

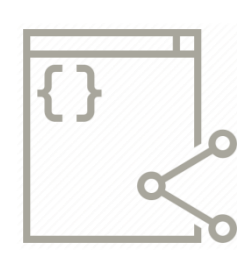







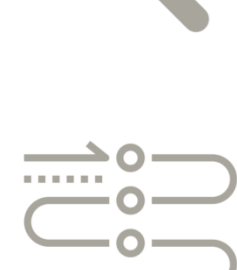




Figure 1: Screenshots of use cases of TheFragebogen.

>> **TheFragebogen** <<
... a software framework to implement questionnaires.

Why TheFragebogen?

TheFragebogen supports in conducting experiments. It reduces the effort on implementing necessary software and thus allows researchers focusing on their actual research questions.

Advantages of TheFragebogen

-  open source
-  graphical scales
-  cross platform
-  behavioral data
-  multi device
-  privacy friendly
-  multimedia
-  achievable
-  extendable
-  handwriting
-  dynamic questionnaires
-  usable standalone
-  ready for crowdsourcing

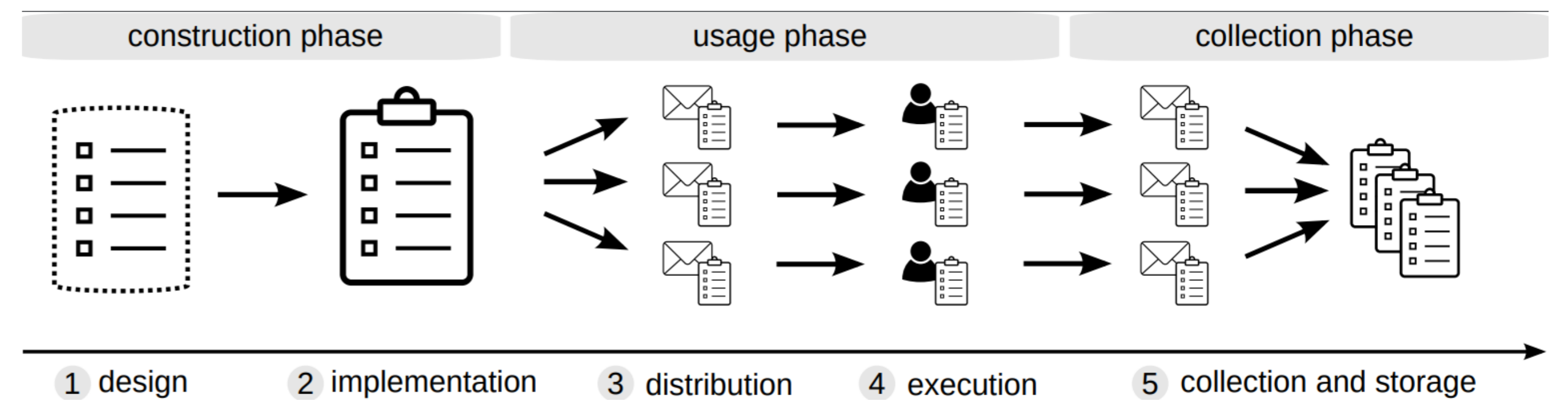


Figure 2: General lifecycle of a digital questionnaire.

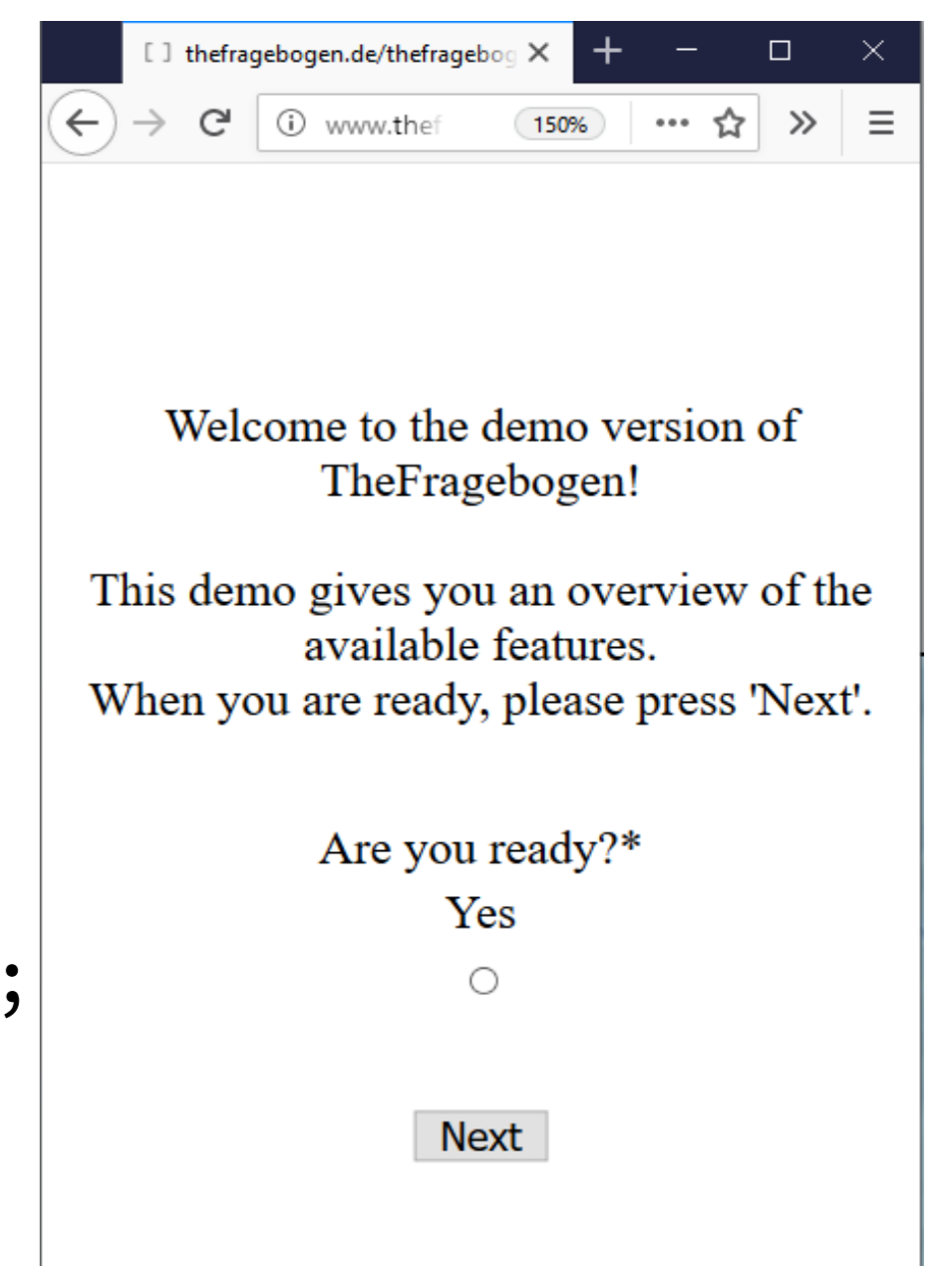
Lifecycle of an implementation

1. **design**: select questionnaire content
2. **implementation**: create questionnaire (if needed with individualization such as randomization)
3. **distribute**: distribute questionnaires to user (e.g., e-Mail, web, laboratory)
4. **execution**: participants conduct the experiment
5. **results**: collect data and store for evaluation.

Demo code

```
var screens = [];
var screen1= new ScreenUIElements(
  new UIElementHTML("CSS",
    "This is some text."),
  new QuestionnaireItemDefinedOne(
    "CSS",
    "Are you ready?", true, ["Yes"]))
);
screens.push(screen1);

var sc = new ScreenController(screens);
...
sc.start(document.body);
```



Lessons learned

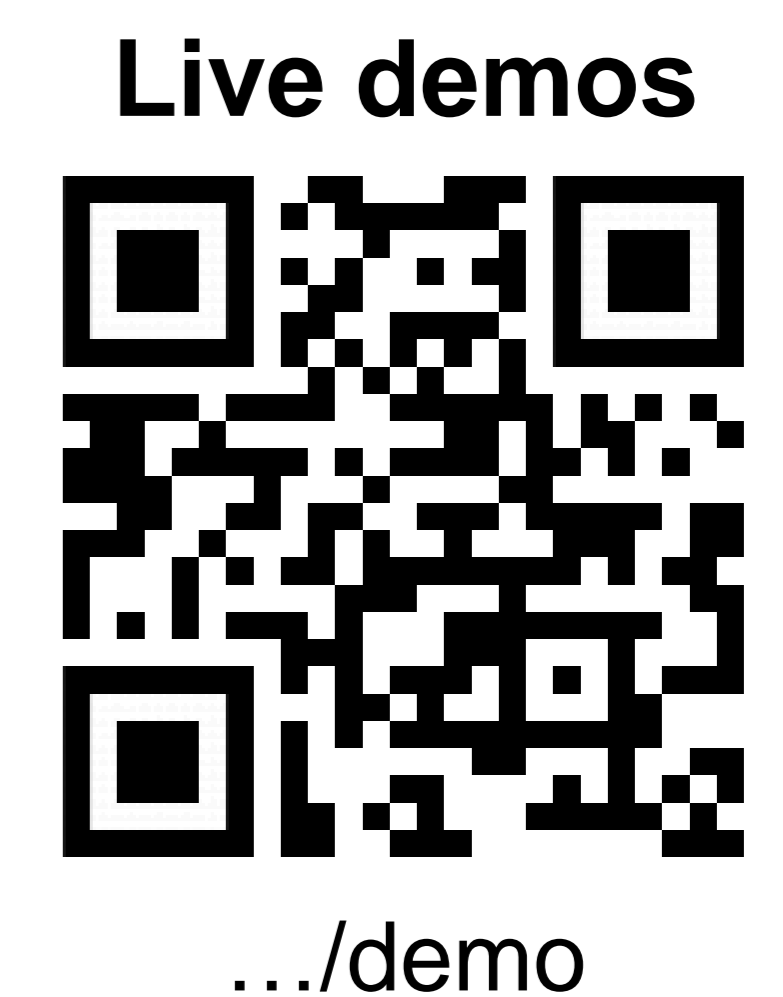
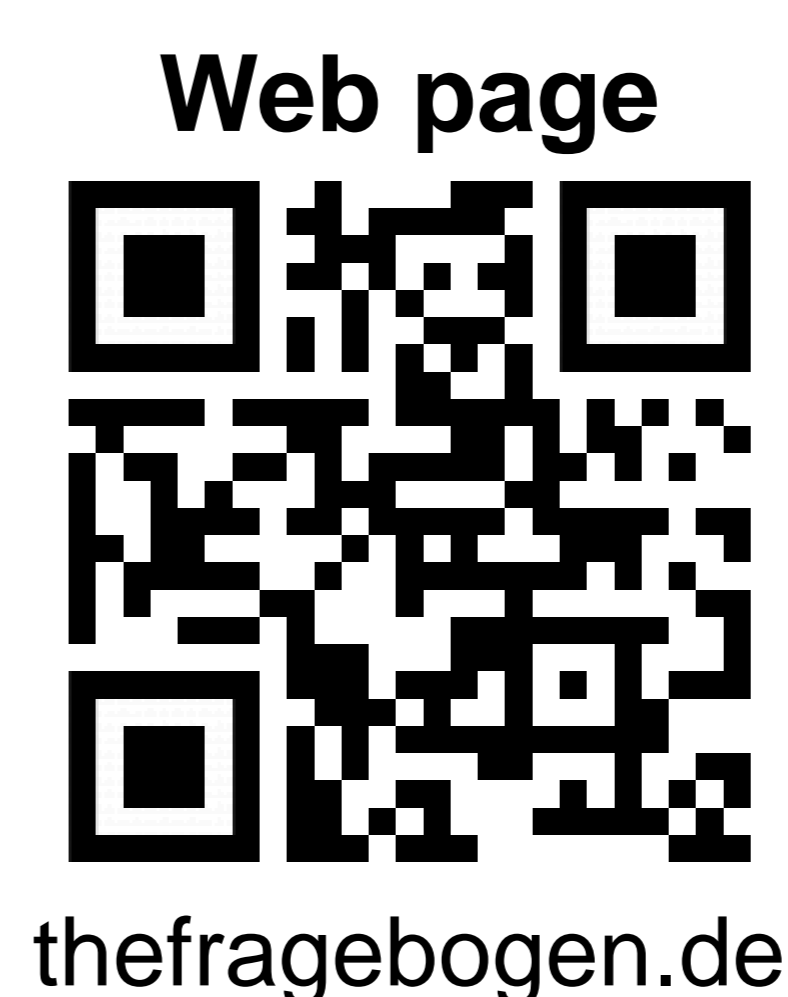
- limit necessary (network) infrastructure
- plan for technical failures
- use version control software
- reuse and enhance available implementations
- follow the "boy scout rule":
always leave a campground cleaner than you found it.

Future work

- > foster reproducibility by sharing implementations (Build public repository of implementations)
- > community building: share knowledge, technology, and expertise
- > invest resources to enhance/maintain TheFragebogen

Project information

Web page	www.thefragebogen.de
Software license	MIT License
Programming language	JS5+, CSS, HTML
Version control	GIT



Authors:

- Dennis Guse
- Henrique R. Orefice
- Gabriel Reimers
- Oliver Hohlfeld

Icons from the Noun Project:

- "open source" by I Putu Kharismayadi
- "responsive design" by Kiran Joseph
- "communication" by Shocho
- "cassette tape" by Universal Icons
- "enhance tool" by icon54
- "dynamic" by Nithinan Tatah
- "html" by Creative Stall
- "crowdsourcing" by Atif Arshad
- "behavior" by Nithinan Tatah
- "privacy" by johartcamp
- "archive" by Dilla Chee
- "signature" by Vadim Solomakhin