black; stroke-width: 3; fill: none;"/>
        <polygon points="0,200 50,150 100,200" style="stroke: black; stroke-width: 3; fill: none;"/>
        <polygon points="100,200 150,150 200,200" style="stroke: black; stroke-width: 3; fill: none;"/>
        <polygon points="200,200 150,150 200,100" style="stroke: black; stroke-width: 3; fill: none;"/>
        <polygon points="200,100 150,50 200,0" style="stroke: black; stroke-width: 3; fill: none;"/>
        <polygon points="200,0 150,50 100,0" style="stroke: black; stroke-width: 3; fill: none;"/>
</svg>
```

Out[8]: