Evaluation Metrics for Automated Typographic Poster Generation Anonymous Authors

Example Outputs

Examples of designs evolved during the experimental stages of this work.

The conducted experiments are divided into three different stages: (S1) evolving only considering *semantic* objective; (S2) evolving only considering *aesthetic* objective; and (S3) evolving considering both objectives, with equal weight on objective evaluation.

S2

S3

Without Music, life Would Be A Mistake Without Music, life Would Be **A Mistake** Without Music, life Would Be **A Mistake**

01

Without Music, ¶life Would Be¶ A Mistake

[joy, neutral, neutral]

Without Music, life Would Be A Mistake

Without Music, life Would Be **A Mistake** Without Music, life Would Be **A Mistake**

S2

S3

A Viagem Não Acaba Nunca. Só Os Viajantes Acabam.

A Viagem Não Acaba Nunca. Só Os Viajantes Acabam. A Viagem Não Acaba Nunca. Só Os Viajantes Acabam.

02

A Viagem¶Não Acaba¶Nunca.¶ Só Os Viajantes¶Acabam.

[anticipation, neutral, neutral, neutral]

A Viagem Não Acaba Nunca. Só Os Viajantes Acabam.

A **Viagem Não Acaba Nunca.**Sá Da Viajentes

Só Os Viajantes Acabam. **Nunca. Só Os Viajantes Acabam.**

A Viagem

S2

S3

Nothing

Strengthens Authority
So Much
As Silence

NothingStrengthens Authority **So Much**As Silence

Nothing
Strengthens Authority
So Much
As Silence

03

Nothing Strengthens Authority So Much As Silence

[neutral, trust, neutral, neutral]

Nothing Strengthens Authority So Much As Silence Nothing
Strengthens Authority
So Much
As Silence

Nothing Strengthens Authority So Much As Silence

S2

S3

You Matter. You Are Loved. You Are Okay. You Matter. You Are Loved. You Are Okay. You Matter. You Are Loved. You Are Okay.

04

You Matter.¶You Are Loved.¶You Are Okay.

[neutral, joy, neutral]

You Matter. You Are Loved. You Are Okay. **You Matter.** You Are Loved. **You Are Okay**.

You Matter.
You Are Loved.
You Are Okay.

S2

S3

System Change

Not
Climate Change!

System Change
Not
Climate Changel

System ChangeNot

Climate Change!

05

System Change, ¶Not¶ Climate Change!

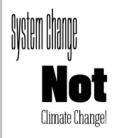
[neutral, neutral, neutral]

System Change

Not

Climate Changel

Not Climate Change!



S2

S3

The Climate is Changing; Why Aren't We?

The Climate is Changing; Why Aren't We?

The Climate is Changing; Why Aren't We?

06

The Climate¶is Changing;¶ Why Aren't We?

[neutral, neutral, neutral]

The Climate is Changing; Why Aren't We?

The Climate is Changing;
Why Aren't We?

The Climate is Changing; Why Aren't We?

S2

S3

WE NEED HUMAN

CHANGE **NOT**

CLIMATE CHANGE

THE WORLD

NEEDS US

WE NEED HUMAN CHANGE NOT

CLIMATE CHANGE

THE WORLD NEEDS US

WE NEED
HUMAN
CHANGE
NOT
CLIMATE CHANGE

THE WORLD **NEEDS US**

07

WE NEED¶HUMAN¶CHANGE¶ NOT¶CLIMATE CHANGE¶¶ THE WORLD¶NEEDS US

[neutral, neutral, neutral, neutral, neutral, neutral]

WE NEED HUMAN CHANGE

NOT

CLIMATE CHANGE

THE WORLD
NEEDS US

WE NEED
HUMAN
CHANGE
NOT
CLIMATE CHANGE

THE WORLD **NEEDS US**

WE NEED
HUMAN
CHANGE
NOT
CLIMATE CHANGE

THE WORLD

NEEDS US

S2

S3

There Is Still Time!

There IsStill Time!

There Is Still Time!

08

There Is¶Still Time!

[neutral, anticipation]

There Is Still Time!

There Is Still Time!

There Is Still Time!

S2

S3

La LutteContinue

La Lutte

09

La Lutte¶Continue

[fear, neutral]

La Lutte

La Lutte Continue



S2

S3

La Beuté Est Dans la Rue La Beuté Est Dans la Rue

La Beuté **Est Dans** la Rue

10

La Beuté¶Est Dans¶la Rue

[neutral, neutral]

La Beuté Est Dans **la Rue**

La Beuté Est Dans la Rue La Beuté **Est Dans la Rue**

S2

S3

Amerika is Devouring its Children

Amerika is **Devouring** its Children

Amerika is Devouring its Children

11

Amerika is¶Devouring¶ its Children

[neutral, neutral, anticipation]

Amerika is **Devouring**

Amerika is **Devouring**Its Children

Amerika is
Devouring
its Children

S2

S3

People and Planet

Not Pipelines and Prisons

People and Planet

Not Pipelines and Prisons

People and Planet

Not Pipelines

and Prisons

12

People¶and Planet¶¶ Not Pipelines¶and Prisons

[neutral, neutral, neutral, fear]

and Planet

Not Pipelines

and Prisons

People and Planet

Not Pipelines and Prisons

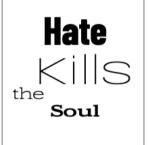
People and Planet

Not Pipelines

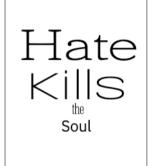
and Prisons

S2

S3







13

Hate¶Kills¶the¶Soul

[anger, fear, neutral, neutral]



Hate Kills the Soul



S2

S3

End Police Brutality

Black Lives Matter

No Justice

No Peace

End Police Brutality

Black Lives **Matter**

> No Justice No Peace

End Police

Brutality

Black Lives Matter

> No Justice **No Peace**

14

End Police¶Brutality¶¶
Black Lives¶Matter¶¶
No Justice¶No Peace

[anger, fear, neutral, neutral, neutral, neutral, fear]

End Police Brutality

Black Lives Matter

No Justice

No Peace

End Police Brutality

Black Lives Matter

> No Justice No Peace

End Police

Brutality

Black Lives Matter

No Justice No Peace

S2

S3

Everything
Will Change
Everyone
Can Change

Everything
Will Change
Everyone
Can Change

Everything
Will Change
Everyone
Can Change

15

Everything¶Will Change¶ Everyone¶Can Change

[neutral, neutral, neutral]

Everything
Will Change
Everyone
Can Change

Everything
Will Change
Everyone
Can Change

Everything
Will Change
Everyone
Can Change

S1 S2 S3

Freedom

Freedom
Yeah! Right!
Freedom
Yeah! Right!
Freedom
Yeah! Right!
Freedom
Yeah! Right!

Yeah! Right!
Freedom
Yeah! Right!
Freedom
Yeah! Right!
Freedom
Yeah! Right!

Freedom
Yeah! Right!
Freedom
Yeah! Right!
Freedom
Yeah! Right!
Freedom
Yeah! Right!

16

Freedom¶Yeah! Right!¶Freedom¶Yeah! Right!¶Freedom¶Yeah! Right!¶Freedom¶Yeah! Right!

[trust, neutral, trust, neutral, trust, neutral, trust, neutral]

Freedom Yeah! Right! Freedom Yeah! Right!

Freedom

Yeah! Right!

Freedom Yeah! Right! Freedom

Yeah! Right! Freedom Yeah! Right! Freedom

Yeah! Right! Freedom Yeah! Right! Freedom Yeah! Right!

Freedom

Freedom

Yeah! Right!

Freedom

Yeah! Right!

Yeah! Right!

S2

S3

Be On The Right Side Of History **Be On**The Right **Side Of History**

Be On The Right Side Of History

17

Be On¶The Right¶ Side Of¶History

[neutral, neutral, neutral]

Be On
The Right
Side Of
History

Be On
The Right
Side Of
History

Be OnThe Right **Side Of History**

S2

S3

Girls Just Want To Have **Undamenta**

Rights

Girls Just Want To Have Fundamental Rights Girls Just **Want To Have** Fundamental **Rights**

18

Girls Just¶Want To Have¶ Fundamental¶Rights

[neutral, neutral, trust, neutral]

Girls Just Want To Have Fundamental Rights

Girls Just Want To Have Fundamental Rights

Girls Just Want To Have **Fundamenta**

Rights

S2

S3

Educação Não É Gasto, É Investimento! Educação Não É Gasto, É Investimentol **Educação** N**ão É Gasto**, É Investimentol

19

Educação¶Não É Gasto,¶ É Investimento!

[neutral, neutral, neutral]

Educação Não É Gasto, É Investimentol Educação Não É Gasto, **É Investimento!** Educação Não É Gasto, É Investimento!

S2

S3

GOING TO BE A GOOD DAY!

TODAY IS

GOING TO

BE A

GOOD DAY!

TODAY IS

GOING TO

BE A

GOOD DAY!

20

TODAY IS¶GOING TO¶ BE A¶GOOD DAY!

[neutral, neutral, neutral, trust]

TODAY IS GOING TO BE A

TODAY IS COING TO BE A GOOD DAY!

TODAY IS
GOING TO
BE A

GOOD DAY!

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Anonymous Authors

2023