

Test Column Span Features

Test de Column Span y TOC

Este documento prueba las nuevas funcionalidades:

1. **Paper y presentation sin TOC**
2. **Parámetro column_span en add_image, add_plot, add_table, add_colored_table**
3. **Ajuste automático de ancho** basado en columnas del documento

```
import matplotlib.pyplot as plt
import pandas as pd
import numpy as np
from ePy_docs import DocumentWriter

# Crear datos de prueba
np.random.seed(42)
data = {
    'Material': ['Steel', 'Aluminum', 'Concrete', 'Wood', 'Plastic'],
    'Stress_MPa': [250, 180, 30, 25, 15],
    'Strain': [0.002, 0.003, 0.001, 0.004, 0.008],
    'Young_Modulus_GPa': [200, 70, 25, 12, 3]
}
df = pd.DataFrame(data)

# Test con paper (sin TOC)
writer_paper = DocumentWriter("paper", layout_style="academic")

writer_paper.add_h1("Test Paper Document - Sin TOC")
writer_paper.add_text("Este documento tipo paper NO debe mostrar tabla de contenidos.")

# Test con presentation (sin TOC)
writer_presentation = DocumentWriter("presentation", layout_style="minimal")
```

```

writer_presentation.add_h1("Test Presentation - Sin TOC")
writer_presentation.add_text("Este documento tipo presentation NO debe mostrar tabla de contenidos.")

# Test con report (con TOC - comportamiento normal)
writer_report = DocumentWriter("report", layout_style="classic")
writer_report.add_h1("Test Report - Con TOC")
writer_report.add_text("Este documento tipo report SÍ debe mostrar tabla de contenidos.")

print(" Documentos creados sin errores")

```

Documentos creados sin errores

```

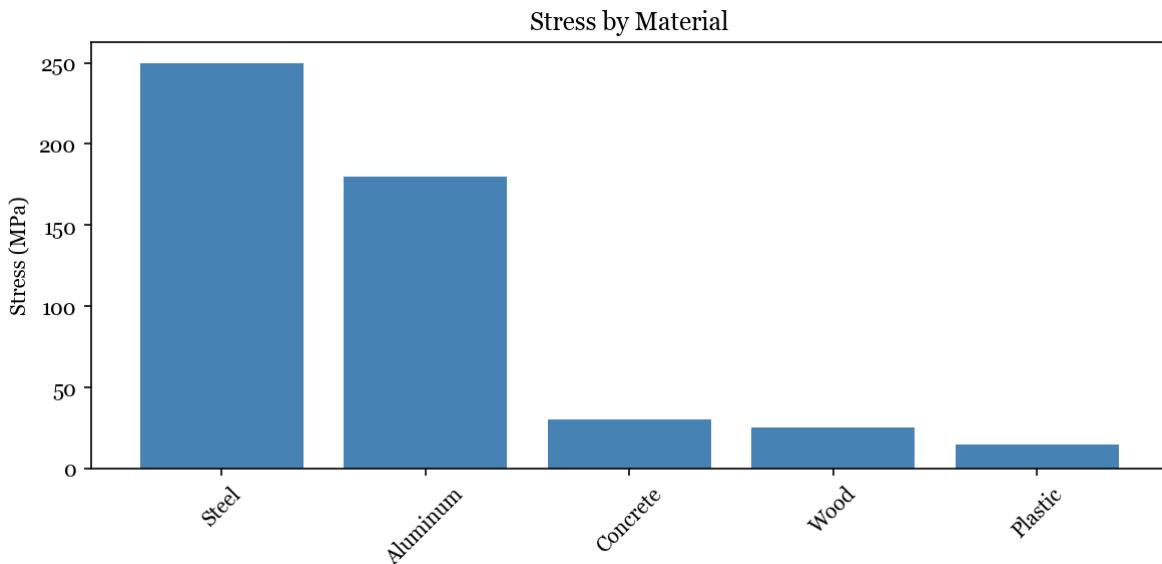
# Test column_span en add_image
fig, ax = plt.subplots(figsize=(8, 4))
ax.bar(df['Material'], df['Stress_MPa'], color='steelblue')
ax.set_title('Stress by Material')
ax.set_ylabel('Stress (MPa)')
plt.xticks(rotation=45)
plt.tight_layout()

# Guardar figura temporal para test de add_image
plt.savefig('temp_figure.png', dpi=150, bbox_inches='tight')
plt.close()

# Test add_image con column_span
writer_report.add_h2("Test add_image con column_span")
writer_report.add_image("temp_figure.png",
                       caption="Imagen con column_span=1.0 (una columna)",
                       column_span=1.0)

print(" add_image con column_span funcionando")

```



```
add_image con column_span funcionando
```

```
# Test add_plot con column_span
fig, ax = plt.subplots(figsize=(6, 4))
materials = df['Material']
stress = df['Stress_MPa']
strain = df['Strain']

ax.scatter(strain, stress, s=100, alpha=0.7, c='red')
ax.set_xlabel('Strain')
ax.set_ylabel('Stress (MPa)')
ax.set_title('Stress vs Strain')

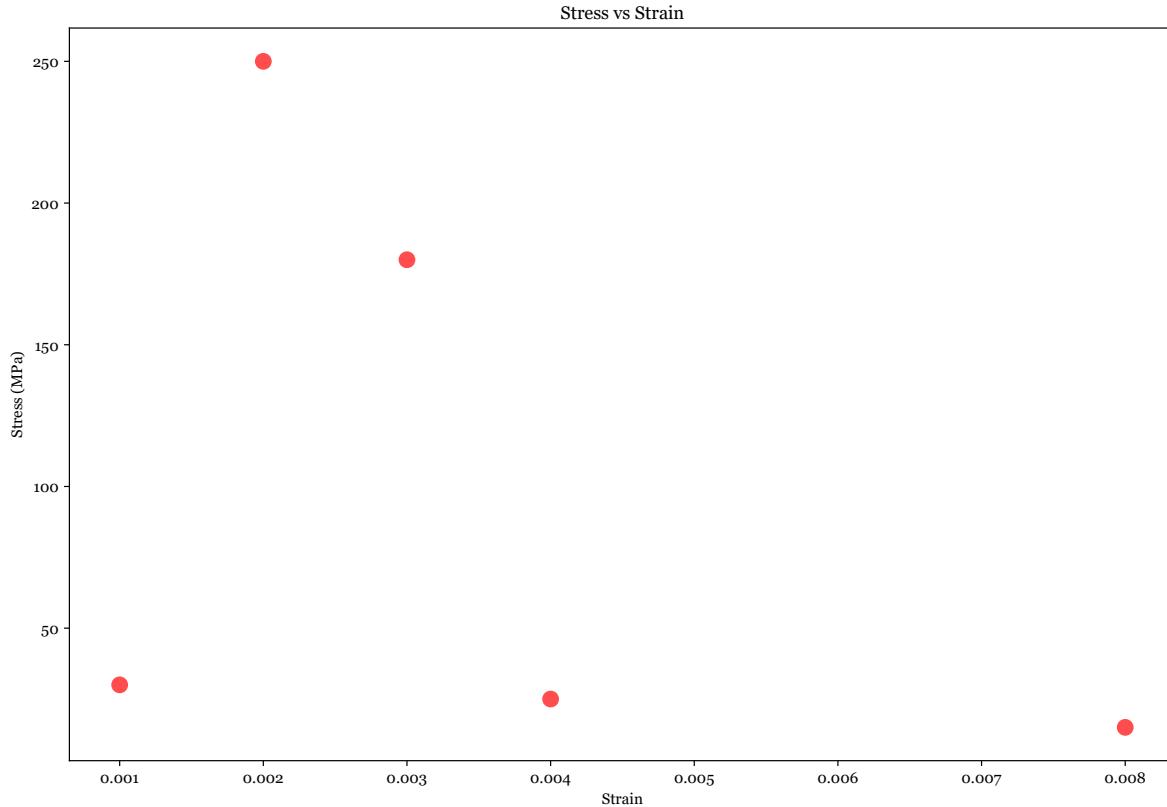
# Test add_plot con column_span - debe ajustar automáticamente el tamaño
writer_report.add_h2("Test add_plot con column_span")
writer_report.add_plot(fig,
                      title="Plot con column_span=2.0 (dos columnas)",
                      caption="El gráfico se debe ajustar automáticamente al ancho",
                      column_span=2.0)

print(" add_plot con column_span funcionando")
```

```
INFO:fontTools.subset:maxp pruned
INFO:fontTools.subset:LTSI dropped
```

```
INFO:fontTools.subset:cmap pruned
INFO:fontTools.subset:post pruned
INFO:fontTools.subset:meta dropped
INFO:fontTools.subset:DSIG dropped
INFO:fontTools.subset:GPOS pruned
INFO:fontTools.subset:GSUB pruned
INFO:fontTools.subset:glyf pruned
INFO:fontTools.subset:Added gid0 to subset
INFO:fontTools.subset:Added first four glyphs to subset
INFO:fontTools.subset:Closing glyph list over 'GSUB': 27 glyphs before
INFO:fontTools.subset:Glyph names: ['.notdef', 'M', 'P', 'S', 'a', 'e', 'eight', 'five', 'fo
INFO:fontTools.subset:Glyph IDs: [0, 1, 2, 3, 11, 12, 17, 19, 20, 21, 22, 23, 24, 25, 26, 2
INFO:fontTools.subset:Closed glyph list over 'GSUB': 45 glyphs after
INFO:fontTools.subset:Glyph names: ['.notdef', 'M', 'P', 'S', 'a', 'e', 'eight', 'five', 'fo
INFO:fontTools.subset:Glyph IDs: [0, 1, 2, 3, 11, 12, 17, 19, 20, 21, 22, 23, 24, 25, 26, 2
INFO:fontTools.subset:Closing glyph list over 'glyf': 45 glyphs before
INFO:fontTools.subset:Glyph names: ['.notdef', 'M', 'P', 'S', 'a', 'e', 'eight', 'five', 'fo
INFO:fontTools.subset:Glyph IDs: [0, 1, 2, 3, 11, 12, 17, 19, 20, 21, 22, 23, 24, 25, 26, 2
INFO:fontTools.subset:Closed glyph list over 'glyf': 45 glyphs after
INFO:fontTools.subset:Glyph names: ['.notdef', 'M', 'P', 'S', 'a', 'e', 'eight', 'five', 'fo
INFO:fontTools.subset:Glyph IDs: [0, 1, 2, 3, 11, 12, 17, 19, 20, 21, 22, 23, 24, 25, 26, 2
INFO:fontTools.subset:Retaining 45 glyphs
INFO:fontTools.subset:head subsetting not needed
INFO:fontTools.subset:hhea subsetting not needed
INFO:fontTools.subset:maxp subsetting not needed
INFO:fontTools.subset:OS/2 subsetting not needed
INFO:fontTools.subset:hmtx subsetted
INFO:fontTools.subset:VDMX subsetting not needed
INFO:fontTools.subset:hdmx subsetted
INFO:fontTools.subset:cmap subsetted
INFO:fontTools.subset:fpgm subsetting not needed
INFO:fontTools.subset:prep subsetting not needed
INFO:fontTools.subset:cvt subsetting not needed
INFO:fontTools.subset:loca subsetting not needed
INFO:fontTools.subset:post subsetted
INFO:fontTools.subset:gasp subsetting not needed
INFO:fontTools.subset:GDEF subsetted
INFO:fontTools.subset:GPOS subsetted
INFO:fontTools.subset:GSUB subsetted
INFO:fontTools.subset:name subsetting not needed
INFO:fontTools.subset:glyf subsetted
INFO:fontTools.subset:head pruned
INFO:fontTools.subset:OS/2 Unicode ranges pruned: [0]
```

```
INFO:fontTools.subset:OS/2 CodePage ranges pruned: [0]
INFO:fontTools.subset:glyf pruned
INFO:fontTools.subset:GDEF pruned
INFO:fontTools.subset:GPOS pruned
INFO:fontTools.subset:GSUB pruned
INFO:fontTools.subset:name pruned
```



```
add_plot con column_span funcionando
```

```
# Test add_table con column_span
writer_report.add_h2("Test add_table con column_span")
writer_report.add_table(df,
                       title="Tabla con column_span=1.5 (1.5 columnas)",
                       column_span=1.5)

print(" add_table con column_span funcionando")
```

```
add_table con column_span funcionando
```

```

# Test add_colored_table con column_span
writer_report.add_h2("Test add_colored_table con column_span")
writer_report.add_colored_table(df,
                                title="Tabla coloreada con column_span=2.0 (dos columnas)",
                                highlight_columns=['Stress_MPa', 'Young_Modulus_GPa'],
                                palette_name='blues',
                                column_span=2.0)

print(" add_colored_table con column_span funcionando")

add_colored_table con column_span funcionando

# Generar documentos
print("Generando documentos...")

try:
    writer_paper.generate("test_paper_no_toc")
    print(" Paper sin TOC generado")
except Exception as e:
    print(f" Error paper: {e}")

try:
    writer_presentation.generate("test_presentation_no_toc")
    print(" Presentation sin TOC generado")
except Exception as e:
    print(f" Error presentation: {e}")

try:
    writer_report.generate("test_report_column_span")
    print(" Report con column_span generado")
except Exception as e:
    print(f" Error report: {e}")

print(" Tests completados!")

```

Generando documentos...
Warning: Failed to render pdf: Quarto rendering failed:
pandoc
 to: latex
 output-file: Document.tex
 standalone: true

```
pdf-engine: xelatex
variables:
  graphics: true
  tables: true
  default-image-extension: pdf
  toc: false
  toc-depth: 4
  number-sections: true

metadata
  block-headings: true
  title: Document
  author: Anonymous
  lang: en
  fig-cap-location: bottom
  tbl-cap-location: top
  colorlinks: true
  crossref:
    chapters: true
    fig-labels: arabic
    tbl-labels: arabic
    eq-labels: arabic
  geometry:
    - top=1.2in
    - bottom=1.2in
    - left=1.2in
    - right=1.2in
  documentclass: article
  fontsize: 10pt
```

```
Rendering PDF
running xelatex - 1
This is XeTeX, Version 3.141592653-2.6-0.999997 (TeX Live 2025) (preloaded format=xelatex)
  restricted \write18 enabled.
entering extended mode

updating tlmgr

updating existing packages
ERROR:
compilation failed- error
Package fontspec Error:
```

```
(fontspec)
(fontspec)
(fontspec)
(fontspec)
(fontspec)
(fontspec)
(fontspec) The font "Times New Roman" cannot be found; this
may be but usually is not a fontspec bug. Either
there is a typo in the font name/file, the font is
not installed (correctly), or there is a bug in
the underlying font loading engine
(XeTeX/luaotfload).
```

For immediate help type H <return>.

...

1.105]

A font might not be found for many reasons.
Check the spelling, where the font is installed etc. etc.

When in doubt, ask someone for help!

see Document.log for more information.

```
Paper sin TOC generado
Warning: Failed to render pdf: Quarto rendering failed:
pandoc
  to: latex
  output-file: Document.tex
  standalone: true
  pdf-engine: xelatex
  variables:
    graphics: true
    tables: true
    default-image-extension: pdf
    toc: false
    toc-depth: 2
    number-sections: false

  metadata
    block-headings: true
    title: Document
    author: Anonymous
    lang: en
```

```

fig-cap-location: bottom
tbl-cap-location: top
colorlinks: false
crossref:
  chapters: false
  fig-labels: arabic
  tbl-labels: arabic
  eq-labels: arabic
geometry:
  - top=1.2in
  - bottom=1.2in
  - left=1.2in
  - right=1.2in
documentclass: beamer
fontsize: 12pt

```

Rendering PDF

running xelatex - 1

```

This is XeTeX, Version 3.141592653-2.6-0.999997 (TeX Live 2025) (preloaded format=xelatex)
  restricted \write18 enabled.
entering extended mode

```

updating tlmgr

updating existing packages

ERROR:

compilation failed- error

LaTeX Error: Option clash for package geometry.

See the LaTeX manual or LaTeX Companion for explanation.

Type H <return> for immediate help.

...

1.42 \setlength

{\emergencystretch}{3em} % prevent overfull lines

The package geometry has already been loaded with options:

[papersize={\beamer@paperwidth ,\beamer@paperheight },hmargin=1cm,vmargin=0cm,head=0.5cm,he

There has now been an attempt to load it with options

[top=1.2in,bottom=1.2in,left=1.2in,right=1.2in]

Adding the global options:

papersize={\beamer@paperwidth ,\beamer@paperheight },hmargin=1cm,vmargin=0cm,head=0.5cm,he to your \documentclass declaration may fix this.

Try typing <return> to proceed.

see Document.log for more information.

```
Presentation sin TOC generado
Warning: Failed to render pdf: Quarto rendering failed:
pandoc
  to: latex
  output-file: Document.tex
  standalone: true
  pdf-engine: xelatex
  variables:
    graphics: true
    tables: true
  default-image-extension: pdf
  toc: true
  toc-depth: 3
  number-sections: true

metadata
  block-headings: true
  title: Document
  author: Anonymous
  lang: en
  fig-cap-location: bottom
  tbl-cap-location: top
  colorlinks: true
  crossref:
    chapters: false
    fig-labels: arabic
    tbl-labels: arabic
    eq-labels: arabic
  geometry:
    - top=1.2in
    - bottom=1.2in
    - left=1.2in
    - right=1.2in
  documentclass: report
  fontsize: 11pt
```

```
Rendering PDF
running xelatex - 1
This is XeTeX, Version 3.141592653-2.6-0.999997 (TeX Live 2025) (preloaded format=xelatex)
  restricted \write18 enabled.
entering extended mode

updating tlmgr

updating existing packages
ERROR:
compilation failed- error
Package fonts spec Error:
(fontspec)           The font "Georgia" cannot be found; this may be
(fontspec)           but usually is not a fonts spec bug. Either there is
(fontspec)           a typo in the font name/file, the font is not
(fontspec)           installed (correctly), or there is a bug in the
(fontspec)           underlying font loading engine (XeTeX/luaotfload).

For immediate help type H <return>.
...
1.105 ]
```

A font might not be found for many reasons.
Check the spelling, where the font is installed etc. etc.

When in doubt, ask someone for help!

see Document.log for more information.

```
Report con column_span generado
Tests completados!
```