

About Programming, Game Theory, Numbers and AI

(Original Queries without Processing)

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Foreword

write a foreword for the book About Programming, Game Theory, Numbers and AI

About the Author

write something about Meta AI's Large Language Model 7B

About Programming

write something about Programming in general

Programming in our daily life

write something about Programming in our daily life

in context: continue with additional aspects about Programming in our daily life

in context: continue with additional aspects about Programming in our daily life

Programming in mathematics

write something about Programming in mathematics

in context: continue with additional aspects about Programming in mathematics

in context: continue with additional aspects about Programming in mathematics

Programming in engineering

write something about Programming in engineering

in context: continue with additional aspects about Programming in engineering

in context: continue with additional aspects about Programming in engineering

Programming in modern art

write something about Programming in modern art

in context: continue with additional aspects about Programming in modern art

in context: continue with additional aspects about Programming in modern art

About Game Theory

write something about Game Theory in general

Game Theory in our daily life

write something about Game Theory in our daily life

in context: continue with additional aspects about Game Theory in our daily life

in context: continue with additional aspects about Game Theory in our daily life

Game Theory in mathematics

write something about Game Theory in mathematics

in context: continue with additional aspects about Game Theory in mathematics

in context: continue with additional aspects about Game Theory in mathematics

Game Theory in engineering

write something about Game Theory in engineering

in context: continue with additional aspects about Game Theory in engineering

in context: continue with additional aspects about Game Theory in engineering

Game Theory in modern art

write something about Game Theory in modern art

in context: continue with additional aspects about Game Theory in modern art

in context: continue with additional aspects about Game Theory in modern art

About Numbers

write something about Numbers in general

Numbers in our daily life

write something about Numbers in our daily life

in context: continue with additional aspects about Numbers in our daily life

in context: continue with additional aspects about Numbers in our daily life

Numbers in mathematics

write something about Numbers in mathematics

in context: continue with additional aspects about Numbers in mathematics

in context: continue with additional aspects about Numbers in mathematics

Numbers in engineering

write something about Numbers in engineering

in context: continue with additional aspects about Numbers in engineering

in context: continue with additional aspects about Numbers in engineering

Numbers in modern art

write something about Numbers in modern art

in context: continue with additional aspects about Numbers in modern art

in context: continue with additional aspects about Numbers in modern art

About Artificial Intelligence

write something about Artificial Intelligence in general

Artificial Intelligence in our daily life

write something about Artificial Intelligence in our daily life

in context: continue with additional aspects about Artificial Intelligence in our daily life

in context: continue with additional aspects about Artificial Intelligence in our daily life

Artificial Intelligence in mathematics

write something about Artificial Intelligence in mathematics

in context: continue with additional aspects about Artificial Intelligence in mathematics

in context: continue with additional aspects about Artificial Intelligence in mathematics

Artificial Intelligence in engineering

write something about Artificial Intelligence in engineering

in context: continue with additional aspects about Artificial Intelligence in engineering

in context: continue with additional aspects about Artificial Intelligence in engineering

Artificial Intelligence in modern art

write something about Artificial Intelligence in modern art

in context: continue with additional aspects about Artificial Intelligence in modern art

in context: continue with additional aspects about Artificial Intelligence in modern art

Relations

write something about Relations between the terms Programming, Game Theory, Numbers and Artificial Intelligence in general

Relations between Programming and Game Theory

write something about Relations between Programming and Game Theory

in context: continue with additional aspects about Relations between Programming and Game Theory

Relations between Programming and Numbers

write something about Relations between Programming and Numbers

in context: continue with additional aspects about Relations between Programming and Numbers

Relations between Programming and Artificial Intelligence

write something about Relations between Programming and Artificial Intelligence

in context: continue with additional aspects about Relations between Programming and Artificial Intelligence

Relations between Game Theory and Numbers

write something about Relations between Game Theory and Numbers

in context: continue with additional aspects about Relations between Game Theory and Numbers

Relations between Game Theory and Artificial Intelligence

write something about Relations between Game Theory and Artificial Intelligence

in context: continue with additional aspects about Relations between Game Theory and Artificial Intelligence

Relations between Numbers and Artificial Intelligence

write something about Relations between Numbers and Artificial Intelligence

in context: continue with additional aspects about Relations between Numbers and Artificial Intelligence

Synergies

write something about Synergies between Programming, Game Theory, Numbers and Artificial Intelligence in general

Synergies between Programming and Game Theory

write something about Synergies between Programming and Game Theory

in context: continue with additional aspects about Synergies between Programming and Game Theory

Synergies between Programming and Numbers

write something about Synergies between Programming and Numbers

in context: continue with additional aspects about Synergies between Programming and Numbers

Synergies between Programming and Artificial Intelligence

write something about Synergies between Programming and Artificial Intelligence

in context: continue with additional aspects about Synergies between Programming and Artificial Intelligence

Synergies between Game Theory and Numbers

write something about Synergies between Game Theory and Numbers

in context: continue with additional aspects about Synergies between Game Theory and Numbers

Synergies between Game Theory and Artificial Intelligence

write something about Synergies between Game Theory and Artificial Intelligence

in context: continue with additional aspects about Synergies between Game Theory and Artificial Intelligence

Synergies between Numbers and Artificial Intelligence

write something about Synergies between Numbers and Artificial Intelligence

in context: continue with additional aspects about Synergies between Numbers and Artificial Intelligence

Examples

Putting together Programming and Game Theory

write an actual example of putting together Programming and Game Theory

in context: continue with additional aspects of the example about putting together Programming and Game Theory

Putting together Programming and Artificial Intelligence

write an actual example of putting together Programming and Artificial Intelligence

in context: continue with additional aspects of the example about putting together Programming and Artificial Intelligence

Putting together Game Theory and Artificial Intelligence

write an actual example of putting together Game Theory and Artificial Intelligence

in context: continue with additional aspects of the example about putting together Game Theory and Artificial Intelligence

Putting together Programming, Game Theory and Artificial Intelligence

write an actual example of putting together Programming, Game Theory and Artificial Intelligence

in context: continue with additional aspects of the example about putting together Programming, Game Theory and Artificial Intelligence

Importance for a safe and sustainable Future

line out the problem of carbon energies the danger of nuclear power plants and the importance of a great switch to sustainable energies

line out the importance of Programming, Game Theory, Numbers and AI for the future of enabling sustainable energy

explain how Programming, Game Theory, Numbers and AI can improve the efficiency of power distribution network

explain how Programming, Game Theory, Numbers and AI can improve demand side management

explain how Programming, Game Theory, Numbers and AI can help to avoid peaks in power demand

line out what research, like which is done at the Institute for Automation of Complex Power-systems (ACS) can do for a better exploitation of the before mentioned Programming, Game Theory and AI Technologies in the field of sustainable energy

in context: line out how people interested in saving the world with these technologies can apply for a position at ACS

Conclusions

write final conclusions about relations and synergies between Programming, Game Theory, Numbers and AI

write final conclusions about this book's example applications driven by a combination of Programming, Game Theory, Numbers and AI

write final conclusions about how Programming, Game Theory, Numbers and AI can enable sustainable energies like shown at RWTH Institute for Automation of Complex Power Systems research

write final conclusions for the book About Programming, Game Theory, Numbers and AI

Acknowledgements

write acknowledgements for the book About Programming, Game Theory, Numbers and AI

Appendix A: Structure Code Used for Generation of Queries

File `mk_document.sh`

```
Code
. config.sh

. foreword.sh >foreword.md

TOPIC="Programming"
. about.sh >about_programming.md

TOPIC="Game Theory"
. about.sh >about_game_theory.md

TOPIC="Numbers"
. about.sh >about_numbers.md

TOPIC="Artificial Intelligence"
. about.sh >about_ai.md

. relations.sh >relations.md
. synergies.sh >synergies.md
. examples.sh >examples.md
. importance.sh >importance.md
. conclusions.sh >conclusions.md
. acknowledgements.sh >acknowledgements.md
```

File config.sh

```
Code
# GENERAL OPTIONS
TECHNOLOGY="Programming, Game Theory, Numbers and AI"
TITLE="About $TECHNOLOGY"
AUTHOR="(Original Queries without Processing)"

# CHAPTER OPTIONS
CHAPTERS="foreword.md about_programming.md about_game_theory.md about_numbers.md about_ai.md relations.md
↪ synergies.md examples.md importance.md conclusions.md acknowledgements.md"

# PDF OPTIONS
FORMAT="-V documentclass=report -V eometry:margin=3.0cm -V geometry:a4paper"
# FORMAT="-V documentclass=book"
OUTFILE="AboutProgrammingDebug.pdf"

# AI OPTIONS
LLAMA_MODEL="7B"
LLAMA_OPTIONS_Q="-n 128 -c 1024 --temp 0.1 -m weights/$LLAMA_MODEL.bin --n_parts 1 --top_k 20 --top_p 0.25"
LLAMA_OPTIONS_C="-n 512 -c 1024 --temp 0.1 -m weights/$LLAMA_MODEL.bin --n_parts 1 --top_k 20 --top_p 0.25
↪ --repeat_last_n 128 --repeat_penalty 1.3"

# DEBUG OPTIONS (comment out debug for no debug)
DEBUG="1"
```

File foreword.sh

```
Code
A="./q.sh write something about Meta AI's Large Language Model $LLAMA_MODEL"
Q="./q.sh write a foreword for the book $TITLE"

echo "# Foreword"
$Q
echo

echo "## About the Author"
$A
```

File about.sh

Code

```
. qdefault.sh

echo "# About $TOPIC"
$Q in general
echo

echo "## $TOPIC in our daily life"
$Q in our daily life
echo
$C in our daily life
echo
$C in our daily life
echo

echo "## $TOPIC in mathematics"
$Q in mathematics
echo
$C in mathematics
echo
$C in mathematics
echo

echo "## $TOPIC in engeneering"
$Q in engeneering
echo
$C in engeneering
echo
$C in engeneering
echo

echo "## $TOPIC in modern art"
$Q in modern art
echo
$C in modern art
echo
$C in modern art
echo
```

File relations.sh

Code

```
TOPIC="Relations"

. qdefault.sh

echo "# $TOPIC"
$Q between the terms Programming, Game Theory, Numbers and Artificial Intelligence in general
echo

echo "## $TOPIC between Programming and Game Theory"
$Q between Programming and Game Theory
echo
$C between Programming and Game Theory
echo

echo "## $TOPIC between Programming and Numbers"
$Q between Programming and Numbers
echo
$C between Programming and Numbers
echo

echo "## $TOPIC between Programming and Artificial Intelligence"
$Q between Programming and Artificial Intelligence
echo
$C between Programming and Artificial Intelligence
echo

echo "## $TOPIC between Game Theory and Numbers"
$Q between Game Theory and Numbers
echo
$C between Game Theory and Numbers
echo

echo "## $TOPIC between Game Theory and Artificial Intelligence"
$Q between Game Theory and Artificial Intelligence
echo
$C between Game Theory and Artificial Intelligence
echo

echo "## $TOPIC between Numbers and Artificial Intelligence"
$Q between Numbers and Artificial Intelligence
echo
$C between Numbers and Artificial Intelligence
echo
```

File synergies.sh

```
TOPIC="Synergies"
. qdefault.sh

echo "# $TOPIC"
$Q between Programming, Game Theory, Numbers and Artificial Intelligence in general
echo

echo "## $TOPIC between Programming and Game Theory"
$Q between Programming and Game Theory
echo
$C between Programming and Game Theory
echo

echo "## $TOPIC between Programming and Numbers"
$Q between Programming and Numbers
echo
$C between Programming and Numbers
echo

echo "## $TOPIC between Programming and Artificial Intelligence"
$Q between Programming and Artificial Intelligence
echo
$C between Programming and Artificial Intelligence
echo

echo "## $TOPIC between Game Theory and Numbers"
$Q between Game Theory and Numbers
echo
$C between Game Theory and Numbers
echo

echo "## $TOPIC between Game Theory and Artificial Intelligence"
$Q between Game Theory and Artificial Intelligence
echo
$C between Game Theory and Artificial Intelligence
echo

echo "## $TOPIC between Numbers and Artificial Intelligence"
$Q between Numbers and Artificial Intelligence
echo
$C between Numbers and Artificial Intelligence
echo
```

File examples.sh

```
Code
Q="./q.sh write an actual example of"
C="./c.sh continue with additional aspects of the example about"

echo "# Examples"
echo

echo "## Putting together Programming and Game Theory"
$Q putting together Programming and Game Theory
echo
$C putting together Programming and Game Theory
echo

echo "## Putting together Programming and Artificial Intelligence"
$Q putting together Programming and Artificial Intelligence
echo
$C putting together Programming and Artificial Intelligence
echo

echo "## Putting together Game Theory and Artificial Intelligence"
$Q putting together Game Theory and Artificial Intelligence
echo
$C putting together Game Theory and Artificial Intelligence
echo

echo "## Putting together Programming, Game Theory and Artificial Intelligence"
$Q putting together Programming, Game Theory and Artificial Intelligence
echo
$C putting together Programming, Game Theory and Artificial Intelligence
echo
```

File importance.sh

```
Code
Q="./q.sh"
C="./c.sh"

echo "# Importance for a safe and sustainable Future"
$Q "line out the problem of carbon energies the danger of nuclear power plants and the importance of a great
↪ switch to sustainable energies"
echo
$Q "line out the importance of $TECHNOLOGY for the future of enabling sustainable energy"
echo
$Q "explain how $TECHNOLOGY can improve the efficiency of power distribution network"
echo
$Q "explain how $TECHNOLOGY can improve demand side management"
echo
$Q "explain how $TECHNOLOGY can help to avoid peaks in power demand"
echo
$Q "line out what research, like which is done at the Institute for Automation of Complex Powersystems (ACS)
↪ can do for a better exploitation of the before mentioned Programming, Game Theory and AI Technologies in
↪ the field of sustainable energy"
echo
$C "line out how people interested in saving the world with these technologies can apply for a position at ACS"
```

File conclusions.sh

```
Code
Q="./q.sh write final conclusions"

echo "# Conclusions"
$Q about relations and synergies between $TECHNOLOGY
echo
$Q about this book\'s example applications driven by a combination of $TECHNOLOGY
echo
$Q about how $TECHNOLOGY can enable sustainable energies like shown at RWTH Institute for Automation of
↪ Complex Power Systems research
echo
$Q for the book $TITLE
echo
```

File acknowledgements.sh

```
Code
Q="./q.sh write acknowledgements for the book $TITLE"

echo "# Acknowledgements"
$Q
echo
```