

# Modelling scripts using Snippets

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DEMO

# GTPlayground

# GTPlayground with Snippets

```
Playground  
Page  
"Extract all Bloc classes with more than 2  
attributes"  
data := BLMorph withAllSubclasses  
  select: [:each | each numberOfVariables > 2].  
  
"Show the difference between the number of  
attributes and the number of methods"  
b := RTDoubleBarBuilder new.  
b points: data.  
b bottomValue: #numberOfMethods.  
b topValue: #numberOfVariables.  
b build.  
b view canvas buildMorph
```

```
Extract all Bloc classes with more than 2 attributes Text  
  
data := BLMorph withAllSubclasses Pharo Code ▶  
select: [:each | each numberOfVariables > 2] 🔍  
  
Show the difference between the number of attrib Text  
utes and the number of methods  
  
b := RTDoubleBarBuilder new. Pharo Code ▶  
b points: data. 🔍  
b build.  
b view canvas buildMorph
```

GTPlayground

GTPlayground  
with  
Snippets

No explicit way  
to model a script

Offers an explicit model  
for expressing a script

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GTPlayground  
with  
Snippets

No explicit way  
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Offers an explicit model  
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Users must explicitly  
select code snippets

Users can execute  
snippets atomically

## GTPlayground

No explicit way  
to model a script

Users must explicitly  
select code snippets

Requires a special  
syntax to embed comments

## GTPlayground with Snippets

Offers an explicit model  
for expressing a script

Users can execute  
snippets atomically

Different snippet types  
for different code artefacts

CHALLENGES

# Started with Morphic and Rubric

```
"Extract all Bloc classes with more than 2 attributes"  
data := BLMorph withAllSubclasses  
  select: [:each | each numberOfVariables > 2].
```

Code



...

```
"Show the difference between the number of attributes and the number of methods"  
b := RTDoubleBarBuilder new.  
b points: data.  
b bottomValue: #numberOfMethods.  
b topValue: #numberOfVariables.  
b build.  
b view canvas buildMorph|
```

Code



...



Restarted from scratch with Bloc and TxText



Bloc

TxText

Under rapid development

Under development

Bloc

TxText

Under rapid development

Under development

Lots of Bugs

Lots of Bugs

Bloc

TxText

Under rapid development

Under development

Lots of Bugs

Lots of Bugs

Little documentation

Little documentation

## Bloc

Under rapid development

Lots of Bugs

Little documentation

Only basic features

## TxText

Under development

Lots of Bugs

Little documentation

Only basic features

## Bloc

Under rapid development

Lots of Bugs

Little documentation

Only basic features

Weak tool support

## TxText

Under development

Lots of Bugs

Little documentation

Only basic features

# Future work

Fight with Bloc and TxText

Add more types of Snippets

Save Snippets as methods

Display code using Snippets

THE END