

Holide

Holide

- **1.** Create Holide-instance
- **2.** Federal state functions
- **3.** Bank-holidays
- **4.** School-holidays
- **5.** No school

1. Create Holide-instance

- **1.1.** From web
- **1.2.** From json
 - **1.2.1.** Create json

1.1. Holide from web

Loads data from the internet.

Python 3.6.7

```
>>> from holide import Holide
```

```
>>> h = Holide.from_web()
```

```
>>>
```

1.2. Holide from json

Loads data from a json-file

Python 3.6.7

```
>>> from holide import Holide
```

```
>>> h = Holide.from_path('/home/user/cache.json')
```

```
>>>
```

1.2.1. Create json

Creates a json-file that can be loaded by Holide.

Python 3.6.7

```
>>> from holide import Holide
```

```
>>> h = Holide.from_web()
```

```
>>> h.save_data('/tmp/holide.json')
```

2. Federal state functions

- **2.1.** Get all federal states
- **2.2.** Get federal state of zipcode
 - **2.2.1.** Zipcode belongs to only one federal-state
- **2.3** Federal state code functions
 - Get federal state code (ISO 3166-2) by name
 - Get federal state name by code (ISO 3166-2)

2.1. Get federal states

Python 3.6.7

```
>>> from holide import Holide
```

```
>>> h = Holide.from_web()
```

```
>>> h.get_federal_state_names()
```

```
['Baden-Württemberg', 'Bayern', 'Berlin', 'Brandenburg',  
'Bremen', 'Hamburg', 'Hessen', 'Mecklenburg-Vorpommern',  
'Niedersachsen', 'Nordrhein-Westfalen', 'Rheinland-Pfalz',  
'Saarland', 'Sachsen', 'Sachsen-Anhalt', 'Schleswig-Holstein',  
'Thüringen']
```


2.2. Get federal state of zipcode

- **2.2.1.** Federal state needs to belong to only one federal state

2.2. Get federal state of zipcode

Assertion: Zipcode belongs to only one federal state

```
>>> (h.belongs_to_only_one_federal_state(76135) == True)
```

```
True
```

```
>>>
```

```
>>> h.get_federal_state(76135)
```

```
'Baden-Württemberg'
```

```
>>>
```

2.2.1. Zipcode belongs to only one federal state

- Belongs to one federal-state:

```
>>> h.belongs_to_only_one_federal_state(76135)
```

```
True
```

```
>>>
```

- Belongs to multiple federal-states:

```
>>> h.belongs_to_only_one_federal_state(21039)
```

```
False
```

```
>>>
```

2.3 Federal state code functions

- Get federal state code (ISO 3166-2) by name
- Get federal state name by code (ISO 3166-2)

Python 3.6.7

```
>>> from holide import Holide
```

```
>>> h = Holide.from_web()
```

```
>>> h.get_federal_state_code('Baden-Württemberg')
```

```
'BW'
```

```
>>> h.get_federal_state_name('BW')
```

```
'Baden-Württemberg'
```

```
>>>
```

3. Bank-holidays

- **3.1.** In Germany
- **3.2.** In federal states (specified by name or ISO 3166-2)
- **3.3.** At zipcode

3.1. Bank-holidays Germany

Python 3.6.7

```
>>> from holide import Holide
```

```
>>> h = Holide.from_web()
```

```
>>> from datetime import date
```

```
>>> h.is_bank_holiday(date(2018, 1, 1))
```

True

```
>>> h.is_bank_holiday(date(2018, 1, 6))
```

False

```
>>>
```

3.2. Bank-holidays in federal states

Python 3.6.7

```
>>> from holide import Holide
```

```
>>> h = Holide.from_web()
```

```
>>> from datetime import date
```

```
>>> h.is_bank_holiday_in_federal_state(date(2018, 1, 6), 'Bayern')
```

True

```
>>> h.is_bank_holiday_in_federal_state(date(2018, 1, 6), 'BY')
```

True

```
>>> h.is_bank_holiday_in_federal_state(date(2018, 1, 7), 'Bayern')
```

False

```
>>>
```

3.3. Bank-holidays at zipcode

Assertion:

Zipcode belongs to only one federal state

Python 3.6.7

```
>>> from holide import Holide
```

```
>>> h = Holide.from_web()
```

```
>>> from datetime import date
```

```
>>> h.is_bank_holiday_at_zipcode(date(2018, 1, 6), 76135)
```

True

```
>>> h.is_bank_holiday_at_zipcode(date(2018, 1, 7), 76135)
```

False

```
>>>
```


4. School-holidays

- **4.1.** In federal states (specified by name or ISO 3166-2)
- **4.2.** At zipcode

4.1. School-holidays in federal states

Python 3.6.7

```
>>> from holide import Holide
```

```
>>> h = Holide.from_web()
```

```
>>> from datetime import date
```

```
>>> h.is_school_holiday_in_federal_state(date(2018, 12, 22), 'Bayern')
```

True

```
>>> h.is_school_holiday_in_federal_state(date(2018, 12, 22), 'BY')
```

True

```
>>> h.is_school_holiday_in_federal_state(date(2018, 12, 20), 'Bayern')
```

False

```
>>>
```

4.2. School-holidays at zipcode

Assertion:

Zipcode belongs to only one federal state

Python 3.6.7

```
>>> from holide import Holide
```

```
>>> h = Holide.from_web()
```

```
>>> from datetime import date
```

```
>>> h.is_school_holiday_at_zipcode(date(2018, 12, 22), 80331)
```

True

```
>>> h.is_school_holiday_at_zipcode(date(2018, 12, 10), 80331)
```

False

```
>>>
```

5. No school

Combines bank-holiday and school-holiday functions and checks, for sundays.

- **5.1.** In federal state (specified by name or ISO 3166-2)
- **5.2.** At zipcode

5.1. No school in federal states

Python 3.6.7

```
>>> from holide import Holide
```

```
>>> h = Holide.from_web()
```

```
>>> from datetime import date
```

```
>>> h.no_school_in_federal_state(date(2019, 5, 5), 'Bayern')
```

True

```
>>> h.no_school_in_federal_state(date(2019, 5, 5), 'BY')
```

True

```
>>> h.no_school_in_federal_state(date(2019, 5, 6), 'Bayern')
```

False

```
>>>
```

5.2. No school at zipcode

Assertion:

Zipcode belongs to only one federal state

Python 3.6.7

```
>>> from holide import Holide
```

```
>>> h = Holide.from_web()
```

```
>>> from datetime import date
```

```
>>> h.no_school_at_zipcode(date(2018, 12, 22), 80331)
```

True

```
>>> h.no_school_at_zipcode(date(2018, 12, 10), 80331)
```

False

```
>>>
```