

Esoterische Programmiersprachen

Sabine Neubauer, Entwicklertag 2015



Whitespace





```

@Override
protected void init(VaadinRequest request) {
    layout = new VerticalLayout();
    layout.setMargin(true);
    layout.setSpacing(true);
    setContent(layout);

    final Label label = new Label("Hello World!");
    layout.addComponent(label);

    final TextField textField = new TextField("Bitte eingeben");
    layout.addComponent(textField);

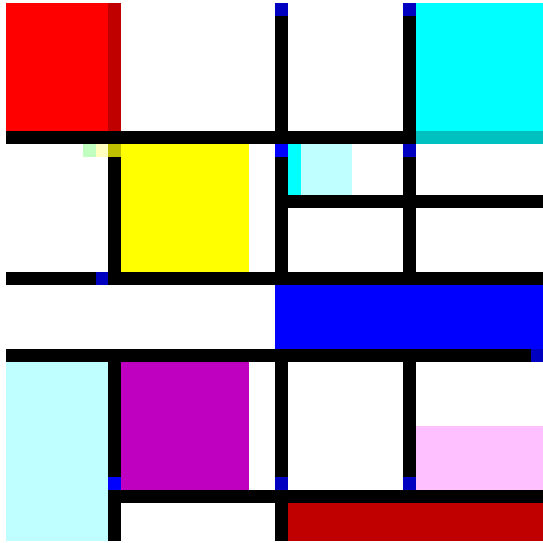
    final Button button = new Button("Benachrichtigung");
    layout.addComponent(button);
    button.addClickListener(new ClickListener() {
        public void buttonClick(...) {
            // ...
        }
    });
}

class Aufgabe3 extends UI {
    // ...
}

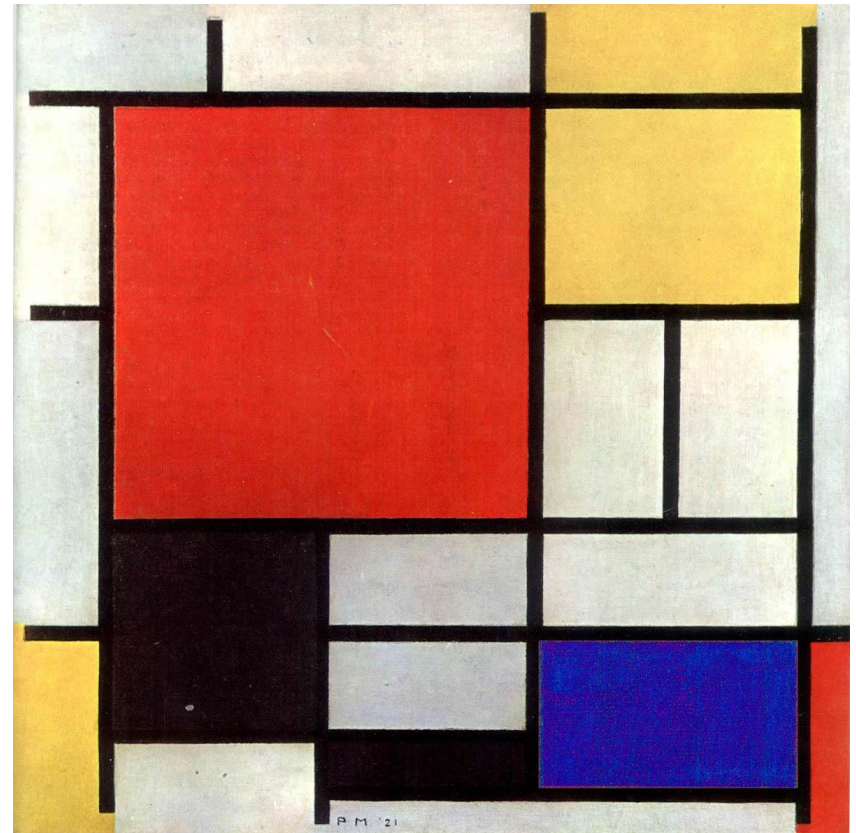
```



Piet



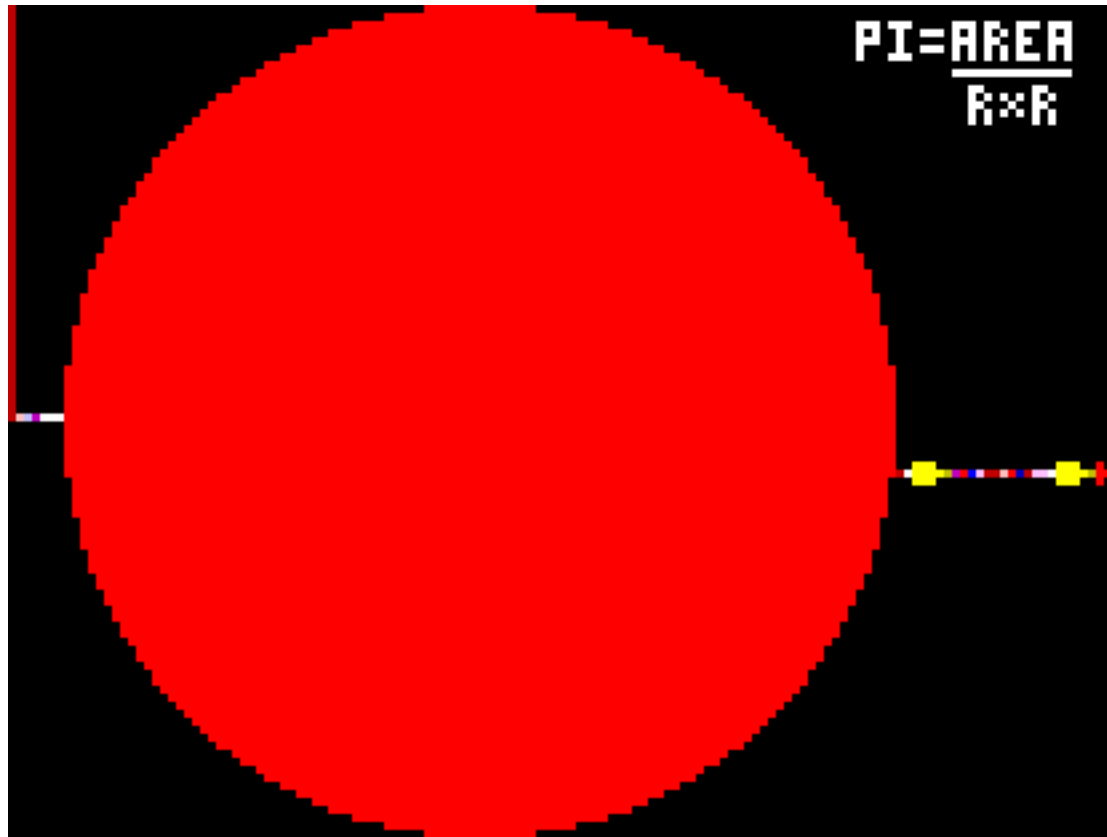
**Piet program von Thomas Schoch
(Originalgröße: 252 x 252 px)**



**Composition in red, yellow, blue
and black. 1926**



**Hello, world! – von Thomas Schoch
(Originalgröße: 143 x 143 px)**



Approximation von π – von Richard Mitton



Taxi

4K72

7V53



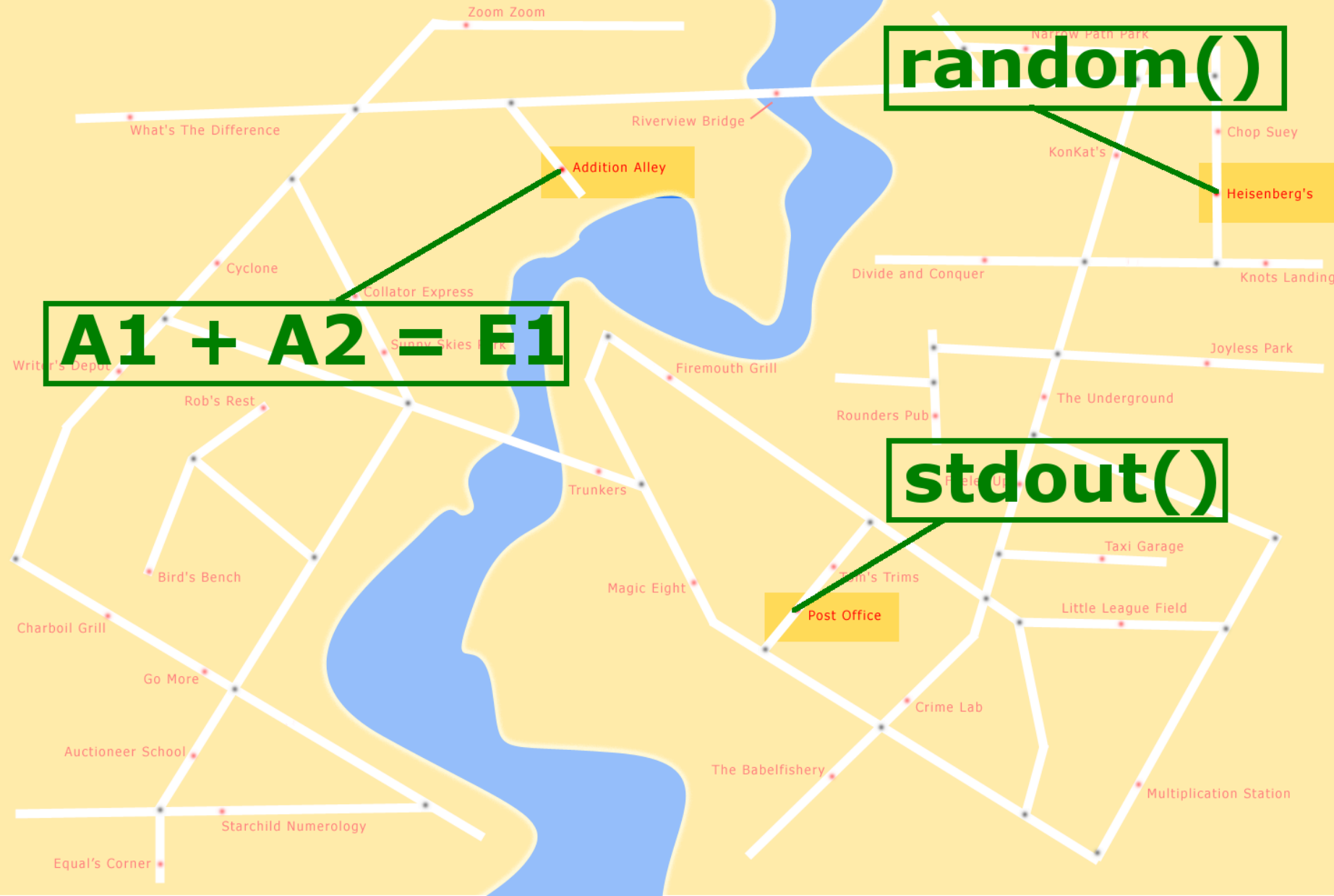
Townsburg Taxi Co., Inc.



random()

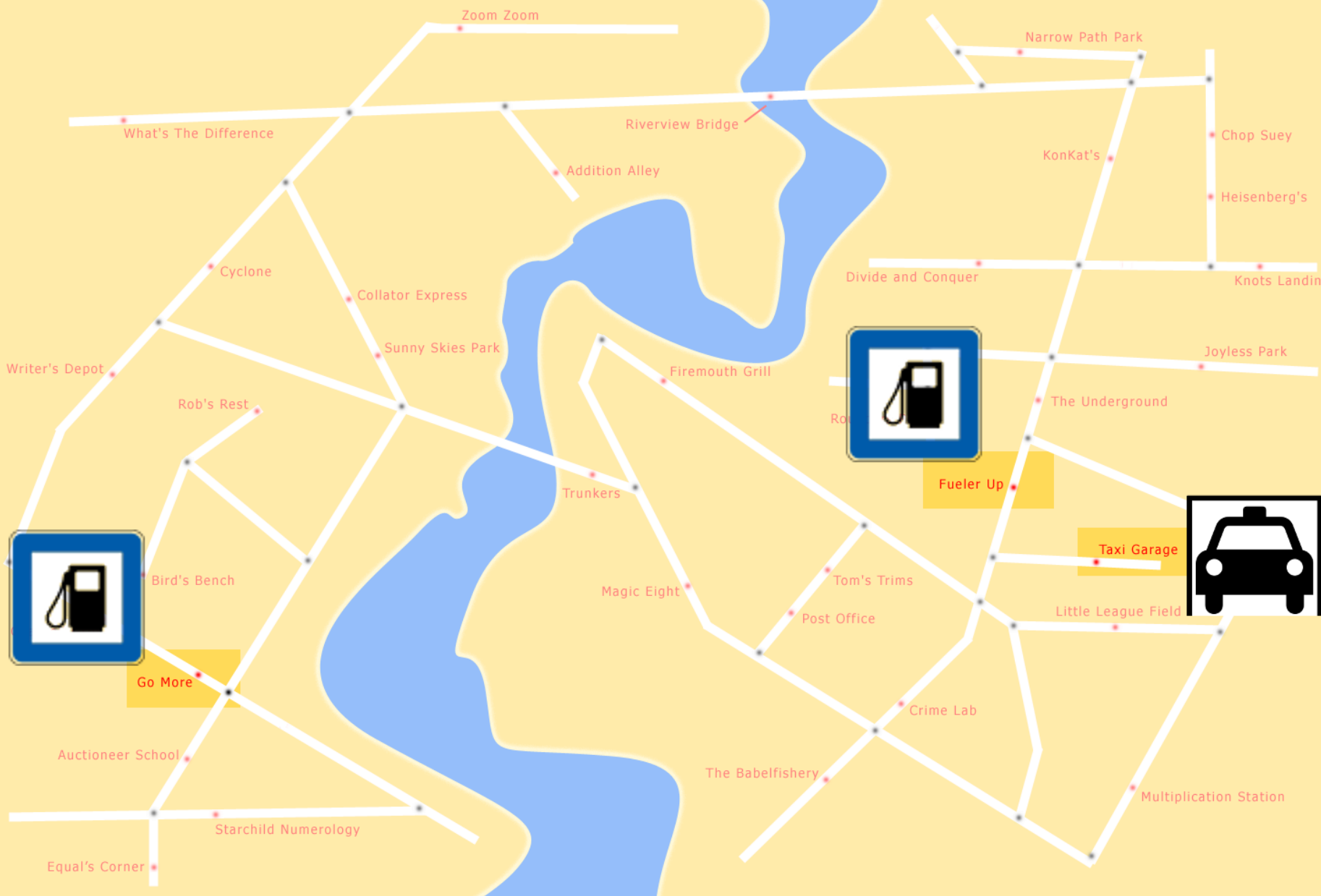
A1 + A2 = E1

stdout()



Townsburg Taxi Co., Inc.





Townsburg Taxi Co., Inc.





**"Hello, World!" is waiting at the
Writer's Depot.**

**Go to Writer's Depot: west 1st left,
2nd right, 1st left, 2nd left.**

**Pickup a passenger going to the Post
Office.**

**Go to the Post Office: north 1st
right, 2nd right, 1st left.**

**Go to the Taxi Garage: north 1st
right, 1st left, 1st right.**

Townsburg Taxi Co., Inc.





Chef



Hello World Cake with Chocolate sauce.

Description of the recipe.

Ingredients.

33 g chocolate chips **Variable**

100 g butter

54 ml double cream **Initialer Wert**

2 pinches baking powder

114 g sugar

111 ml beaten eggs

119 g flour

32 g cocoa powder

0 g cake mixture

Method.

Put chocolate chips into the mixing bowl.

Put butter into the mixing bowl.

...

Combine double cream into the mixing bowl.

Stir the mixing bowl for 4 minutes.

Liquify the contents of the mixing bowl.

Pour contents of the mixing bowl
into the baking dish.

bake the cake mixture.

Wait until baked.

Serve with chocolate sauce.

Operationen

Subroutine



thank
YOU

SO GOOD

WYOBRA

TO



FUCK IT.

FUCK ANYTHING
THAT DOESN'T
MAKE YOU
HAPPY.

YES

THIS
IS
IT

CREATIVITY
MESS



IMPORTANT
ALBERT EINSTEIN

Quellen - Inhalt

- **Allgemein:**
 - http://de.wikipedia.org/wiki/Esoterische_Programmiersprache
 - Vortrag von Andi Scharfstein auf den xpdays 2013: <http://www.xpdays.de/2013/sessions/089-esoterische-programmiersprachen.html>
- **Whitespace:**
 - <http://compsoc.dur.ac.uk/whitespace/index.php>
 - http://de.wikipedia.org/wiki/Whitespace_%28Programmiersprache%29
- **Piet:**
 - <http://www.dangermouse.net/esoteric/piet.html>
 - http://de.wikipedia.org/wiki/Piet_%28Programmiersprache%29
 - <http://www.retas.de/thomas/computer/programs/useless/piet/explain.html>

Quellen - Inhalt

- **Taxi:**
 - <https://esolangs.org/wiki/Taxi>
 - <http://web.archive.org/web/20130116204555/bigzaphod.org/taxi/>
- **Chef:**
 - <http://www.dangermouse.net/esoteric/chef.html>
 - http://de.wikipedia.org/wiki/Chef_%28Programmiersprache%29
 - <http://www.mike-worth.com/2013/03/31/baking-a-hello-world-cake/>



Quellen - Bilder

- **Folie 2:**
 - <http://pixabay.com/de/design-tanzen-rauch-farbenfroh-653712/>
- **Folie 4:** eigenes Foto von Sabine Neubauer
- **Folie 5:**
 - <http://pixabay.com/de/pflanze-isoliert-menschliche-164500/>
- **Folie 6:** eigenes Foto von Sabine Neubauer
- **Folie 7:**
 - http://commons.wikimedia.org/wiki/File:Tableau_I,_by_Piet_Mondriaan.jpg
- **Folie 8 (Code in Piet):**
 - „Piet Program“ von Thomas Schoch - own work at <http://www.retas.de/thomas/computer/programs/useless/piet/Piet/index.html>. Lizenziert unter CC BY-SA 3.0 über Wikimedia Commons - http://commons.wikimedia.org/wiki/File:Piet_Program.gif#/media/File:Piet_Program.gif
- **Folie 8 (Gemälde von Piet Mondrian):**
 - http://de.wikipedia.org/wiki/Piet_Mondrian#/media/File:Piet_Mondriaan,_1926_-_Composition_en_rouge,_jaune,_bleu_et_noir.jpg
- **Folie 9:**
 - „Piet Program Hello World(1)“ von Thomas Schoch - own work at <http://www.retas.de/thomas/computer/programs/useless/piet/explain.html> (with detailed explanation). Lizenziert unter CC BY-SA 3.0 über Wikimedia Commons - [http://commons.wikimedia.org/wiki/File:Piet_Program_Hello_World\(1\).gif#/media/File:Piet_Program_Hello_World\(1\).gif](http://commons.wikimedia.org/wiki/File:Piet_Program_Hello_World(1).gif#/media/File:Piet_Program_Hello_World(1).gif)
- **Folie 10:**
 - http://www.dangermouse.net/esoteric/piet/piet_pi_big.png

Quellen - Bilder

- **Folie 11:**
 - <http://pixabay.com/de/taxi-taxi-verkehr-fahrerhaus-381233/>
- **Folie 12:**
 - <http://web.archive.org/web/20120717010656/http://www.bigzaphod.org/taxi/map-big.png>
- **Folie 13-15:**
 - eigene Bilder auf Basis von <http://web.archive.org/web/20120717010656/http://www.bigzaphod.org/taxi/map-big.png>
- **Folie 17:**
 - <http://pixabay.com/de/k%C3%BCchenwaage-wiegen-backen-kochen-532651/>
- **Folie 18:**
 - <http://pixabay.com/de/sch%C3%BCssel-backen-teig-r%C3%BChren-blau-16105/>
- **Folie 19:**
 - <http://pixabay.com/de/teig-kuchen-lebensmittel-kochen-19633/>
- **Folie 20:**
 - <http://pixabay.com/de/unternehmen-b%C3%BCro-sch%C3%BCler-tastatur-762538/>
- **Folie 21-24:**
 - <http://pixabay.com/de/island-geysir-hei%C3%9Fen-quellen-680620/>

