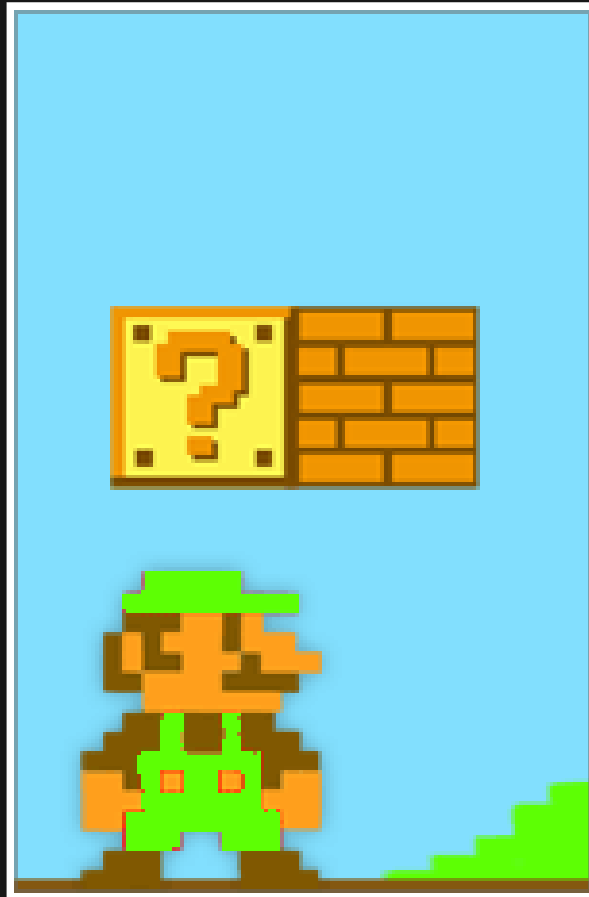


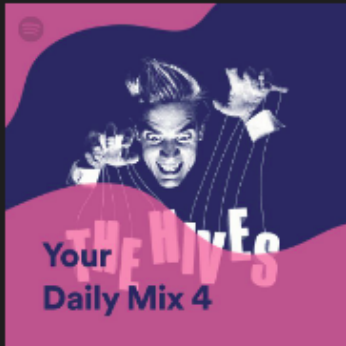
Luigi





Daily Mix 3

The Fall, IDLES, Gang Of Four and more



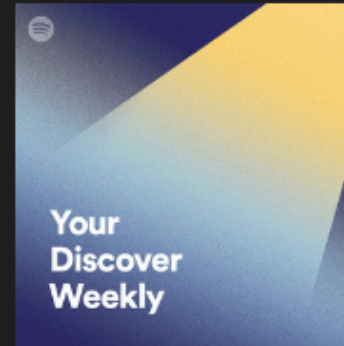
Daily Mix 4

The Hives, Joy Division, The Kinks and more



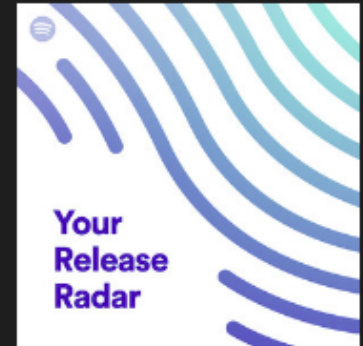
Daily Mix 5

Gerry Mulligan, Paul Desmond, Dave Brubeck and more



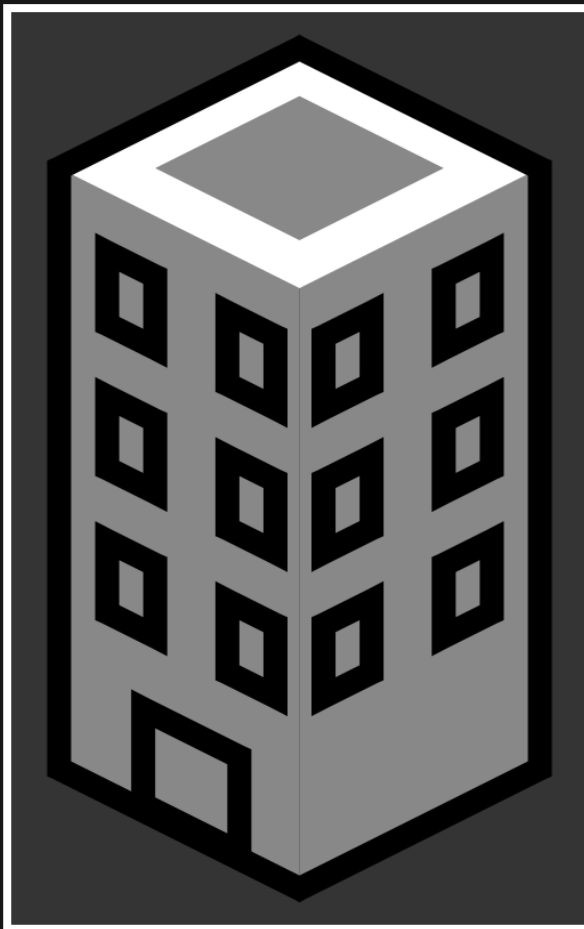
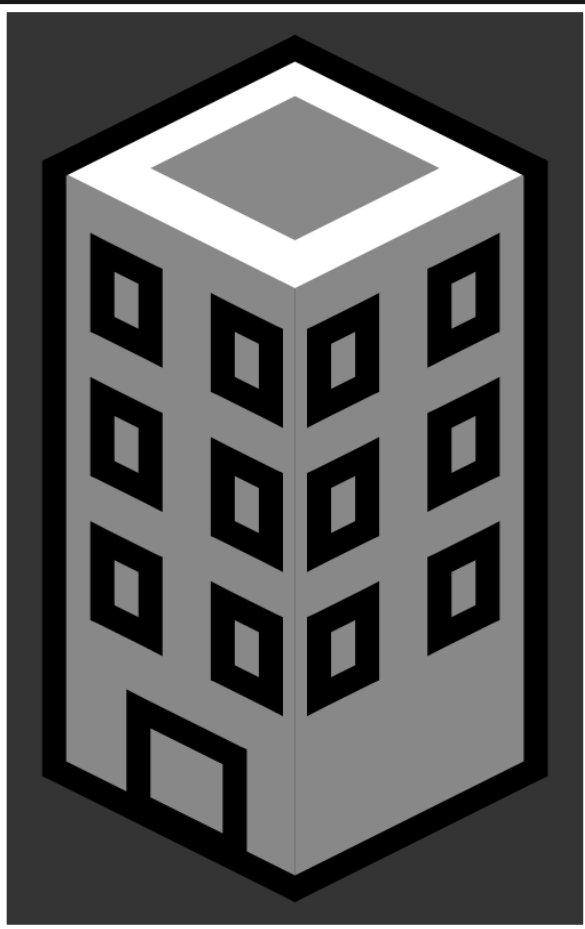
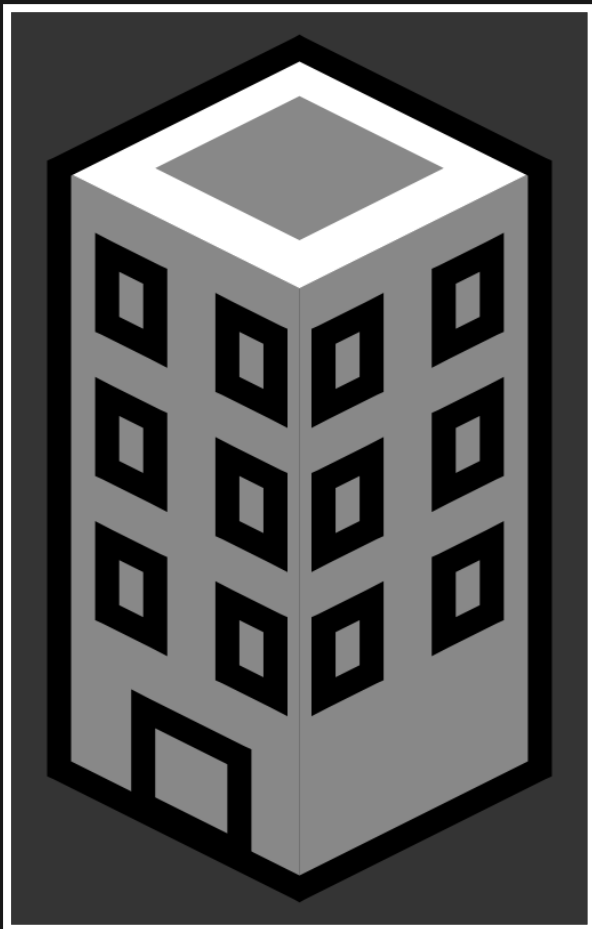
Discover Weekly

Your weekly mixtape of fresh music. Enjoy new discoveries and deep cut...
PLAYLIST • BY SPOTIFY



Release Radar

Never miss a new release! Catch all the latest music from artists you follow,...
PLAYLIST • BY SPOTIFY










```
class MyTask(luigi.Task):  
    myvar1 = luigi.Parameter()  
    myvar2 = luigi.Parameter()  
    ...
```



```
...  
def requires(self):  
    return [  
        ReqTask1(param1='a', param2='b'),  
        RelTask2()  
    ]  
...
```

```
...  
def run(self):  
doSomething()  
...
```

```
...  
def output(self):  
    return luigi.LocalTarget(path)  
...
```

```
import luigi

class MyTask(luigi.Task):
    param = luigi.Parameter(default=42)

    def requires(self):
        return SomeOtherTask(self.param)

    def run(self):
        f = self.output().open('w')
        print >>f, "hello, world"
        f.close()

    def output(self):
        return luigi.LocalTarget('/tmp/foo/bar-%s.txt' % self.param)

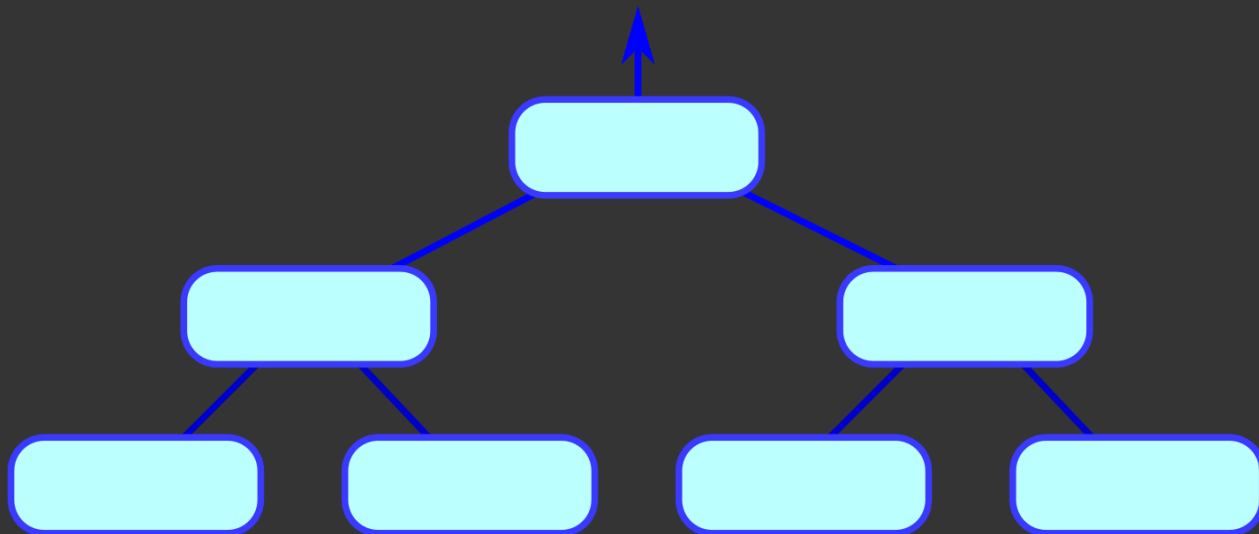
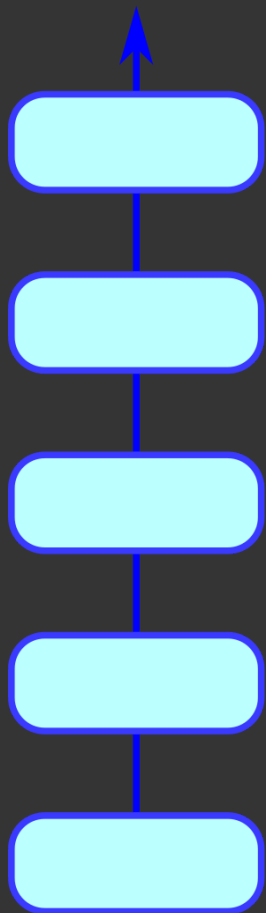
if __name__ == '__main__':
    luigi.run()
```

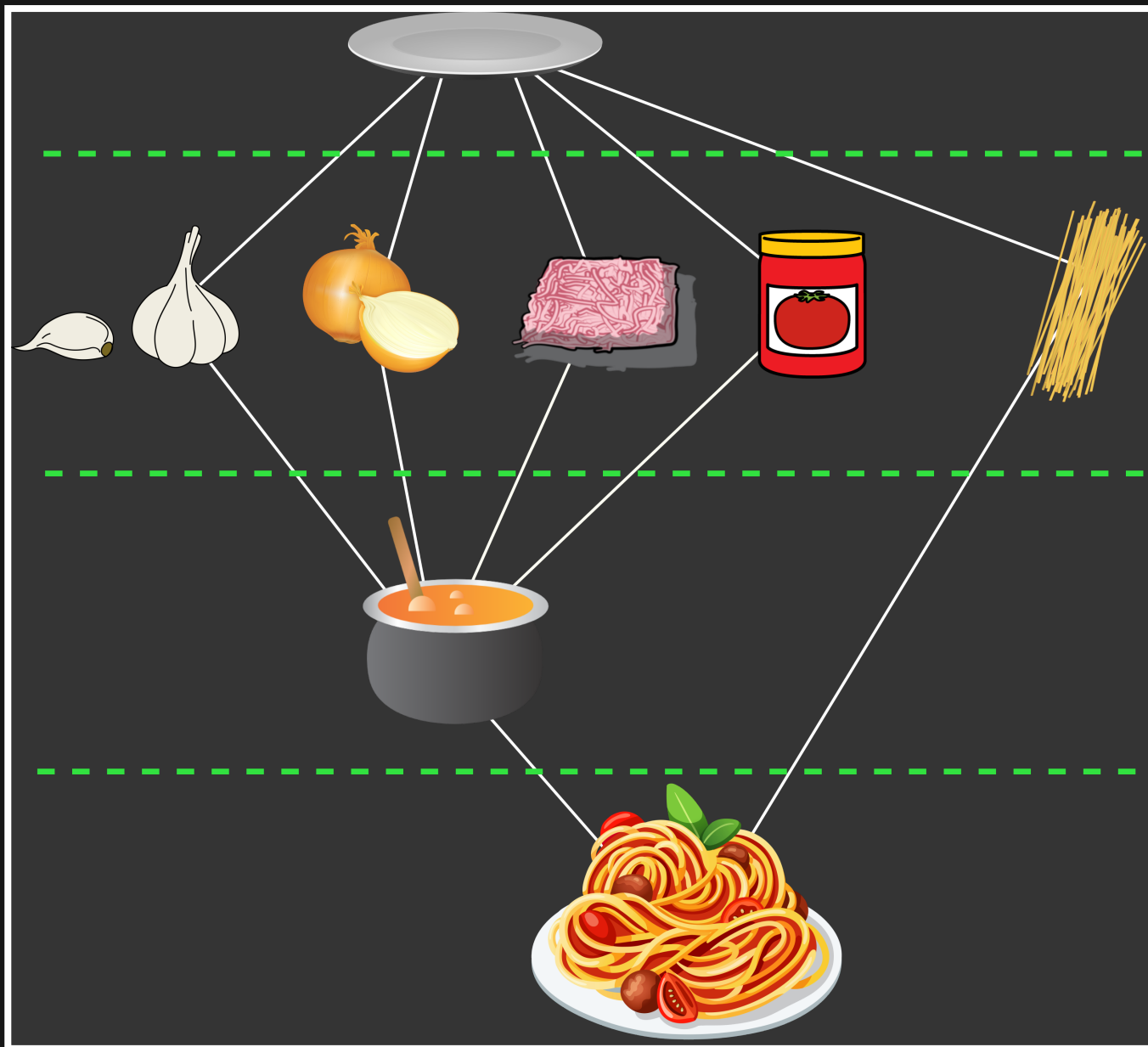
The business logic of the task

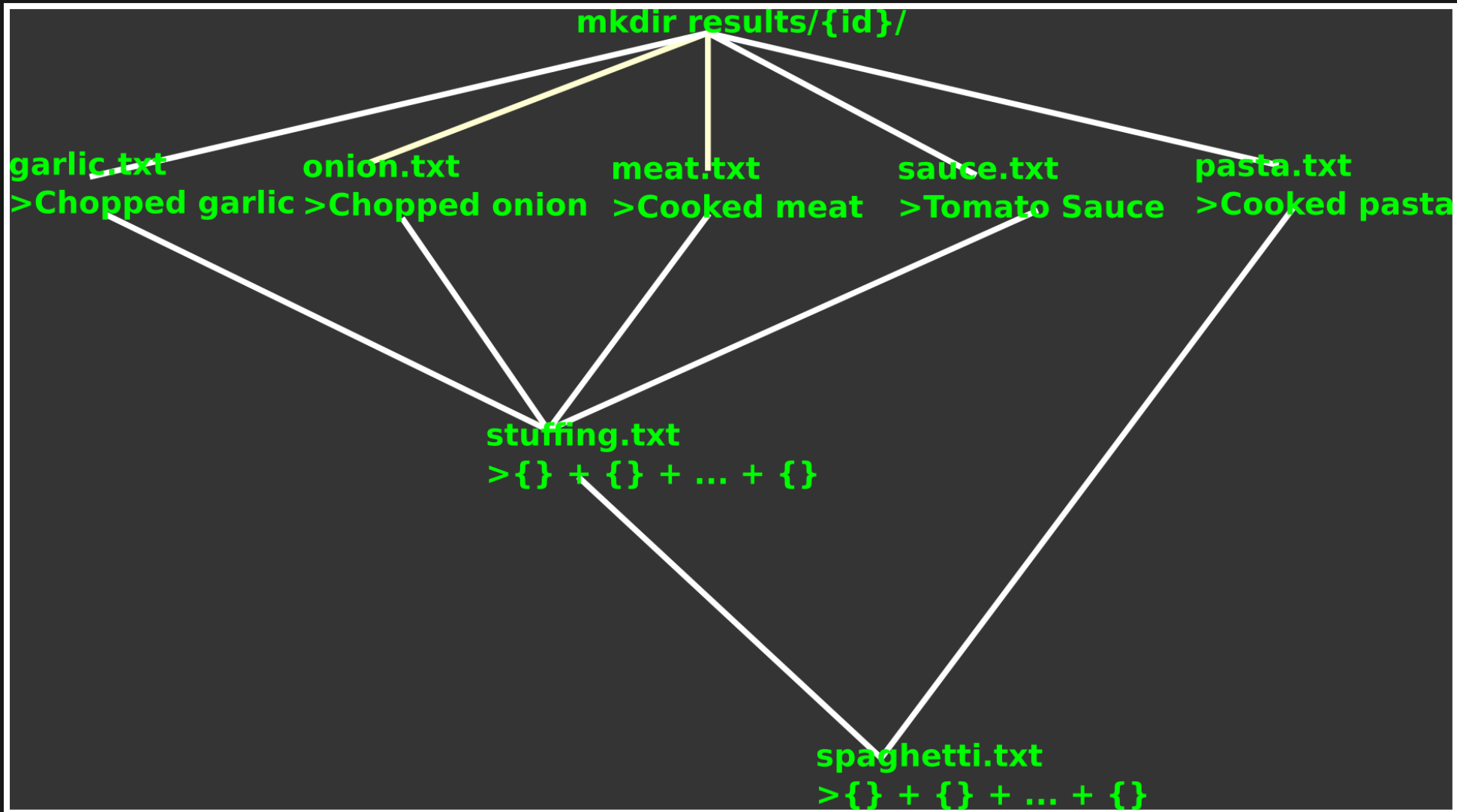
Where it writes output

What other tasks it depends on

Parameters for this task







PREPARE PLATE

```
class PreparePlate(luigi.Task):  
    path = luigi.Parameter()  
    def run(self):  
        time.sleep(5)  
        os.makedirs(self.path)  
  
    def output(self):  
        return luigi.LocalTarget(self.path)
```


COOK PASTA

```
class CookPasta(luigi.Task):
    path = luigi.Parameter()
    def requires(self):
        return [PreparePlate(path=os.path.dirname(self.path))]

    def run(self):
        time.sleep(5)
        with open(self.path, 'w') as pasta:
            pasta.write('Cooked Pasta')

    def output(self):
        return luigi.LocalTarget(self.path)
```

CHOP

```
class Chop(luigi.Task):
    path = luigi.Parameter()
    ingredient = luigi.Parameter()

    def run(self):
        time.sleep(5)
        with open(self.path, 'w') as ingredient:
            ingredient.write(f'Chopped {self.ingredient}')

    def output(self):
        return luigi.LocalTarget(self.path)

    def requires(self):
        return [PreparePlate(path=os.path.dirname(self.path))]
```

MAKE STUFFING

```
class MakeStuffing(luigi.Task):
    path = luigi.Parameter()
    id = luigi.Parameter(default='test')

    def requires(self):
        return [Chop(path=f'results/{self.id}/garlic.txt',
                    ingredient='garlic'),
                MakeTomatoSauce(
                    path=f'results/{self.id}/sauce.txt'
                ),
                Chop(path=f'results/{self.id}/onion.txt',
                    ingredient='onion'),
                CookMeat(path=f'results/{self.id}/meat.txt')
        ]
```

```
def run(self):  
    time.sleep(5)  
    with open(self.input()[0].path, 'r') as garlic_file:  
        garlic = garlic_file.read()  
    with open(self.input()[1].path, 'r') as sauce_file:  
        sauce = sauce_file.read()  
    with open(self.input()[2].path, 'r') as onion_file:  
        onion = onion_file.read()  
    with open(self.input()[3].path, 'r') as meat_file:  
        meat = meat_file.read()  
    with open(self.path, 'w') as stuffing:  
        stuffing.write(f'{garlic} + {sauce} + {onion}')
```

```
def output(self):  
    return luigi.LocalTarget(self.path)
```

MAKE SPAGHETTI

```
class MakeSpaghetti(luigi.Task):  
    id = luigi.Parameter(default='test')  
  
    def requires(self):  
        return [  
            CookPasta(path=f'results/{self.id}/pasta.txt'),  
            MakeStuffing(  
                path=f'results/{self.id}/stuffing.txt',  
                id=self.id  
            )  
        ]
```

```
def run(self):
    time.sleep(5)
    with open(self.input()[0].path, 'r') as pasta_file:
        pasta = pasta_file.read()
    with open(self.input()[1].path, 'r') as stuffing_file:
        stuffing = stuffing_file.read()
    with open(self.output().path, 'w') as spaghetti:
        spaghetti.write(f'{pasta} + {stuffing}')

def output(self):
    path = f'results/{self.id}/spaghetti.txt'
    return luigi.LocalTarget(path)
```

RUN IT!

```
python3 luigi-spaghetti.py MakeSpaghetti --id yummy
```


==== Luigi Execution Summary ====

Scheduled 8 tasks of which:

* 8 ran successfully:

- 2 Chop(path=results/yummy/garlic.txt, ingredient=garlic)
and Chop(path=results/yummy/onion.txt, ingredient=onion)
- 1 CookMeat(path=results/yummy/meat.txt)
- 1 CookPasta(path=results/yummy/pasta.txt)
- 1 MakeSpaghetti(id=yummy)
- 1 MakeStuffing(path=results/yummy/stuffing.txt, id=yummy)

...

This progress looks :) because there
were no failed tasks or missing dependencies

==== Luigi Execution Summary ====

File: garlic.txt

|Chopped garlic

File: meat.txt

|Cooked Meat

File: onion.txt

|Chopped onion

File: pasta.txt

|Cooked Pasta

File: sauce.txt

|Tomato Sauce

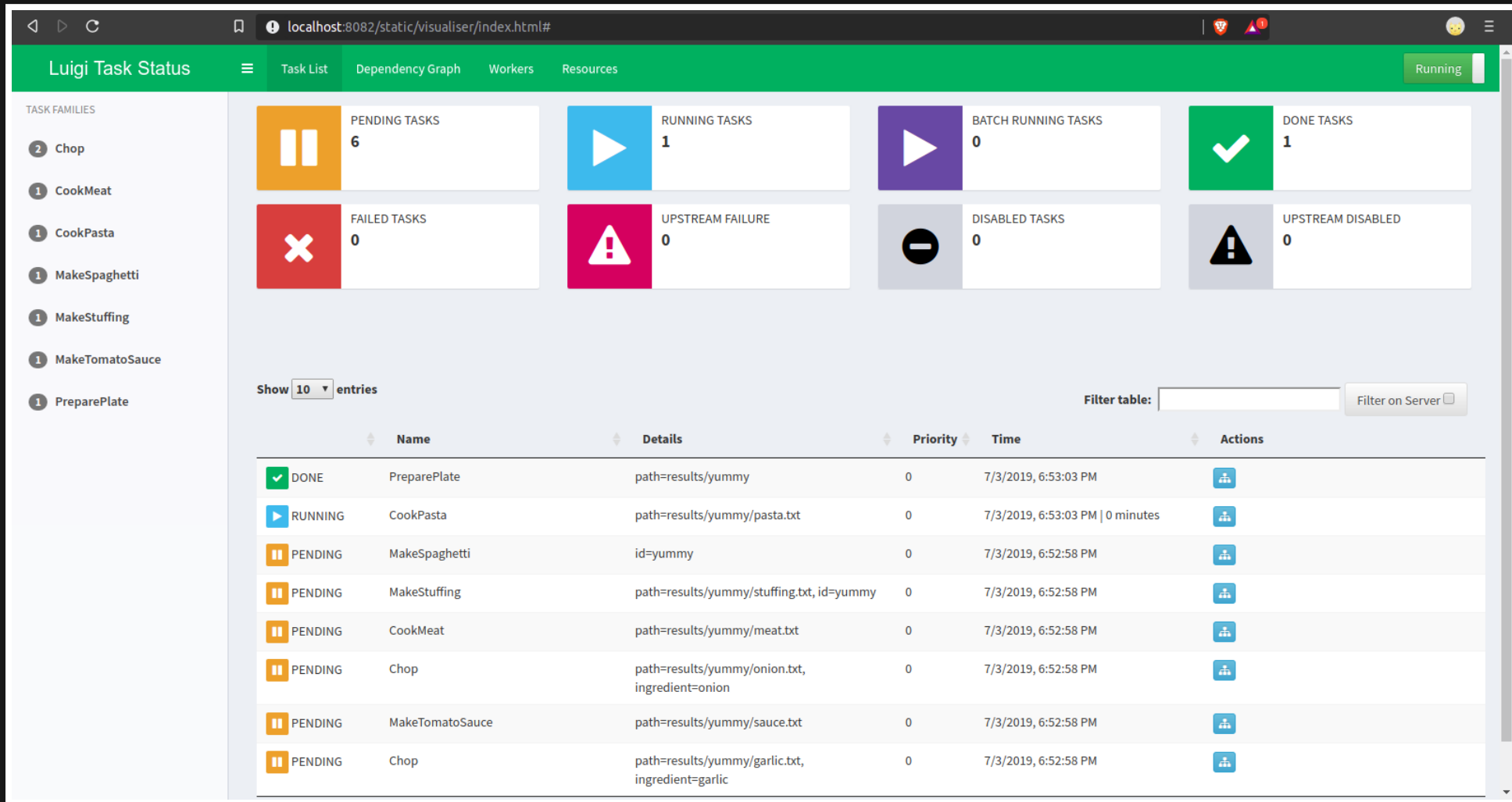
File: spaghetti.txt

|Cooked Pasta + Chopped garlic + Tomato Sauce + Chopped onion

File: stuffing.txt

|Chopped garlic + Tomato Sauce + Chopped onion

Dashboard



Thanks!



github.com/Dysproz/luigi-spaghetti